

**RAPORT
Z PRZEPROWADZONYCH
MODYFIKACJI SYSTEMU**

www.epodreczniki.pl

Historia zmian dokumentu

Historia zmian dokumentu			
Wersja	Data	Opis	Autor
1.0	20.11.2017	Utworzenie dokumentu	INFOMEX
1.1	22.11.2017	Wersja finalna	INFOMEX
1.2	16.02.2018	Dodanie opis realizowanych funkcjonalności: WCAG, API, CORS	INFOMEX
1.3	19.04.2018	Dodano opis implementacji KZD	INFOMEX

Historia akceptacji dokumentu

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Wersja	Data	Akceptuj cy	Organizacja
1.1	22.11.2017	Wewn trznie	INFOMEX
1.2	16.02.2018	Wewn trznie	INFOMEX
1.3	19.04.2018	Wewn trznie	INFOMEX
1.4			ORE

Spis treści

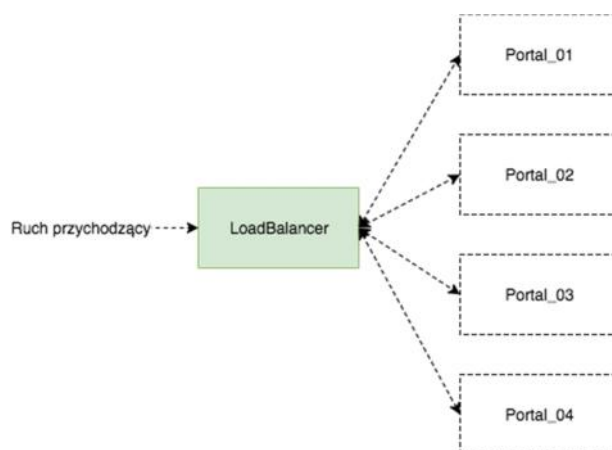
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1. Dokumentacja wykonanych prac rozwojowych z dnia 05.06.2017 r.

Niniejszy punkt zawiera specyfikację prac zrealizowanych w ramach rozwoju portalu po jego wdrożeniu, w głównej mierze prace te skupiały się na poprawkach i rozbudowach konfiguracji portalu tak aby działał w sposób efektywny i był uzupełnieniem braków wiedzy i dokumentacji z zakresu samego wdrożenia.

1.1. Zaprojektowanie i skonfigurowanie od podstaw LoadBalancera celem skutecznego rozkładu ruchu na poszczególne serwery portalu.

W ramach tego zadania Wykonawca Wykonał konfigurację LoadBalancera w postaci dodatkowej wirtualnej maszyny, która weszła w skład infrastruktury portalu i jej zadaniem jest przyjmowanie ruchu przychodzącego z sieci Internet oraz rozkładanie go po czterech dostępnych serwerach aplikacyjnych portalu zgodnie z poniższym schematem:



Konfiguracja rozwiązania znajduje się w poniższym dokumencie:

```
global
    log /dev/log local0

    chroot /var/lib/haproxy
    stats socket /run/haproxy/admin.sock mode 660 level admin
    stats timeout 30s
    daemon

# transparent proxy wymaga roota
# user haproxy
# group haproxy

# SSL CIPHERS
ca-base /etc/ssl/certs
crt-base /etc/ssl/private
ssl-default-bind-ciphers
ECDH+AESGCM:DH+AESGCM:ECDH+AES256:DH+AES256:ECDH+AES128:D
```

```

H+AES:ECDH+3DES:DH+3DES:RSA+AESGCM:RSA+AES:RSA+3DES:!aNULL:
!MD5:!DSS
    ssl-default-bind-options no-sslv3

defaults
    log      global
    mode     http
    option   httplog
    option   dontlognull
    timeout  connect      5000
    timeout  client        50000
    timeout  server        50000
    errorfile 400 /etc/haproxy/errors/400.http
    errorfile 403 /etc/haproxy/errors/403.http
    errorfile 408 /etc/haproxy/errors/408.http
    errorfile 500 /etc/haproxy/errors/500.http
    errorfile 502 /etc/haproxy/errors/502.http
    errorfile 503 /etc/haproxy/errors/503.http
    errorfile 504 /etc/haproxy/errors/504.http

##
## statystyki
##

listen ore-stats.epodreczniki.pl
    bind 91.224.214.98:8000 transparent
    mode http
    stats uri /haproxy?stats

##
## epodreczniki.pl - glowna strona portalu
##

frontend front-epodreczniki.pl
    bind 91.224.214.99:80 transparent
    bind 91.224.214.99:443 transparent ssl crt
/etc/haproxy/certs/wildcard.epodreczniki.pl.pem # CRT
    http-response add-header Access-Control-Allow-Origin %[capture.req.hdr(0)] if
{ capture.req.hdr(0) -m found } # CORS
    mode http

    ## redirect auth to ssl
    acl is_user.epodreczniki.pl  hdr(host) -i user.epodreczniki.pl
    acl is_auth_login            path_beg -i /auth/login
    redirect scheme https if is_user.epodreczniki.pl is_auth_login !{ ssl_fc }

    ## default backend
    default_backend back-epodreczniki.pl

# Backendy z healthcheckami

```

```
backend back-epodreczniki.pl
    source 0.0.0.0 usesrc clientip
    option httpclose
    option forwardfor
    balance roundrobin

    server app1 10.90.54.201:80 check fall 3 rise 2
    server app2 10.90.54.202:80 check fall 3 rise 2
    server app3 10.90.54.203:80 check fall 3 rise 2

##
## epodreczniki.pl - internal proxy for portal
##
listen front-int-epodreczniki.pl
    bind 10.90.54.200:80
    balance roundrobin
    mode http
    option forwardfor

    server app1 10.90.54.201:80 check fall 3 rise 2
    server app2 10.90.54.202:80 check fall 3 rise 2
    server app3 10.90.54.203:80 check fall 3 rise 2

frontend front-av.epodreczniki.pl
    bind 91.224.214.100:80 transparent
    bind 91.224.214.100:443 transparent ssl crt
/etc/haproxy/certs/wildcard.epodreczniki.pl.pem
    mode http
    capture request header origin len 128
    http-request set-header EP-CDN-REQ AV

acl repo_api url_beg /RepApi
acl ore_allowed_net src 10.90.54.0/24

acl host_av1 hdr(host) -i av1.epodreczniki.pl
acl host_av2 hdr(host) -i av2.epodreczniki.pl
acl host_av3 hdr(host) -i av3.epodreczniki.pl
acl host_av4 hdr(host) -i av4.epodreczniki.pl
acl host_av5 hdr(host) -i av5.epodreczniki.pl
acl host_av6 hdr(host) -i av6.epodreczniki.pl

acl host_av1_get url_end &sn=1
acl host_av2_get url_end &sn=2
acl host_av3_get url_end &sn=3
acl host_av4_get url_end &sn=4
acl host_av5_get url_end &sn=5
acl host_av6_get url_end &sn=6
```

```
block if repo_api !ore_allowed_net
```

```
use_backend back-av1.epodreczniki.pl if host_av1 or host_av1_get  
use_backend back-av2.epodreczniki.pl if host_av2 or host_av2_get  
use_backend back-av3.epodreczniki.pl if host_av3 or host_av3_get  
use_backend back-av4.epodreczniki.pl if host_av4 or host_av4_get  
use_backend back-av5.epodreczniki.pl if host_av5 or host_av5_get  
use_backend back-av6.epodreczniki.pl if host_av6 or host_av6_get
```

```
default_backend back-av.epodreczniki.pl
```

```
backend back-av.epodreczniki.pl
```

```
source 0.0.0.0 usesrc clientip  
option httpclose  
option forwardfor  
balance source  
server av.01 10.90.54.11:80 check  
server av.02 10.90.54.12:80 check  
server av.03 10.90.54.13:80 check  
server av.04 10.90.54.14:80 check  
server av.05 10.90.54.15:80 check  
server av.06 10.90.54.16:80 check
```

```
backend back-av1.epodreczniki.pl
```

```
source 0.0.0.0 usesrc clientip  
option httpclose  
option forwardfor  
balance roundrobin  
server av.01 10.90.54.11:80 check
```

```
backend back-av2.epodreczniki.pl
```

```
source 0.0.0.0 usesrc clientip  
option httpclose  
option forwardfor  
balance roundrobin  
server av.02 10.90.54.12:80 check
```

```
backend back-av3.epodreczniki.pl
```

```
source 0.0.0.0 usesrc clientip  
option httpclose  
option forwardfor  
balance roundrobin  
server av.03 10.90.54.13:80 check
```

```
backend back-av4.epodreczniki.pl
```

```
source 0.0.0.0 usesrc clientip  
option httpclose  
option forwardfor  
balance roundrobin
```

```
server av.04 10.90.54.14:80 check

backend back-av5.epodreczniki.pl
source 0.0.0.0 usesrc clientip
option httpclose
option forwardfor
balance roundrobin
server av.04 10.90.54.15:80 check

backend back-av6.epodreczniki.pl
source 0.0.0.0 usesrc clientip
option httpclose
option forwardfor
balance roundrobin
server av.04 10.90.54.16:80 check

##
## rt.epodreczniki.pl po SSL i HTTP
##
frontend rt.epodreczniki.pl-ssl
bind 91.224.214.101:443 transparent
option tcplog
mode tcp
default_backend rt-ssl

backend rt-ssl
source 0.0.0.0 usesrc clientip
mode tcp
balance roundrobin
option ssl-hello-chk
server rt.31 10.90.54.31:443 check

frontend rt.epodreczniki.pl-http
bind 91.224.214.101:80 transparent
mode http
default_backend rt-http

backend rt-http
source 0.0.0.0 usesrc clientip
option httpclose
option forwardfor
balance roundrobin
server rt.31 10.90.54.31:80 check

##
## av.epo.pl lokalnie
##
```



```
frontend front-av.epo.pl
  bind 10.90.54.250:80 #transparent
  mode http
  stats enable
  stats uri /haproxy?stats

  default_backend back-av.epo.pl

backend back-av.epo.pl
  option httpclose
  option forwardfor
  balance roundrobin
  server av.epo.pl.01 10.90.54.11:80 check
  server av.epo.pl.02 10.90.54.12:80 check
  server av.epo.pl.03 10.90.54.13:80 check
  server av.epo.pl.04 10.90.54.14:80 check
  server av.epo.pl.05 10.90.54.15:80 check
  server av.epo.pl.06 10.90.54.16:80 check
```

1.2. Modyfikacja sposobu uruchomienia usług na „systemd” w celu poprawienia stabilności pracy portalu.

Podczas prac wdrożeniowych Wykonawca stwierdził, iż dostarczone przez Zamawiającego skrypty startowe portalu uruchamiają jego usługi w tzw. „tle”, co w przypadku awarii lub zatrzymania usługi powodowało problemy z analizą logów i ustaleniem przyczyny powstania awarii. Ponadto, wprowadzenie „systemd” pozwala bezpiecznie resetować maszyny z gwarancją, że wszystkie usługi portalu zostaną uruchamiane podczas startu systemu operacyjnego. Szczegóły konfiguracji znajdują się w punkcie 1.3.

1.3. Modyfikacja portalu, aby nie pracował w trybie „DEBUG”

Dołączony przez Zamawiającego portal, pracował w trybie DEBUG, oznacza to, iż pracował w trybie deweloperskim, nie produkcyjnym, system był niepotrzebnie obciążony zadaniami związanymi z tym trybem, a w przypadku błędów wyświetlał w przeglądarce wiele wiadomości z punktu widzenia bezpieczeństwa portalu informacji. Przekonfigurowanie portalu do działania w trybie RELEASE, spowodowało, iż zaczął działać wydajniej i wiadomości teraz kierowane do logów aplikacji, a nie wyświetlane w przeglądarce użytkownikom zewnętrznym.

Szczegóły konfiguracji poniżej:

```
upstream django {
  server 127.0.0.1:8000;
}
```

```
##
## epodreczniki.pl
##
server {
    listen 80;
    server_name epodreczniki.pl www.epodreczniki.pl;

    access_log /var/log/nginx/epodreczniki.pl_access.log;
    error_log /var/log/nginx/epodreczniki.pl_error.log;

    location /portal/begin {
        root /opt/epodreczniki/epodreczniki-portal/local/media;
#       add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
    }

    location / {
        more_set_headers 'Access-Control-Allow-Origin: *';
        client_body_timeout 300s;
        proxy_connect_timeout 300s;
        proxy_send_timeout 500s;
        proxy_set_header    Host www.epodreczniki.pl;
        #uwsgi_read_timeout 500;

        proxy_pass          http://django;
    }
}

##
## api.epodreczniki.pl
##
server {
    listen 80;
    server_name api.epodreczniki.pl www.api.epodreczniki.pl;

    access_log /var/log/nginx/api.epodreczniki.pl_access.log;
    error_log /var/log/nginx/api.epodreczniki.pl_error.log;

    location / {
#       add_header    Access-Control-Allow-Origin *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_set_header Host api.epodreczniki.pl;
        proxy_pass      http://django;
    }
}

##
## edit.epodreczniki.pl
```

```

##
server {
    listen 80;
    server_name edit.epodreczniki.pl www.edit.epodreczniki.pl;
    access_log /var/log/nginx/edit.epodreczniki.pl_access.log;
    error_log /var/log/nginx/edit.epodreczniki.pl_error.log;

    location / {
        # add_header 'Access-Control-Allow-Origin' *;
        proxy_set_header Host edit.epodreczniki.pl;
        proxy_pass http://django;
    }
}

##
## preview.epodreczniki.pl
##
server {
    listen 80;
    server_name preview.epodreczniki.pl www.preview.epodreczniki.pl;

    access_log /var/log/nginx/preview.epodreczniki.pl_access.log;
    error_log /var/log/nginx/preview.epodreczniki.pl_error.log;

    proxy_send_timeout 300s;
    proxy_connect_timeout 300s;
    proxy_read_timeout 500s;

    location / {
        proxy_set_header Host preview.epodreczniki.pl;
        #more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_pass http://django;
    }
}

##
## static.epodreczniki.pl
##
server {
    listen 80;
    server_name www.static.epodreczniki.pl static.epodreczniki.pl;

    access_log /var/log/nginx/static.epodreczniki.pl_access.log;
    error_log /var/log/nginx/static.epodreczniki.pl_error.log;

    location /portal {
        # add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
    }
}

```

```

    alias    /opt/epodreczniki/epodreczniki-portal/portal/collected-static;
}

location /portal/other {
#   add_header 'Access-Control-Allow-Origin' *;
    more_set_headers 'Access-Control-Allow-Origin: *';
    alias    /opt/epodreczniki/epodreczniki-portal/portal/static/other;
}

location / {
    #add_header    'Access-Control-Allow-Origin' *;
    more_set_headers 'Access-Control-Allow-Origin: *';
    proxy_set_header Host static.epodreczniki.pl;
    proxy_pass     http://django;
}
}

##
## content.epodreczniki.pl
##
server {
    listen 80;
    server_name content.epodreczniki.pl www.content.epodreczniki.pl
content.epo.pl;

    access_log /var/log/nginx/content.epodreczniki.pl_access.log;
    error_log /var/log/nginx/content.epodreczniki.pl_error.log;

    location /content {
        alias    /opt/epodreczniki/epodreczniki-portal/portal/static/repository/content;
        #add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        error_page 404 = @err404;
    }

    location /global/libraries {
        alias    /opt/epodreczniki/epodreczniki-portal/portal/static/3rdparty;
        #add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
    }

    location / {
        #add_header    'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_set_header Host content.epodreczniki.pl;
        proxy_pass     http://django;
    }

    location @err404 {
        more_set_headers 'Access-Control-Allow-Origin: *';

```

```
        return 301 http://preview.epodreczniki.pl$request_uri;
    }
}

##
## user.epodreczniki.pl
##
server {
    listen 80;
    server_name user.epodreczniki.pl www.user.epodreczniki.pl;

    access_log /var/log/nginx/user.epodreczniki.pl_access.log;
    error_log /var/log/nginx/user.epodreczniki.pl_error.log;

    location / {
        proxy_set_header Host user.epodreczniki.pl;
        proxy_pass http://django;
    }
}

##
## search.epodreczniki.pl
##
server {
    listen 80;
    server_name search.epodreczniki.pl www.search.epodreczniki.pl;

    access_log /var/log/nginx/search.epodreczniki.pl_access.log;
    error_log /var/log/nginx/search.epodreczniki.pl_error.log;

    location / {
        proxy_set_header Host search.epodreczniki.pl;
        proxy_pass http://django;
    }
}

##
## repo.epodreczniki.pl
##
server {
    listen 80;
    server_name repo.epodreczniki.pl www.repo.epodreczniki.pl;

    access_log /var/log/nginx/repo.epodreczniki.pl_access.log;
    error_log /var/log/nginx/repo.epodreczniki.pl_error.log;

    location / {
        proxy_set_header Host repo.epodreczniki.pl;
        more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_pass http://django;
    }
}
```

```

    }
}

##
## dev.epodreczniki.pl
##
#server {
#    listen 80;
#    server_name dev.epodreczniki.pl www.dev.epodreczniki.pl;
#    access_log /var/log/nginx/dev.epodreczniki.pl_access.log;
#    error_log /var/log/nginx/dev.epodreczniki.pl_error.log;
#    location / {
#        proxy_set_header Host dev.epodreczniki.pl;
#        proxy_pass http://127.0.0.1:8000;
#        add_header Access-Control-Allow-Origin *;
#    }
#}

```

1.4. Zadania związane z serwowaniem plików statycznych przez portal

Niniejszy punkt dotyczy trzech zadań zlecenia, w szczególności ci:

- J Wdrożenie GlusterFS dla systemu plików, umożliwiający szybsze hostowanie plików w klastrze dwóch maszyn
- J Rekonfiguracja portalu aby pliki statyczne były serwowane wyłącznie przez serwer www z pominięciem Django
- J Modyfikacja architektury portalu w celu zoptymalizowania generowania e-podreczników

Po realizacji czynności wdrożeniowych, okazało się, iż otrzymana konfiguracja i kody źródłowe portalu w sposób nieefektywny serwują pliki statyczne oraz generują e-podreczniki. Dodatkowo, nigdzie nie było opisane w jaki sposób poprzednio pliki statyczne były serwowane przez portal, dlatego Wykonawca samodzielnie opracował rozwiązanie gwarantujące wysoką wydajność oraz wysoką dostępność plików, w przypadku zaistnienia awarii.

W tym celu zmieniono architekturę portalu, poprzez skonfigurowanie na dwóch maszynach usługi GlusterFS, która współdzieli dostęp do przestrzeni dyskowej i odpowiedzialna jest za świadczenie usługi rozproszonego systemu plików dla portalu. Szczegóły w pliku konfiguracyjnym poniżej:

```

Volume Name: storage
Type: Replicate
Volume ID: ca65f018-4782-499c-aec5-e2c10c0fc007
Status: Started
Number of Bricks: 1 x 2 = 2
Transport-type: tcp

```

```
Bricks:
Brick1: storage1:/storage/brick0/data
Brick2: storage2:/storage/brick0/data
Options Reconfigured:
performance.readdir-ahead: on
auth.allow: 10.90.54.*
```

Wprowadzono zmiany w konfiguracji portalu tak aby serwowanie plików statycznych, odbywało się poza serwerem aplikacji Django, tak aby niepotrzebnie nie obciążać go tymi zadaniami.

Plik: epo-portal.ini.

```
[uwsgi]
chdir = /opt/epodreczniki/epodreczniki-portal/portal
home = /opt/epodreczniki/venv/
wsgi-file = wsgi.py

#virtualenv = /opt/epodreczniki/venv
#env = DJANGO_SETTINGS_MODULE=portal.settings.instances.simple

buffer-size = 387608
#listen = 4096
max-requests = 10000
processes=30
http = 127.0.0.1:8000
autoload=true
# UWSGI workers config
master = true
#die-on-term = true
harakiri = 60
vacuum = true
#workers = 20
#enable-threads = true
```

Plik: epodreczniki.conf.

```
upstream django {
    server 127.0.0.1:8000;
}

##
## epodreczniki.pl
##
server {
    listen 80;
    server_name epodreczniki.pl www.epodreczniki.pl;

    access_log /var/log/nginx/epodreczniki.pl_access.log;
```

```

error_log /var/log/nginx/epodreczniki.pl_error.log;

location /portal/begin {
    root /opt/epodreczniki/epodreczniki-portal/local/media;
#    add_header 'Access-Control-Allow-Origin' *;
    more_set_headers 'Access-Control-Allow-Origin: *';
}

location / {
    more_set_headers 'Access-Control-Allow-Origin: *';
    client_body_timeout 300s;
    proxy_connect_timeout 300s;
    proxy_send_timeout 500s;
    proxy_set_header Host www.epodreczniki.pl;
    #uwsgi_read_timeout 500;

    proxy_pass http://django;
}

##
## api.epodreczniki.pl
##
server {
    listen 80;
    server_name api.epodreczniki.pl www.api.epodreczniki.pl;

    access_log /var/log/nginx/api.epodreczniki.pl_access.log;
    error_log /var/log/nginx/api.epodreczniki.pl_error.log;

    location / {
#    add_header Access-Control-Allow-Origin *;
    more_set_headers 'Access-Control-Allow-Origin: *';
    proxy_set_header Host api.epodreczniki.pl;
    proxy_pass http://django;
    }
}

##
## edit.epodreczniki.pl
##
server {
    listen 80;
    server_name edit.epodreczniki.pl www.edit.epodreczniki.pl;
    access_log /var/log/nginx/edit.epodreczniki.pl_access.log;
    error_log /var/log/nginx/edit.epodreczniki.pl_error.log;

    location / {

```



```

#   add_header   'Access-Control-Allow-Origin' *;
    proxy_set_header Host edit.epodreczniki.pl;
    proxy_pass    http://django;
}
}

##
## preview.epodreczniki.pl
##
server {
    listen 80;
    server_name preview.epodreczniki.pl www.preview.epodreczniki.pl;

    access_log /var/log/nginx/preview.epodreczniki.pl_access.log;
    error_log /var/log/nginx/preview.epodreczniki.pl_error.log;

    proxy_send_timeout 300s;
    proxy_connect_timeout 300s;
    proxy_read_timeout 500s;

    location / {
        proxy_set_header Host preview.epodreczniki.pl;
        #more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_pass http://django;
    }
}

##
## static.epodreczniki.pl
##
server {
    listen 80;
    server_name www.static.epodreczniki.pl static.epodreczniki.pl;

    access_log /var/log/nginx/static.epodreczniki.pl_access.log;
    error_log /var/log/nginx/static.epodreczniki.pl_error.log;

    location /portal {
#   add_header   'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        alias /opt/epodreczniki/epodreczniki-portal/portal/collected-static;
    }

    location /portal/other {
#   add_header   'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        alias /opt/epodreczniki/epodreczniki-portal/portal/static/other;
    }
}

```

```

location / {
    #add_header    'Access-Control-Allow-Origin' *;
    more_set_headers 'Access-Control-Allow-Origin: *';
    proxy_set_header Host static.epodreczniki.pl;
    proxy_pass     http://django;
}
}

##
## content.epodreczniki.pl
##
server {
    listen 80;
    server_name content.epodreczniki.pl www.content.epodreczniki.pl
content.epo.pl;

    access_log /var/log/nginx/content.epodreczniki.pl_access.log;
    error_log /var/log/nginx/content.epodreczniki.pl_error.log;

    location /content {
        alias /opt/epodreczniki/epodreczniki-portal/portal/static/repository/content;
        #add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        error_page 404 = @err404;
    }

    location /global/libraries {
        alias /opt/epodreczniki/epodreczniki-portal/portal/static/3rdparty;
        #add_header 'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
    }

    location / {
        #add_header    'Access-Control-Allow-Origin' *;
        more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_set_header Host content.epodreczniki.pl;
        proxy_pass     http://django;
    }

    location @err404 {
        more_set_headers 'Access-Control-Allow-Origin: *';
        return 301 http://preview.epodreczniki.pl$request_uri;
    }
}

##
## user.epodreczniki.pl
##
server {

```

```
listen 80;
server_name user.epodreczniki.pl www.user.epodreczniki.pl;

access_log /var/log/nginx/user.epodreczniki.pl_access.log;
error_log /var/log/nginx/user.epodreczniki.pl_error.log;

location / {
    proxy_set_header Host user.epodreczniki.pl;
    proxy_pass http://django;
}
}

##
## search.epodreczniki.pl
##
server {
    listen 80;
    server_name search.epodreczniki.pl www.search.epodreczniki.pl;

    access_log /var/log/nginx/search.epodreczniki.pl_access.log;
    error_log /var/log/nginx/search.epodreczniki.pl_error.log;

    location / {
        proxy_set_header Host search.epodreczniki.pl;
        proxy_pass http://django;
    }
}

##
## repo.epodreczniki.pl
##
server {
    listen 80;
    server_name repo.epodreczniki.pl www.repo.epodreczniki.pl;

    access_log /var/log/nginx/repo.epodreczniki.pl_access.log;
    error_log /var/log/nginx/repo.epodreczniki.pl_error.log;

    location / {
        proxy_set_header Host repo.epodreczniki.pl;
        more_set_headers 'Access-Control-Allow-Origin: *';
        proxy_pass http://django;
    }
}

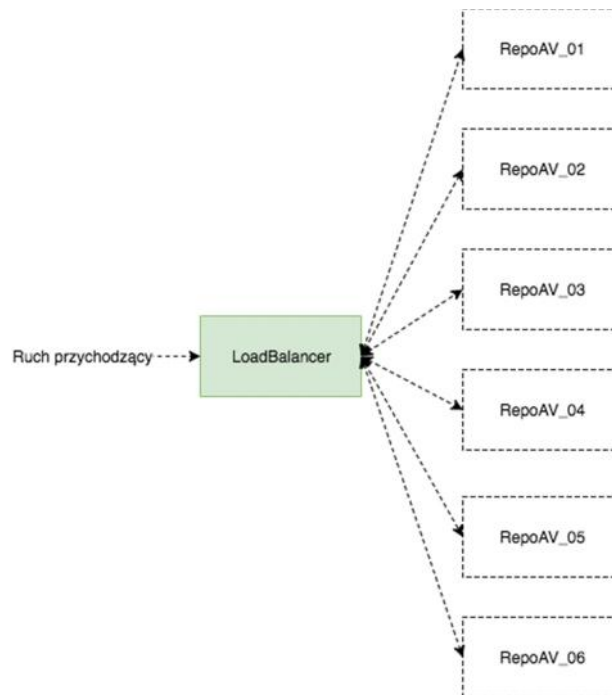
##
## dev.epodreczniki.pl
##
```

```

#server {
#   listen 80;
#   server_name dev.epodreczniki.pl www.dev.epodreczniki.pl;
#   access_log /var/log/nginx/dev.epodreczniki.pl_access.log;
#   error_log /var/log/nginx/dev.epodreczniki.pl_error.log;
#   location / {
#       proxy_set_header Host dev.epodreczniki.pl;
#       proxy_pass http://127.0.0.1:8000;
#       add_header Access-Control-Allow-Origin '*';
#   }
#}

```

Zmodyfikowano także architekturę rozwiązania poprzez wprowadzenie LoadBalancera przed serwerami RepoAV, tak aby podczas generowania epodreczników ruch był równomiernie rozkładany po wszystkich maszynach tej usługi.



1.5. Poprawka błędów RepoAV z typem zmiennej, który uniemożliwił dalsze rekodowanie treści.

W trakcie prac wdrożeniowych Wykonawca stwierdził, iż w bazie danych portalu jedna z kolumn jest w typie 32 bitowym (int32), co przy znacznej liczbie rekodowanych treści powodowało przekroczenie zasięgu tej zmiennej i zamknięcie z błędem aplikacji. Zmiana wykonana przez Wykonawcę, sprowadziła się do zdiagnozowania

przyczyny problemu i zmiany typu zmiennej na int64, co obrazuje poniższy wyciąg z repozytorium.

```

RepoAV/Manager/TaskResultProcess.cs
@@ -229,7 +229,7 @@ namespace PSNC.RepoAV.Manager
229 229
230 230     Format format = null;
231 231     format = GetFormat(task.UniqueId, out msg);
232 232     - if (format == null || format.Id != Convert.ToInt16(task.Content[RemoveKeywords.FormatId.ToString()]))
// no format in db - done
+ if (format == null || format.Id != Convert.ToInt64(task.Content[RemoveKeywords.FormatId.ToString()]))
// no format in db - done
233 233     {
234 234         m_repDbAccess.SetTaskResultProcessedFlag(task.Id, true);
235 235     }
return;

```

2. Specyfikacja funkcjonalna – funkcjonalności DAISY.

Poniżej znajduje się mockup playera daisy zaimplementowanego w portalu:



Pliki audiobooka w WOMI będą zapisane w jednym pliku ZIP, który zawiera:

-) manifest.json – opisujący typ silnika iście do audiobooka
-) [audiobook] – katalog zawierający pliki audiobooka przygotowane zgodnie ze standardem DAISY 2.02 (nazwa katalogu jest dowolna i musi być zdefiniowana w pliku manifest.json).

Plik(i)	Obowiązkowy?	Opis
manifest.json	T	Opis poniżej.
[audiobook]	T	Katalog zawierający audiobook w standardzie DAISY 2.02

Struktura audiobooka

Struktura audiobooka powinna zostać przygotowana w oparciu o standard DAISY 2.02 zgodnie z dokumentacją :

Struktura pliku manifest:

Konfiguracja WOMI następuje w pliku manifest.json zgodnie z poniższym:

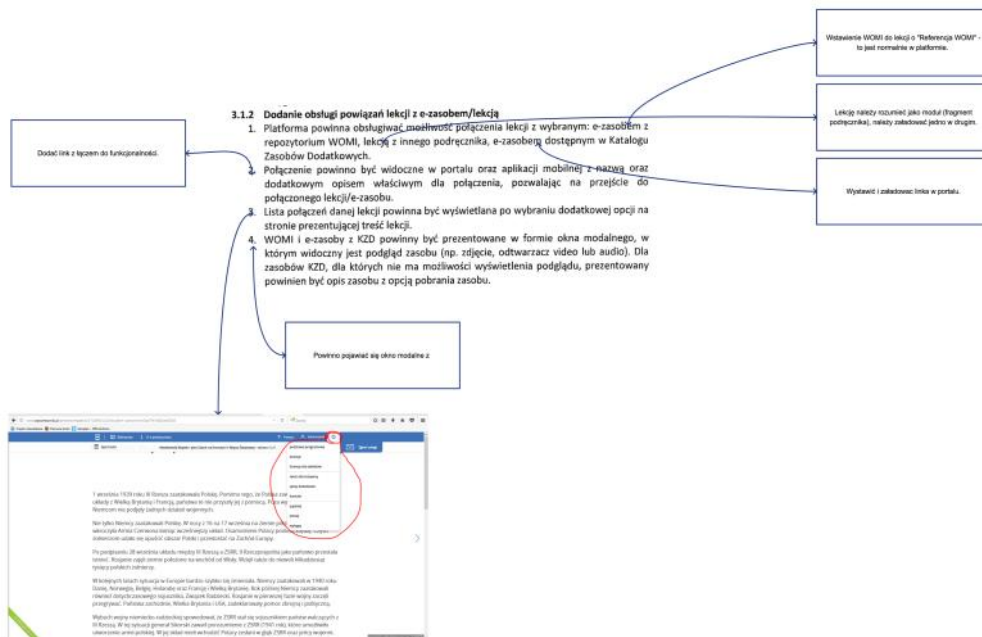
```
{  
  "folder": "audiobook", //nazwa katalog zawieraj ącego pliki audiobooka  
  "engine": "daisy_engine", //nazwa silnika WOMI  
}
```

Kody źródłowe Playera Daisy znajdują się w repozytorium GITLab Portalu, z uwagi na ich znaczną ilość nie przytaczano ich w niniejszym dokumencie.

3. Specyfikacja funkcjonalna – funkcjonalności

Linkowanie.

Poniższy schemat graficzny prezentuje projekt realizacji wymagań OPZ względem linkowania wraz z projektem umiejscowienia tych funkcjonalności w portalu.



Kody źródłowe Playera Daisy znajdują się w repozytorium GITLab Portalu, z uwagi na ich znaczną ilość nie przytaczano ich w niniejszym dokumencie.

```
var elinkbutton = $('<hr /><li><button id="show_elinks" class="show_html" title="linki portalu">linki portalu</button></li>');
```

```
$('#top-dropdown').append(elinkbutton);
```

```
$('#show_elinks').click(function (e) {
    $('#show_elinks').data('tooltipsy') &&
    $('#show_elinks').data('tooltipsy').hide();
    e.preventDefault();
    $.fancybox(_this._getWindowHref() + '/elinks', $.extend({type: 'ajax'},
    props));
    return true;
});
```

```
define('modules/utills/elink',[require, 'jquery'], function (require, $) {
```

```
$(document).ready(function () {
```

```

/*
$("div:contains('epodreczniki.pl']").each(function() {
    var txt = "";
    var title = "";
    if ($(this).parent().attr( "class" )==" && $(this).attr( "class" )=="")
    {
        txt = $(this).text();
        title = txt;
        if (txt.indexOf('http:')<0 && txt.indexOf('https:')<0)
        {
            txt='http://' +txt;
        }

        $(this).addClass('elinks');
        $(this).addClass('para');
        $(this).empty();
        $(this).append( "<a target='_blank' href='"+txt+"'>" +title+"</a><div
class='boxelink'><iframe frameBorder='0' src='"+txt+"' width = '500px' height =
'500px'></iframe></div>" );
    }
});

```

```

$("div:contains('epodreczniki.pl']").each(function() {
    var txt = "";
    var title = "";
    if ($(this).parent().attr( "class" )==" && $(this).attr( "class" )=="")
    {
        txt = $(this).text();
        title = txt;
        if (txt.indexOf('http:')<0 && txt.indexOf('https:')<0)
        {

```



```

        txt=␣http://␣+txt;
    }

    $(this).addClass('elinks');
    $(this).addClass('para');
    $(this).empty();
    var ifr = '<iframe frameborder="0" src="' +txt+'"' width = "500px" height =
"500px"></iframe>';

    $(this).append( "<a class='boxelink1' target='_blank'
href='"+txt+"'">" +title+"</a>" );

    $(".boxelink1").each(function() {
        $(this).tooltipsy({ content:ifr,offset:[10,-300]});
    });
}

});
*/
$("div:contains('epodreczniki.pl']").each(function() {
    var txt = "";
    var title = "";
    if ($(this).parent().attr( "class" )==" && $(this).attr( "class" )=="")
    {
        txt = $(this).text();
        title = txt;
        if (txt.indexOf('http:')<0 && txt.indexOf('https:')<0)
        {
            txt=␣http://␣+txt;
        }
    }

```

```

$(this).addClass('elinks');

$(this).addClass('para');

$(this).empty();

var ifr = '<iframe class="tooltip" tabindex="-1" frameBorder="0"
src="'+txt+'" ></iframe>';

$(this).append( "<div class='tooltipElink'><div class='elinks-lnk'><a
target='_blank' href='"+txt+"'>"+title+"</a></div><div>"+ifr+"</div></div>" );

$(this).closest( ".level_1" ).removeClass( "level_1" );
}

});

});

});

```

```

<xsl:template match="ep:elink">
  <xsl:element name="div">
    <xsl:attribute name="class">
      <xsl:value-of select="local-name()"/>
    </xsl:attribute>
    <xsl:apply-templates select="node()[local-name() != 'title']"></xsl:apply-
templates>
  </xsl:element>
</xsl:template>

```

```

<xs:element name="elink" type="xs:string">
  <xs:annotation>
    <xs:documentation>Blok linku portalu</xs:documentation>
  </xs:annotation>
</xs:element>

```

```

<xsl:template match="*[@*[local-name()='type']='elink' or local-name()='elink']"
mode="label">
  <span xmlns="http://www.w3.org/1999/xhtml" class="label">
    <xsl:value-of select="'Link portalu'"/>
  </span>
</xsl:template>

```

4. CORS dla audio

Zmiana ta pozwala ominąć problemy z otwieraniem audio gdy jest kilka przekierowań między repozytoriami na Windows.

Zmiany w python:

```

def AVGetLink(request):
    path = request.GET.get('path','')
    if path.find("http://")==-1:
        path = path.replace("//","http://")
    res={ }
    r = requests.get(path,allow_redirects=True)

    o = urlparse(r.url)
    if o.query:
        p = urllib.unquote("http://av.epodreczniki.pl%s?%s" %
(o.path,o.query))
        res['path']=p
    else:
        res['path']="http://av.epodreczniki.pl%s" % (o.path)
    r = requests.get(path,allow_redirects=True)
    o = urlparse(r.url)
    if o.query:
        p = urllib.unquote("http://av.epodreczniki.pl%s?%s" % (o.path,o.query))
        res['path']=p

    return JsonResponse(res)

```

```

define('modules/core/womi/WOMIAudioContainer',['jquery', 'backbone', 'underscore',
'modules/core/Registry', './WOMIContainerBase', 'browser'], function ($, Backbone, _,
Registry, Base, browser) {
  return Base.extend({
    containerClass: 'audio-container',
    urlType: {Material: 0, Subtitle: 1, Metadata: 2},

    _metadata: {
      Profiles: ["audio_low_aac","audio_med_aac","audio_med_ogg"],
      Subtitles: [],
      AltAudio: 0,
      AllowDistribution: true,
      Duration: 0
    },

    _discoverContent: function () {
      this.metadata = _.clone(this._metadata);
      this._altText = this._mainContainerElement.data('alt');
      this._audioId = this._mainContainerElement.data('audio-id');
      this._width = this._mainContainerElement.data('width');
      this._id = (new Date()).getTime() + '_' + this._audioId;
    },

    load: function () {
      var _this = this;

      _this.alreadyLoaded = false;

      this.on('renderDone', function () {
        !_this.alreadyLoaded && _this._runMedia();
        if (this.parent && this.parent.el) {

```

```

        $(this.parent.el).addClass("womi-audio-container"); // needed for CSS styling
    }
});
if (this._mainContainerElement.find('generated-av').length > 0 && !this._avElement)
{
    this._mainContainerElement.find('generated-av').remove();
}
if (!this._avElement) {

    this._avElement = $('<div />', {
        'class': 'generated-av',
        //style: `width: ` + (this._width ? this._width : '100%') + "`,
        id: this._id
    });

    this._mainContainerElement.append(this._avElement);
    this.on('resize', this._resize());
    //this._runMedia();

}

},
_resize: function () {
    var _this = this;

    if (_this._audioEl && _this._audioEl.parents('.pagination-page:not(.pagination-page-blurred)').length
        && _this._audioEl[0] && _this._audioEl[0].player &&
        _this._audioEl[0].player.waveform
        && _this._audioEl[0].player.waveform.surfer) {
        _this._audioEl[0].player.waveform.surfer.drawBuffer();
    }

    return function () {

```

```

        //console.log(_this._mainContainerElement);
    };
},
_setPLLanguage: function () {
    var polish = {
        "Play": "Odtwarzaj",
        "Pause": "Pauza",
        "Mute": "Wycisz",
        "Unmute": "Wył czenie wyciszenia"
    };

    videojs.addLanguage('pl', polish);
},
_runMedia: function () {

    var div = $('<div>', {id: this._id, 'class': 'simple-audio-player'});
    var _this = this;
    this._audioEl = $('<audio class="video-js vjs-default-skin vjs-big-play-centered">');
    this._avElement.append(this._audioEl);

    this._setPLLanguage();

//    require(['reader.api'], function (ReaderApi) {
//        var readerApi = new ReaderApi(require, true);
//        readerApi.bindAudio(div, _this._audioId + ");
//    }
    this._getMetadataInfo();
    //console.log('audio player', this._mainContainerElement);
    this.alreadyLoaded = true;
},
dispose: function () {

```

```

if (this._resize) {
    this.off('resize', this._resize());
}
if (this._avElement != null) {
    this._avElement.remove();
    this._avElement = null;
}
},
getFSElement: function () {
    return {element: this._avElement.clone(), options: {}};
},
hasFullscreenItem: function () {
    return false;
},

_generateHashCode: function (id) {
    var hash = 238;
    for (var i = 0; i < id.length; i++) {
        hash = hash ^ id.charCodeAt(i);
    }
    hash = 65 + hash % 25;
    var letter = String.fromCharCode(hash);
    return letter;
},

_buildUrl: function (newid, urlType) {

    var _this = this;

    var hashCodeStart = '!';

```

```

var RepositoryGlobalSettings = {
    url: "http://av.epodreczniki.pl/RepositoryAccess2/",
    subtitles_url: "///www.epodreczniki.pl/reader/utils/av/",
    metadata_url: "///www.epodreczniki.pl/reader/utils/av/meta/"
};

var path = "";
var baseUrl;

switch (urlType) {
    case _this.urlType.Material:
        baseUrl = RepositoryGlobalSettings.url;
        break;
    case _this.urlType.Subtitle:
        baseUrl = RepositoryGlobalSettings.subtitles_url;
        break;
    case _this.urlType.Metadata:
        baseUrl = RepositoryGlobalSettings.metadata_url;
        break;
}

var hashCode = _this._generateHashCode(String(newid));

path = baseUrl + hashCodeStart + hashCode + newid;

if (urlType == _this.urlType.Material && path.indexOf("(,audio")>-1)
{

    aj = $.ajax({
        type: 'GET',
        async: false,

```



```
url: "http://www.epodreczniki.pl/reader/get-av-url/?path="+path,
xhrFields: {
  withCredentials: false
},
headers: {
},
success: function (data) {
  return data;
},
});

return JSON.parse(aj.responseText).path;

}
else {
  return path;
}
},

_getQualities: function () {

return [
  {
    "level": 0,
    "label": "Niska",
    "profile": "(,audio_low_aac)",
    "type": "audio/mp4"
  },
  {
    "level": 1,
```

```
    "label": " rednia",
    "profile": "(,audio_med_aac)",
    "type": "audio/mp4"
  },
  {
    "level": 0,
    "label": "Niska",
    "profile": "(,audio_low_ogg)",
    "type": "audio/ogg"
  },
  {
    "level": 1,
    "label": " rednia",
    "profile": "(,audio_med_ogg)",
    "type": "audio/ogg"
  }
];
},
```

```
useCoolWavePresentation: (window.location.protocol === 'http:'),
```

```
_createAudioPlayer: function (audioEl, options) {
```

```
  var el = $(audioEl);
```

```
  var _this = this;
```

```
  options.plugins = {
```

```
    resolutionSelector: {
```

```
      default_res: ' rednia'
```

```
    }
```

```
};
```

```

if(this.useCoolWavePresentation && !browser.msie) {
    options.plugins.wavesurfer = {
        src: "",
        msDisplayMax: 10,
        waveColor: "#FFC59F",
        progressColor: "grey",
        cursorColor: "black",
        hideScrollbar: true
    }
}
var surfUrl = null;
_.each(this.metadata.Profiles, function (profile) {

    var _profile = "(," + profile + ")";

    var selectedQuality;

    _.each(_this._getQualities(), function (q) {
        if (q.profile == _profile) {
            selectedQuality = q;
        }
    });

    var format_selector = _this._audioId + _profile;

    if(!surfUrl){
        surfUrl = _this._buildUrl(format_selector, _this.urlType.Material);
    }

    if(!_this.useCoolWavePresentation || browser.msie) {

```

```

        el.append('<source data-res="' + selectedQuality.label + '" data-level="' +
selectedQuality.level + '" src="' + _this._buildUrl(format_selector, _this.urlType.Material) +
'" type="' + selectedQuality.type + '" />');
    }
});
if(this.useCoolWavePresentation && !browser.msie) {
    //console.log("Audio url: ", surfUrl);
    options.plugins.wavesurfer.src = surfUrl;
}

videojs(el[0], options, function () {
    if(!_this.useCoolWavePresentation || browser.msie) {
        if (this.waveform !== undefined ) {
            $(this.waveform.el()).hide();
        }
        $(this.posterImage.el()).show();
        $(this.posterImage.el()).addClass('fake-wave');
    }

    var vpc = $(_this._mainContainerElement).find('.vjs-play-control');
    if (!vpc.find('.vjs-play-icon').length) {
        vpc.append('<span aria-hidden="true" aria-live="off" class="vjs-play-icon">' +
String.fromCharCode(0xE001) + '</span>' +
        '<span aria-hidden="true" aria-live="off" class="vjs-pause-icon">' +
String.fromCharCode(0xE002) + '</span>');
    }
});
},

```

```
_getMetadataInfo: function () {  
  
    var _this = this;  
  
    this.metadata.MaterialId = _this._audioId;  
  
    var updatedProfiles;  
    var vttSubtitles;  
  
    var path = _this._buildUrl(_this._audioId, _this.urlType.Metadata);  
  
    $.ajax({  
        type: 'GET',  
        url: path,  
        xhrFields: {  
            withCredentials: false  
        },  
        headers: {},  
        success: function (data) {  
  
            $.extend(_this.metadata, data);  
  
            //var aspectRatio = _this._aspectRatio;  
            //var w = _this._calcWidth();  
  
            var videoOptions = {  
                "controls": true,  
                "autoplay": false,  
                "preload": "metadata",  
                "loop": false,  
            }  
        }  
    });  
}
```

```

        "width": '100%',
        "height": '110px'
    };

    //      if (_this._keyframe.length) {
    //          var img = new WOMImageContainer({el: _this._keyframe, options: {}});
    //          videoOptions["poster"] = img.getUrl();
    //      }

    _this._createAudioPlayer(_this._audioEl, videoOptions);

    },
    error: function (jqXHR, textStatus, error) {
        if (jqXHR.status === 0) {
            console.log('Cannot connect. Verify network. ');
        } else if (jqXHR.status == 403) {
            console.log('Access denied [403]');
        } else if (jqXHR.status == 404) {
            console.log('Requested page not found [404]');
        } else if (jqXHR.status == 500) {
            console.log('Internal Server Error [500]. ');
        } else if (jqXHR.status == 301) {
            console.log('test: ' +jqXHR.response);
        }
        if (textStatus === 'parsererror') {
            console.log('Parsing JSON failed. ');
        } else if (textStatus === 'timeout') {
            console.log('Time out. ');
        } else if (textStatus === 'abort') {
            console.log('Ajax request aborted. ');
        } else {

```

```

        console.log('Uncaught Error: ' + jqXHR.responseText);
    }
}
});

}
});
}

```

5. WCAG

```

define('modules/utils/wcag',['require', 'jquery'], function (require, $) {
$(document).ready(function () {
    $('p, .para, .title, .label').each(function() {$(this).attr('tabindex', 0);});
});
});

```

6. API

```

var UrlUtil = (function () {
    function getHighestVideoLevel(profile) {
        if (profile[QualityLevels.High])
            return QualityLevels.High;
        else if (profile[QualityLevels.Medium])
            return QualityLevels.Medium;
        else if (profile[QualityLevels.Low])
            return QualityLevels.Low;
        else if (profile[QualityLevels.Lowest])
            return QualityLevels.Lowest;
        else
            return QualityLevels.None;
    }
}

```

```
return {  
    BuildUrl: function (id, urlType) {  
        var addHashCode = true;  
        var hashCodeStart = '!';  
  
        var RepositoryGlobalSettings = {  
            url: "http://av.epodreczniki.pl/RepositoryAccess2/",  
            subtitles_url: "//www.epodreczniki.pl/reader/utils/av/",  
            metadata_url: "//www.epodreczniki.pl/reader/utils/av/meta/"  
        };  
  
        function generateHashCode(id) {  
            var hash = 238;  
            for (var i = 0; i < id.length; i++) {  
                hash = hash ^ id.charCodeAt(i);  
            }  
            hash = 65 + hash % 25;  
            var letter = String.fromCharCode(hash);  
            return letter;  
        }  
  
        var path = " ";  
        var baseUrl;  
        switch (urlType) {  
            case UrlType.Material:  
                baseUrl = RepositoryGlobalSettings.url
```



```

        break;
    case UrlType.Subtitle:
        baseUrl = RepositoryGlobalSettings.subtitles_url
        break;
    case UrlType.Metadata:
        baseUrl = RepositoryGlobalSettings.metadata_url
        break;
}

if (addHashCode)
    path = baseUrl + hashCodeStart + generateHashCode( String(id)) + id;
else
    path = baseUrl + id;
return path;
},

```

```

UpdateProfilesList: function (metadata) {
    function mergeProfiles(current, main) {
        var intermediate = [];
        var result = [];
        for (var i in current) {
            if (current.hasOwnProperty(i)) {
                intermediate[i] = '(,' + current[i] + ')';
            }
        }
    }

    for (var item in main) {
        if (main.hasOwnProperty(item)) {
            var value = main[item];
            var index = $.inArray(value, intermediate);
            if (index !== -1) {

```

```

        result[item] = main[item];
    }
}

return result;
}

```

```

var Profiles = [];

Profiles["webm"] = { 0: "", 1080: "(,webm_hi)", 720: "(,webm_hi)", 360:
"(,webm_med)", 270: "(,webm_med)" };

Profiles["mp4"] = { 0: "", 1080: "(,mp4_hi_hl)", 720: "(,mp4_med_ml)", 360:
"(,mp4_low_bl)", 270: "(,mp4_vlow_bl)" };

```

```

var AudioProfiles = [];

AudioProfiles["mp4"] = { 0: "(,audio_low_aac)", 1: "(,audio_med_aac)" };
AudioProfiles["ogg"] = { 0: "(,audio_med_ogg)", 1: "(,audio_med_ogg)" };

```

```

var udpadetProfiles = [];

```

```

if (metadata != null && metadata.hasOwnProperty('Profiles')) {
    var isAudio = false;
    for (var i = 0; i < metadata.Profiles.length; i++)
        if (metadata.Profiles[i].indexOf('audio_') >= 0)
            isAudio = true;

    if (isAudio) {
        var mp4 = mergeProfiles(metadata.Profiles, AudioProfiles["mp4"]);
        var ogg = mergeProfiles(metadata.Profiles, AudioProfiles["ogg"]);
        udpadetProfiles["mp4"] = mp4;
    }
}

```

```

        udpadetProfiles["ogg"] = ogg;
    }
    else {
        var mp4 = mergeProfiles(metadata.Profiles, Profiles["mp4"]);
        var webm = mergeProfiles(metadata.Profiles, Profiles["webm"]);

        udpadetProfiles["mp4"] = mp4;
        udpadetProfiles["webm"] = webm;
        var highestMp4 = getHighestVideoLevel(udpadetProfiles["mp4"]);
        var highestWebm = getHighestVideoLevel(udpadetProfiles["webm"]);
        if (highestMp4 != highestWebm) {
            if (highestWebm < highestMp4)
                udpadetProfiles["webm"][highestMp4] =
udpadetProfiles["webm"][highestWebm];
            else {
                udpadetProfiles["mp4"][highestWebm] =
udpadetProfiles["mp4"][highestMp4];
            }
        }
    }
}

return udpadetProfiles;
},

```

```

BuildMediaSource: function (mediaType, id, level, profiles, vttSubtitles, track,
subtitle) {
    var firstType;
    var secondType;
    if (mediaType == MediaType.Audio)

```

```

{
    firstType = "mp4";
    secondType = "ogg";
    if (level === undefined)
        level = 1;
}
else
{
    firstType = "mp4";
    secondType = "webm";
    if (level === undefined)
        level = QualityLevels.Medium;
}

```

```

var CompareOperator = { DoNotCompare: -1, Equals: 0, LessThan: 1,
    GreaterThan: 2, LessOrEqual: 3, GreaterOrEqual: 4 };

```

```

var CompareDescription = { 0: 'Equals', 1: 'LessThan', 2: 'GreaterThan', 3:
    'LessOrEqual', 4: 'GreaterOrEqual', DoNotCompare: '<>', Equals: '==', LessThan: '<',
    GreaterThan: '>', LessOrEqual: '<=', GreaterOrEqual: '>=' };

```

```

CompareDescription[-1] = 'DoNotCompare';

```

```

var Devices = [

```

```

{
    "Device": "firefox",
    "DisallowVTTSubtitles": false,
    "Version": "",
    "Pattern": "",
    "VersionOperator": CompareOperator.DoNotCompare,
    "Resolution": 0,
    "ResolutionOperator": CompareOperator.DoNotCompare,
    "Level": QualityLevels.High

```

```

},

```

```

{

```

```
"Device": "windows phone",
"DisallowVTTSubtitles": true,
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Medium
},
{
  "Device": "trident",
  "DisallowVTTSubtitles": true,
  "Version": "",
  "Pattern": "",
  "VersionOperator": CompareOperator.DoNotCompare,
  "Resolution": 0,
  "ResolutionOperator": CompareOperator.DoNotCompare,
  "Level": QualityLevels.High
},
{
  "Device": "ipod",
  "Version": "",
  "Pattern": "",
  "VersionOperator": CompareOperator.DoNotCompare,
  "Resolution": 0,
  "ResolutionOperator": CompareOperator.DoNotCompare,
  "Level": QualityLevels.Lowest
},
{
  "Device": "ipad",
  "Version": "",
```

```
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Medium
},
{
  "Device": "iphone",
  "Version": "4_0_0",
  "Pattern": /iphone os (\d+(?:_\d+)+)/i,
  "VersionOperator": CompareOperator.GreaterOrEqual,
  "Resolution": 0,
  "ResolutionOperator": CompareOperator.DoNotCompare,
  "Level": QualityLevels.Medium
},
{
  "Device": "iphone",
  "Version": "4_0_0",
  "Pattern": /iphone os (\d+(?:_\d+)+)/i,
  "VersionOperator": CompareOperator.LessThan,
  "Resolution": 0,
  "ResolutionOperator": CompareOperator.DoNotCompare,
  "Level": QualityLevels.Lowest
},
{
  "Device": "android",
  "Contains": "firefox",
  "Version": "",
  "Pattern": "",
  "VersionOperator": CompareOperator.DoNotCompare,
  "Resolution": 0,
```

```
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Medium
},
{
  "Device": "android",
  "Version": "3.0",
  "Pattern": /android (\d+(?:\.\d+)+)/i,
  "VersionOperator": CompareOperator.GreaterOrEqual,
  "Resolution": 800,
  "ResolutionOperator": CompareOperator.GreaterThan,
  "Level": QualityLevels.Medium
},
{
  "Device": "android",
  "Version": "3.0",
  "Pattern": /android (\d+(?:\.\d+)+)/i,
  "VersionOperator": CompareOperator.GreaterOrEqual,
  "Resolution": 800,
  "ResolutionOperator": CompareOperator.LessOrEqual,
  "Level": QualityLevels.Low
},
{
  "Device": "android",
  "Version": "3.0",
  "Pattern": /android (\d+(?:\.\d+)+)/i,
  "VersionOperator": CompareOperator.LessThan,
  "Resolution": 0,
  "ResolutionOperator": CompareOperator.DoNotCompare,
  "Level": QualityLevels.Lowest
},
{
```

```
"Device": "opera mini",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
},
{
"Device": "opera mobi",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
},
{
"Device": "opera tablet",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
},
{
"Device": "blackberry",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
```



```
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
},
{
"Device": "bada",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
},
{
"Device": "mobile",
"Version": "",
"Pattern": "",
"VersionOperator": CompareOperator.DoNotCompare,
"Resolution": 0,
"ResolutionOperator": CompareOperator.DoNotCompare,
"Level": QualityLevels.Lowest
}};
```

```
function changeSubtitles(materialId, subtitle) {
    var retVal = materialId;
    var hasParenthesis = materialId.indexOf('(') != -1;
    if (hasParenthesis) {
        var firstPosition = materialId.indexOf(',');
```

```

        var secondPosition = materialId.lastIndexOf(',');
        retVal = materialId.slice(0, firstPosition + 1) + subtitle +
materialId.slice(secondPosition, materialId.length);
    }
    return retVal;
}

```

```

function changeTracks(materialId, track) {
    var retVal = materialId;
    var hasParenthesis = materialId.indexOf('(') != -1;
    if (hasParenthesis) {
        var firstPosition = materialId.indexOf('(');
        var secondPosition = materialId.indexOf(',');
        retVal = materialId.slice(0, firstPosition + 1) + track +
materialId.slice(secondPosition, materialId.length);
    }
    return retVal;
}

```

```

if (mediaType == MediaType.Video) {
    var derivative = id.indexOf('(') != -1 && id.indexOf(')') != -1;
    if (derivative) {

        var posOfFirstBracket = id.indexOf('(');
        var posOfComa = id.indexOf(',');
        var posOfSecondBracket = id.indexOf(')');
        track = id.slice(posOfFirstBracket + 1, posOfComa);
        subtitle = id.slice(posOfComa + 1, posOfSecondBracket);
        id = id.slice(0, posOfFirstBracket);
    }
}

```

```

var allowVttSubtitles = true;
var agent = navigator.userAgent.toLowerCase() || "";
for (i = 0; i < Devices.length; i++) {
    var device = Devices[i];
    if (device.Device) {
        if (agent.indexOf(device.Device) > -1) {
            var proper = true;

            if (device.Contains) {
                proper = agent.indexOf(device.Contains) > -1;
            }
            if (proper)
                if (device.DoNotContain) {
                    proper = agent.indexOf(device.DoNotContain) == -1;
                }
            if (proper) {
                if (device.VersionOperator != CompareOperator.DoNotCompare) {
                    if (device.Pattern) {
                        var version = agent.match(device.Pattern);
                        if (version && version.length > 1) {
                            version = version[1];
                            if (version) {
                                switch (device.VersionOperator) {
                                    case CompareOperator.DoNotCompare:
                                        ;
                                        break;
                                    case CompareOperator.Equals:
                                        proper = (version == device.Version);
                                        break;
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```



```

        break;
    case CompareOperator.GreaterThan: proper = (resolution >
device.Resolution);
        break;
    case CompareOperator.LessOrEqual: proper = (resolution <=
device.Resolution);
        break;
    case CompareOperator.GreaterOrEqual: proper = (resolution >=
device.Resolution);
        break;

    default;;
}

}
}
if (proper && mediaType == MediaType.Video) {

    if(device.Level < level)
        level = device.Level;
    allowVttSubtitles = !device.DisallowVTTSubtitles;
    break;
}
}
}
}

```

```

var result = [];
if (mediaType == MediaType.Video) {
    var highest_level_available = getHighestVideoLevel(profiles[firstType]);
    result.maxQualityLevel = highest_level_available;
}

```

```

if (highest_level_available < level) {
    result.maxQualityLevel = highest_level_available;
    level = highest_level_available;
}
}
else {
    result.maxQualityLevel = 1;
}

if (result.maxQualityLevel > 0) {
    result[firstType] = id + profiles[firstType][level];
    result[secondType] = id + profiles[secondType][level];

    if (mediaType == MediaType.Video) {
        if (track) {
            result[firstType] = changeTracks(result[firstType], track);
            result[secondType] = changeTracks(result[secondType], track);
        }
        if (subtitle) {
            result[firstType] = changeSubtitles(result[firstType], subtitle);
            result[secondType] = changeSubtitles(result[secondType], subtitle);
        }
    }
}

```

```

    result[firstType] = { id: result[firstType], url:
    UriUtil.BuildUrl(result[firstType], UriType.Material) };

```

```

    result[secondType] = { id: result[secondType], url:
    UriUtil.BuildUrl(result[secondType], UriType.Material) };

```

```

if (mediaType == MediaType.Video) {

```

```

        result.allowVttSubtitles = allowVttSubtitles;
        result.vttTracks = vttSubtitles;
    }

    result.duration = -1;
    result.url = result[firstType].url;

}

return result;
}
}

})();

```

7. Daisy

```

define('modules/core/engines/DaisyEngine',['require', 'jquery', 'bowser', './EngineInterface'],
function (require, $, bowser, EngineInterface) {

    return EngineInterface.extend({

        if ($("#"+frid).length==0)
        {
            $.ajax({
                type: 'get',
                url: murl,
                success: function(response) {
                    if (response.engine === 'daisy_engine') {
                        if ($("#"+frid).length==0){

```

```

    _this.createIframe(_this.destination, dimensions, function (iframe) {
        }, function (iframe) {
            var newSrc = ssrc+burl+src+response.folder+'/ncc.html&image=';
            var    imgurl    =    "/" + burl + src    +    "classic-"    +
response.parameters.classic.resolution[1]    +    "."    +
_this.getExt(response.parameters.classic.mimeType);

            iframe[0].src = newSrc+imgurl;

            iframe.attr('id', frid);

            /* _this.debounceBody = function (width, height) {
                iframe.css(_this._calcDimensions());
            };
            */
        });
    }

}

});

}

/*
    _this.createIframe(_this.destination, dimensions, function (iframe) {
        }, function (iframe) {
            var newSrc = _this.scriptSrc+ $('base').attr('href')+src+'2/audiobook/ncc.html';
            iframe[0].src = newSrc;

            _this.debounceBody = function (width, height) {
                iframe.css(_this._calcDimensions());
            };
        });
    */

```



```
    },
    hasFullscreen: function () {
        return false;
    }
});
});
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8"/>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0"/>
```

```
<title></title>
```

```
<link href="/bootstrap/css/bootstrap.min.css" rel="stylesheet" type="text/css"
media="screen"/>
```

```
<!-- custom styles defined in daisywp-config.js will be added after this line ! -->
```

```
<style type="text/css">
```

```
.mixtext {background-color:yellow;padding-bottom: 5px;padding-top: 5px; font-
weight: bold;}
```

```
.vjs-big-play-button {
```

```
left: 50%;
```

```
margin-left: -1.4em;
```

```
top: 35%;
```

```
margin-top: -2.5em;
```

```
}
```

```
.vjs-big-play-button {
```

```
left: 0.5em;
```

```
top: 0.5em;
```

```
font-size: 4em;
```

```
display: block;
```

```
z-index: 2;
position: absolute;
top: 50%;
left: 50%;
width: 2.6em;
height: 2.6em;
text-align: center;
vertical-align: middle;
cursor: pointer;
opacity: 1;
line-height: 2.6em;
text-align: center /* Needed for IE8 */;
background-image: url(//static.epodreczniki.pl/portal/reader/img/players3_normal.svg);
background-repeat: no-repeat;
background-position: left center;
background-size: auto 100%;
}
```

```
</style>
```

```
</head>
```

```
<body role="document">
```

```
<div id="daisyappbase" class="container-fluid" style="display: none;">
```

```
<header role="banner" class="page-header">
```

```
<nav role="navigation">
```

```
<ul class="nav nav-pills">
```

```
<li class="dropdown active">
```

```
<a class="dropdown-toggle" id="dwpViewList" role="button" data-
toggle="dropdown" href="#">
```

```
<b class="caret"></b>
```

```
</a>
```

```
<ul id="menu1" class="dropdown-menu" role="menu" aria-
labelledby="dwpViewList">
  <li role="presentation"><a id="menu1Player" role="menuitem" tabindex="-1"
data-target="#player" data-toggle="tab" href="#"></a></li>
  <li role="presentation"><a id="menu1Text" role="menuitem" tabindex="-1"
data-target="#fulltext" data-toggle="tab" href="#"></a></li>
  <li role="presentation"><a id="menu1Mix" role="menuitem" tabindex="-1"
data-target="#mixtext" data-toggle="tab" href="#">Dynamiczny</a></li>
</ul>
</li>
<li class="dropdown">
  <a class="dropdown-toggle" id="dwpBookList" role="button" data-
toggle="dropdown" href="#">
    <b class="caret"></b>
  </a>
  <ul id="menu2" class="dropdown-menu" role="menu" aria-
labelledby="dwpBookList">
    <li role="presentation"><a id="menu2Sections" role="menuitem" tabindex="-
1" data-target="#sections" data-toggle="tab" href="#"></a></li>
    <li role="presentation"><a id="menu2Pages" role="menuitem" tabindex="-1"
data-target="#pages" data-toggle="tab" href="#"></a></li>
    <li role="presentation"><a id="menu2Notes" role="menuitem" tabindex="-1"
data-target="#notes" data-toggle="tab" href="#"></a></li>
    <li role="presentation"><a id="menu2ProdNotes" role="menuitem"
tabindex="-1" data-target="#prod-notes" data-toggle="tab" href="#"></a></li>
    <li role="presentation"><a id="menu2Props" role="menuitem" tabindex="-1"
data-target="#bookinfo" data-toggle="tab" href="#"></a></li>
  </ul>
</li>
<li class="dropdown">
  <a class="dropdown-toggle" id="dwpMoreList" role="button" data-
toggle="dropdown" href="#">
    <b class="caret"></b>
  </a>
  <ul id="menu3" class="dropdown-menu" role="menu" aria-
labelledby="dwpMoreList">
```

```
<li role="presentation"><a id="menu3About" role="menuitem" tabindex="-1" data-target="#about" data-toggle="modal" href="#"></a></li>
```

```
<li style="display: none;" role="presentation"><a class="dwp-link" id="dwpBtnShelf" role="menuitem" tabindex="-1" href="#"></a></li>
```

```
</ul>
```

```
</li>
```

```
</ul>
```

```
</nav>
```

```
</header>
```

```
<div role="main" aria-labelledby="appname">
```

```
<div class="tab-content">
```

```
<div class="btn-toolbar">
```

```
<div id="dwpPlaybackControl" role="toolbar" class="btn-group">
```

```
<button id="dwpBtnFirst" class="btn"><i class="icon-step-backward"></i></button>
```

```
<button id="dwpBtnPrev" class="btn"><i class="icon-backward"></i></button>
```

```
<button id="dwpBtnToggle" class="btn"><i class="icon-play"></i></button>
```

```
<button id="dwpBtnAbort" class="btn"><i class="icon-stop"></i></button>
```

```
<button id="dwpBtnNext" class="btn"><i class="icon-forward"></i></button>
```

```
<button id="dwpBtnLast" class="btn"><i class="icon-step-forward"></i></button>
```

```
</div>
```

```
<div id="dwpPlayRateControl" role="toolbar" class="btn-group" style="display: none;">
```

```
<button id="dwpBtnPlayFaster" class="btn"><i class="icon-resize-full"></i></button>
```

```
<button id="dwpBtnPlayNormal" class="btn"><i class="icon-resize-small"></i></button>
```

```
</div>
```

```
<div id="dwpFastAccessControl" role="toolbar" class="btn-group">
```

```
<button id="dwpBtnPlayRewind" class="btn"><i class="icon-minus-sign"></i></button>
```

```
<button id="dwpBtnPlayForward" class="btn"><i class="icon-plus-sign"></i></button>
```

```
        </div>
        <div id="dwpLevelControl" role="toolbar" class="btn-group" style="display:
none;">
            <button id="dwpBtnLevelUp" class="btn"><i class="icon-arrow-
up"></i></button>
            <button id="dwpBtnLevelDn" class="btn"><i class="icon-arrow-
down"></i></button>
            <button id="dwpBtnLevelClear" class="btn"><i class="icon-remove-
sign"></i></button>
        </div>
    </div>
    <div class="tab-pane active" id="player">
        <div class="well" id="textfocus"></div>
    </div>
    <div class="tab-pane well" id="fulltext"></div>
    <div class="tab-pane well" id="mixtext"></div>
    <div class="tab-pane well" id="sections"></div>
    <div class="tab-pane well" id="pages"></div>
    <div class="tab-pane well" id="notes"></div>
    <div class="tab-pane well" id="prod-notes"></div>
    <div class="tab-pane well" id="bookinfo"></div>
</div>
<div>
    <span role="status" id="dwpLevelIndicator" class="label label-info">0</span>
    <span role="status" id="dwpPositionInfo" class="label label-info">00:00 /
00:00</span>
    <span role="status" id="dwpPlayRateInfo" class="label label-info">1</span>
    <span role="status" id="dwpBusyIndicator" class="label label-
warning">Busy</span>
</div>
<!-- Debug (start) -->
<div class="debug">
```

```

    <button id="btn-debug-clear" class="btn btn-mini">Clear</button>

    <div id="debug"></div>

</div>

<!-- Debug (end) -->

</div>

<footer role="contentinfo">

    <p id="dwpFooter" class="text-info"></p>

</footer>

</div>

<!-- About dialog -->

<div role="dialog" id="about" class="modal hide fade" tabindex="-1" aria-
labelledby="lblAbout" aria-hidden="true">

    <div class="modal-header">

        <button title="Close" type="button" class="close" data-dismiss="modal">x</button>

        <h1 id="lblAbout">About DAISY Web Player</h1>

    </div>

    <div id="aboutinfo" class="modal-body"></div>

    <div class="modal-footer">

        <button title="Close" class="btn btn-primary" data-dismiss="modal">Close</button>

    </div>

</div>

<div id="dasisyimage" style="width: auto;text-align: center;">

<div class="vjs-poster" tabindex="-1" aria-hidden="true" >

    <img src="" role="presentation" style="display: inline;width: 100%" id="daisy-img">

</div>

    <div class="vjs-big-play-button" id="dasisybutton" role="button" aria-live="polite"
tabindex="0" aria-label="Odtwórz Daisy">

        <span aria-hidden="true"></span>

    </div>

</div>

```

```
<!-- Audio container DIV -->
```

```
<div id="audio_container"></div>
```

```
<!-- Scripts -->
```

```
<script src="/js/jquery.min.js"></script>
```

```
<script src="/js/jquery.jplayer.min.js"></script>
```

```
<script src="/bootstrap/js/bootstrap.min.js"></script>
```

```
<script src="/js/extensions.min.js"></script>
```

```
<script src="/js/daisylib.min.js"></script>
```

```
<script src="/js/yaaow.min.js"></script>
```

```
<script src="/js/daisywp-config.js"></script>
```

```
<script src="/js/daisywp.js"></script>
```

```
<script src="/js/google-analytics.js"></script>
```

```
<script type="text/javascript">
```

```
$.urlParam = function(name){
```

```
var results = new RegExp('[\?&]' + name + '=?(?:[^\&#]*)').exec(window.location.href);
```

```
if (results==null){
```

```
    return null;
```

```
}
```

```
else{
```

```
    return decodeURI(results[1]) || 0;
```

```
}
```

```
}
```

```
$(document).ready(function() {
```

```
    $("#daisy-img").attr("src",$.urlParam('image'));
```

```
    //$('#dasisyimage').css('background-image', 'url("'" + $.urlParam('image') + "'");
```

```
    $('#dwpBtnAbort').click();
```

```
    $('#dasisyimage').click(function() {
```

```

$(this).hide();

$('#daisyappbase').show();

$('#dwpBtnToggle').click();

});

});

</script>
</body>

```

8. Przegląd KZD – zmiana źródła danych

Dotychczas Dane z KZD pochodziły z cache i były odwieane raz dziennie. Powodowało to jednak problemy, m. in. : blokady edycji zasobów, znikanie (z uwagi na cache zasobów) i wielogodzinny czas działania (autorzy przeglądali wszystkie zasoby). Dlatego wprowadzono zmianę źródła danych dla widoku KZD <http://www.epodreczniki.pl/front/kzd/main> oraz list i filtrów, które ta strona pokazuje. Obecnie, raz dziennie (można na ustawić częstotliwość) dane pobierane są z dlibry oraz z pokrewnych zasobów json i ładowane do bazy portalu, która jest teraz źródłem danych dla powyższych widoków.

Zmiany:

```
class Migration(migrations.Migration):
```

```
dependencies = [
```

```
    ('front', '0001_initial'),
```

```
]
```

```
operations = [
```

```
    migrations.CreateModel(
```

```
        name='KZDCategories',
```

```
        fields=[
```

```
            ('key', models.CharField(max_length=200, primary_key=True, serialize=False),
```

```
            ('name', models.CharField(max_length=200)),
```

```
        ],
```



```
        options={
            },
        bases=(models.Model,),
    ),
]
```

```
class Migration(migrations.Migration):
```

```
    dependencies = [
        ('front', '0004_auto_20180404_1908'),
    ]
```

```
    operations = [
        migrations.AddField(
            model_name='kzdroot',
            name='ver',
            field=models.CharField(max_length=4, null=True),
            preserve_default=True,
        ),
    ]
```

```
]class Migration(migrations.Migration):
```

```
    dependencies = [
        ('front', '0009_auto_20180405_1732'),
    ]
```

```
    operations = [
        migrations.CreateModel(
            name='KZDLevels',
            fields=[
                ('id', models.AutoField(verbose_name='ID', serialize=False,
auto_created=True, primary_key=True)),
            ]
        ),
    ]
```

```

        ('text', models.CharField(max_length=80)),
        ('kzd', models.ForeignKey(related_name='kzd_levels', to='front.KZDRoot')),
    ],
    options={
    },
    bases=(models.Model,),
),
]

```

```
class Migration(migrations.Migration):
```

```

    dependencies = [
        ('front', '0010_kzdlevels'),
    ]

```

```

    operations = [
        migrations.AddField(
            model_name='kzdlevels',
            name='code',
            field=models.CharField(max_length=5, null=True),
            preserve_default=True,
        ),
    ]

```

```
class Migration(migrations.Migration):
```

```

    dependencies = [
        ('front', '0003_auto_20180403_2152'),
    ]

```

```

    operations = [

```

```

migrations.CreateModel(
    name='KZDRoot',
    fields=[
        ('idx', models.IntegerField(serialize=False, primary_key=True)),
        ('custom_id', models.CharField(max_length=80)),
        ('cat', models.CharField(max_length=200)),
        ('author', models.CharField(max_length=1000, null=True)),
        ('title', models.CharField(max_length=600, null=True)),
        ('alttext', models.CharField(max_length=1000, null=True)),
        ('licence', models.CharField(max_length=100, null=True)),
        ('recipient', models.CharField(max_length=50, null=True)),
        ('desc', models.CharField(max_length=1000, null=True)),
        ('keywords', models.CharField(max_length=1000, null=True)),
        ('core', models.CharField(max_length=1000, null=True)),
    ],
    options={},
    bases=(models.Model,),
),
migrations.DeleteModel(
    name='KZDCategories',
),
]

def get_name(text):
    if 'E1' in text:
        return "E1"
    elif 'E2' in text:
        return "E2"
    elif 'E3' in text:
        return "E3"
    elif 'E4' in text:

```

```

        return "E4"
    else:
        return ""

class Command(BaseCommand):
    help = 'Import KZD from dlibra'

    def handle(self, *args, **options):
        print('Start')

        KZDRoot.objects.all().delete()

        cursor = connections['dlibra_repo'].cursor()
        cursor.execute("select edi_id from met_editions where edi_name like %[KZD]%'
and edi_state=8 and edi_name not like %[embedded]%'")
        data = dictfetchall(cursor)
        cursor.close()
        for d in data:
            idx = int(d.get('edi_id'))
            try:
                metadata = requests.get('http://preview.epodreczniki.pl/content/womi/%s/metadata.json' %
idx ).json()
                manifest = requests.get('http://preview.epodreczniki.pl/content/womi/%s/manifest.json' %
idx ).json()
            except:
                continue;
            else:
                if metadata.get('customId',None) and metadata.get('purpose',None)=='kzd':
                    thumb=None
                    ver=None
                    if manifest.get('version',None):

```

```

        ver = int(float(manifest.get('version')))

    for item in manifest.get('items',[]):
        if item.get('role', '') == 'thumbnail':
            thumb=item.get('womiId', '')
            break;

        kzd=
        KZDRoot(idx=idx,custom_id=metadata.get('customId'),cat=metadata.get('extended').get('category'),author=metadata.get('author'),

        title=metadata.get('title'),alttext=metadata.get('alternativeText'),license=metadata.get('license'),

        recipient=metadata.get('extended').get('recipient'),desc=metadata.get('extended').get('description'),core=metadata.get('extended').get('origin'),

        ver = ver,thumb_id = thumb)

        kzd.save()

        for key in metadata.get('keywords',[]):
            kzdkey = KZDKeywords(kzd =kzd,text = key)
            kzdkey.save()

        for level in metadata.get('extended',{ }).get('learningObjectives',[]):
            kzdlevel = KZDLevels(kzd =kzd,text = level,code =get_name(level) )
            kzdlevel.save()

    print('End')

def kzd_new_welcome(request):
    cats = {category.key: {
        'count': KZDRoot.objects.filter(cat=category.key).count(),
        'category_name': category.key,

```

```

        'category_label': category.label,
        'category_class': category.css_class
    } for category in KZD_CATEGORIES.itervalues()

sorted_categories = sorted(cats.values(), key=lambda it: it['count'], reverse=True)
config = volatile_models.Config
return render(request, 'new_templates/kzd_welcome.html', {
    'show_view': '%s_%s' % (config.VIEWS_BASE_NAME, 'womi_embed'),
#temporary embed
    'sorted_categories': sorted_categories,
    'all_items_count': sum(map(lambda x: x['count'], sorted_categories)),
    'edit_pattern': endpoint_string_pattern('edit_resource')
})

```

```
def query_repo(request):
```

```

    if 'front/kzd/main' in request.META.get('HTTP_REFERER', ''):
        #cursor = connection.cursor()

        #cursor.execute("""select keywords,kzd' purpose, cat extended_category,"desc"
description, "ver" "version" from front_kzdroot limit 10;""")

        #data = dictfetchall(cursor)

        #cursor.close()

        ret=[]

        qargs = []

        f = json.loads(request.body)

        page = f.get('page',0)

        size = f.get('size',22)

        for field in f.get('filter',{ }).get('operands',[]):

            fname = field.get('field',None)

            fvalue = field.get('value',None)

            if fname == 'extended_category' and fvalue:

```

```

        qargs.append( Q(cat=" ".join(fvalue) ))
elif fname=='educationLevels' and fvalue:
    qargs.append( Q(kzd_levels__code__in=fvalue) )
elif fname=='source' and fvalue:
    qargs.append( Q(title__icontains=fvalue[0] ) )

for d in KZDRoot.objects.filter(*qargs).order_by('-idx')[page:page+size]:
    tmp = { 'identifier':d.idx,'category':'womi','authors':[{ 'full_name':author } for
author in d.author.split(',')],
           'attributes':{'license':d.license,'keywords':[dkey.text for dkey in
d.kzd_keywords.all()], 'description':d.desc,'extended_category':d.cat,
           'title':d.title,'educationLevels':[dlevel.code for dlevel in
d.kzd_levels.all()], 'thumbnail':{'id':d.thumb_id}},
           'purpose':kzd,'version':d.ver}
    ret.append(tmp)

return JsonResponse(ret, safe=False)
else:
    driver = utils.get_index_driver()
    return JsonResponse(driver.query_index(query=json.loads(request.body)),
safe=False)

def bind_present_object_view(glob, view_name):

    repo_present = getattr(repo.views, view_name)
    editstore_present = getattr(editstore.views.bound_views, view_name)

def present_object(request, identifier, version, *args, **kwargs):
    try:
        response = repo_present(request, identifier, version, *args, **kwargs)

        if response.status_code == 200:

```

```
try:
    path = request.path.split('.')
    suffix = path[-1]
    if suffix.lower() in ['.pdf', '.ppt', '.pptx', '.ai', '.doc', '.docx', '.xls', '.xlsx', '.tff']:
        response['Content-Disposition'] = 'attachment;'
    return response
except:
```

```
except RepositoryNotFound as e:
```

```
    pass
```

```
if settings.EPO_ENABLE_EDITION:
```

```
    return editstore_present(request, identifier, version, *args, **kwargs)
```

```
raise Http404('object not found')
```

```
present_object.__name__ = view_name
```

```
glob[view_name] = present_object
```