

# Projekt aplikacji do zarządzania serialami

Realizowany w ramach kursu „Projektowanie Oprogramowania”

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## Spis treści

1) Wizja, słownik .....	<b>3</b>
2) Model domenowy. Reguły biznesowe .....	<b>9</b>
3) Specyfikacja wymagań .....	<b>13</b>
4) Diagram przypadków użycia .....	<b>16</b>
5) Specyfikacja przypadków użycia. Model informacyjny .....	<b>19</b>
6) Prototyp interfejsu .....	<b>28</b>
7) Architektura systemu. Projekt bazy danych .....	<b>39</b>
8) Implementacja interfejsu zgodnie z projektem .....	<b>46</b>
9) Podłączenie logiki aplikacji do interfejsu .....	<b>55</b>
10) Realizacja PU .....	<b>74</b>
11) Testy jednostkowe .....	<b>95</b>
12) Przypadki testowe dla PU. Automatyzacja testów funkcjonalnych. Badanie jakości projektu ....	<b>100</b>

(1)

Wizja, słownik

Aplikacja o serialach	
Wizja	Data: <11/paź/18>

# Aplikacja do zarządzania oglądanymi serialami

## Wizja

### 1. Wprowadzenie

W dokumencie opisano wizję systemu, który będzie umożliwiał przeglądanie informacji o serialach. Zalogowani użytkownicy będą mogli oznaczać ulubione seriale i obejrzać odcinki oraz dodawać do nich komentarze. Użytkownik będzie mógł również przeglądać statystyki dotyczące oglądanych przez niego seriali w tym zbiorcze podsumowanie łącznej liczby godzin spędzonej na oglądaniu seriali. System będzie wysyłał użytkownikom informacje o premierach nowych odcinków obserwowanych przez nich seriali. Opis odcinków seriali będzie zawierał krótki opis fabuły, datę premiery, czas trwania oraz listę stron internetowych na których można obejrzeć odcinek.

### 2. Pozycjonowanie

#### 2.1 Sformułowanie problemu

Problem	<i>Problem z pamiętaniem faktów potrzebnych przy oglądaniu seriali</i>
Dotyczy	<i>Widzów seriali, twórców seriali</i>
Wpływ problemu	<i>Widz nie wie jaki odcinek włączyć kolejny Widz nie wie ile czasu zajmie aktywność Widz nie wie na jakiej platformie ma oglądać serial</i>
Pomyślne rozwiązanie	<i>Będzie zwalniało widzów z konieczności pamiętania faktów o serialach</i>

#### 2.2 Opis pozycji produktu

Dla	<i>Osób oglądających seriale, używających nowych technologii</i>
Który	<i>Chce łatwiej zarządzać oglądanymi serialami</i>
(Nazwa produktu)	<i>Webowa aplikacja rozrywkowa</i>
Który	<i>Skraca czas potrzebny do zapisywania informacji o serialach</i>
Inaczej niż	<i>Filmweb</i>
Nasz produkt	<i>Skupia się na serialach i przez to jest dużo łatwiejszy w obsłudze, oraz potrafi wyświetlać różne informacje zbiorcze</i>

Aplikacja o serialach	
Wizja	Data: <11/paź/18>

### 3. Opis udziałowców i użytkowników

#### 3.1 Podsumowanie udziałowców

Nazwa	Opis	Odpowiedzialności
Zarząd	<i>Osoby zarządzające projektem</i>	<i>Przygotowanie projektu</i> <i>Zarządzanie finansami</i> <i>Zarządzanie kadrą</i> <i>Sprawdzanie rozwoju</i> <i>Marketing</i> <i>Zapewnienie spójności wymagań</i>

#### 3.2 Podsumowanie użytkowników

Nazwa	Opis	Odpowiedzialności
Użytkownik	<i>Osoba używająca systemu</i>	<i>Dodaje nowe seriale do bazy danych</i> <i>Zgłasza problemy moderatorowi</i> <i>Używa założonego konta</i> <i>Zaznacza obejrzone odcinki</i> <i>Komentuje seriale</i> <i>Komentuje odcinki</i> <i>Ocenia odcinki</i> <i>Ocenia seriale</i> <i>Przegląda statystyki</i>
Moderator	<i>Osoby zarządzające danymi w gotowym projekcie</i>	<i>Wprowadza nowe seriale do systemu</i> <i>Reaguje na problemy zgłoszone przez użytkowników</i>

Aplikacja o serialach	
Wizja	Data: <11/paź/18>

## 4. Opis produktu

### 4.1 Potrzeby i cechy

Potrzeba	Priorytet	Cechy	Planowane wydanie
Użytkownik potrzebuje widzieć listę seriali i ich odcinków	must	Wyszukiwanie seriali Przeglądanie odcinków dostępnych dla danego serialu	1.0
Użytkownik potrzebuje pamiętać ostatni odcinek oglądanego serialu	must	Zaznaczanie obejrzanych odcinków	1.0
Użytkownik musi pamiętać oglądane seriale	must	Zaznaczanie oglądanych seriali	1.0
Użytkownik chce pamiętać jakie wrażenie zrobił na nim dany odcinek/serial	must	Ocenianie poszczególnych odcinków i seriali	1.0
Użytkownik chce mieć dostęp do danych z różnych urządzeń	must	Tworzenie kont użytkownika Logowanie się do kont użytkownika Dane użytkownika mają być przechowywane na serwerze	1.0
Użytkownik może pamiętać kiedy pojawiają się kolejne odcinki	should	Harmonogram dat premier odcinków	1.1
Użytkownik chce dzielić się z innymi ludźmi komentarzami na tematy serialowe	could	Tworzenie tematycznych wątków Możliwość zostawiania komentarzy	1.2
Użytkownik chce móc zareagować na niewłaściwe zachowania innych użytkowników	should	Zgłaszcenie użytkowników lub ich wypowiedzi moderatorowi	1.1
Użytkownik chce móc sprostować fałszywe dane	should	Zgłaszczenie fragmentu danych moderatorowi z sprostowaniem	1.1
Użytkownik chce oglądać statystyki	could	Tworzenie statystyk użytkowników Tworzenie statystyk seriali	1.2
Użytkownik chce otrzymywać powiadomienia dotyczące pojawiania się nowych odcinków	could	Wysyłanie powiadomień o nowych informacjach dotyczących seriali	1.3
Użytkownik chce móc porozumieć się bezpośrednio z innym użytkownikiem przez wysłanie mu wiadomości	won't	-	-
Moderator chce łatwo wykonywać swoją pracę	could	Tworzenie kolejki priorytetowej zgłoszeń uwag użytkowników Sztuczna inteligencja wskazuje potencjalnie szkodliwe komentarze	1.4

Aplikacja o serialach	
Wizja	Data: <11/paź/18>

#### 4.2 Inne wymagania produktowe

Wymaganie	Priorytet	Planowane wydanie
System działa poprawnie w przeglądarce Google Chrome i Firefox	must	1.0
System działa poprawnie w przeglądarce Edge i Opera	should	1.2
System działa poprawnie w przeglądarce Internet Explorer i Safari	could	1.3
System działa na urządzenia mobilnych Android	should	1.1
System działa na urządzeniach mobilnych iOS	should	1.1
Kopia bazy danych seriali i danych wprowadzonych użytkowników jest regularnie wykonywana	must	1.0
System jest dostępny w angielskiej wersji językowej	must	1.0
System wyświetla spersonalizowane reklamy	could	1.2
System ma czytelny i ładny interfejs	could	1.2
Aplikacja webowa jest w pełni responsywna i wygodna do używania niezależnie od wielkości ekranu urządzenia klienckiego	should	1.1
Aplikacja webowa udostępnia część funkcji offline	could	1.3

Aplikacja o serialach	
Wizja	Data: <11/paź/18>

# SŁOWNIK

## 1. Data premiery

Data upublicznienia odcinka lub sezonu w telewizji lub w interecine

## 2. Filmweb

Serwis służący do oceniania i komentowania filmów oraz seriali. Nie służy jednak do śledzenia informacji dotyczących konkretnych odcinków seriali.

## 3. Komentarz

Subiektywna ocena użytkownika dotycząca serialu lub odcinka wyrażona krótkim i zwięzłym tekstem.

## 4. Moderator

Osoba nadzorująca przestrzeganie kultury przez użytkowników oraz weryfikująca spójność publikowanych w obrębie aplikacji informacji z rzeczywistością.

## 5. Ocena

Subiektywna ocena użytkownika dotycząca serialu lub odcinka wyrażona w skali od 1 do 10.

## 6. Odcinek

Część serialu prezentowana w postaci jednego filmu. Typowa długość odcinka zawiera się między 20 a 40 minut.

## 7. Powiadomienie

Informacja dostarczana użytkownikowi o aktualnościach dotyczących obserwowanych przez niego seriali. Może na przykład dotyczyć informacji o premierze nowego odcinka serialu.

## 8. Serial

Program telewizyjny, wieloodcinkowy film. Istotą serialu jest udostępnianie go odbiorcom w odcinkach, zwykle w regularnych odstępach czasu. Seriale uporządkowane są w sezony, które natomiast zawierają odcinki.

## 9. Sezon

Zbiór odcinków publikowanych w zgodności tematycznej (prowadzenie spójnych wątków tematycznych i historii w obrębie sezonu) lub w zgodności czasu (publikowanie określonej liczby odcinków w stałych odstępach czasowych a następnie dłuższa przerwa przed rozpoczęciem kolejnego sezonu).

## 10. Statystyka Serialu

Zbiorcze informacje dotyczące popularności serialu.

## 11. Statystyka Użytkownika

Podsumowanie informacji dotyczących aktywności użytkownika w obrębie aplikacji (np. łączna liczba godzin spędzone na oglądaniu seriali na podstawie oznaczonych w aplikacji obejrzanych odcinków).

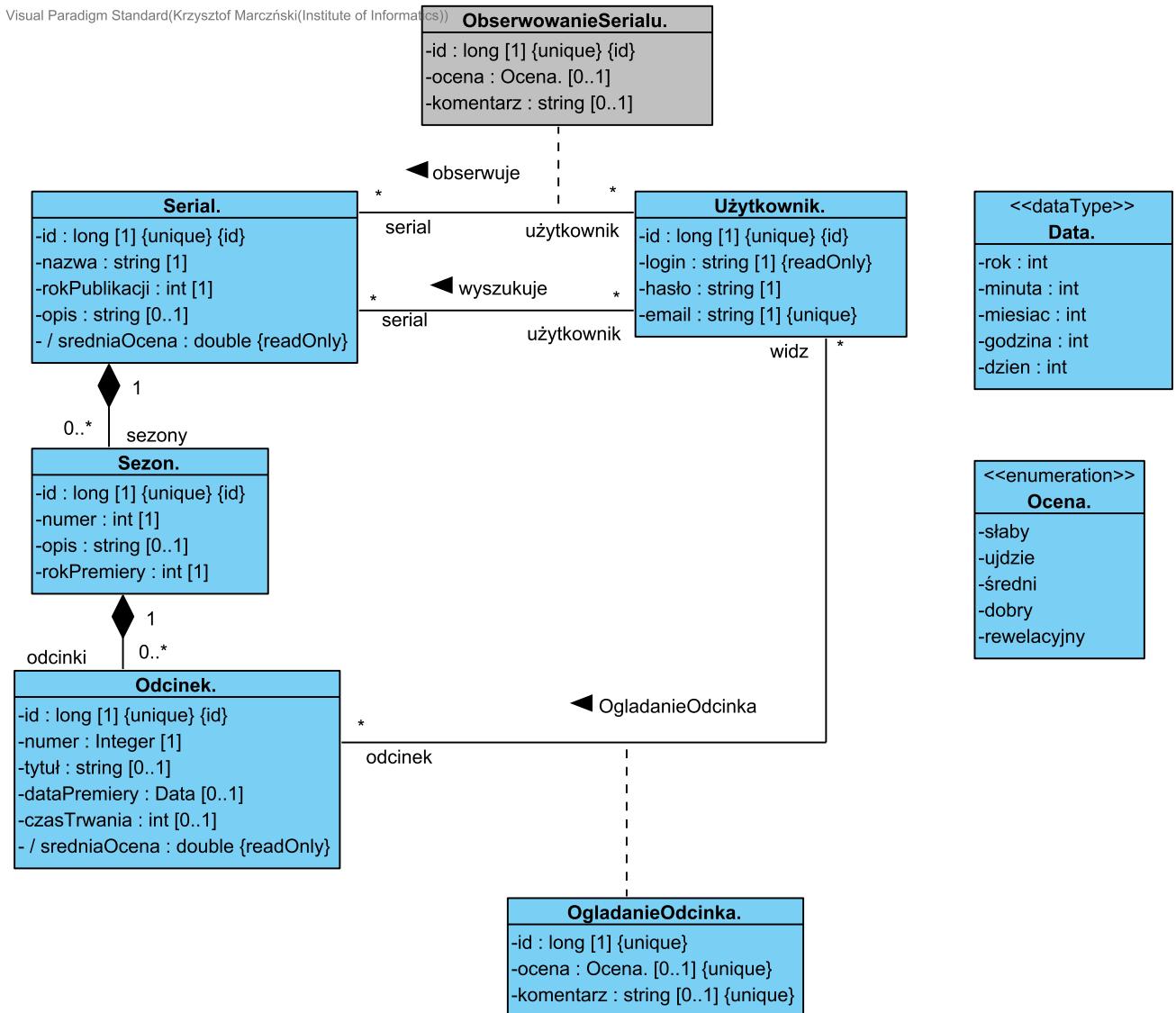
## 12. Użytkownik

Osoba używająca aplikacji w celu zarządzania obejrzanymi przez siebie serialami.

(2)

Model domenowy.  
Reguły biznesowe

# 1. Diagram klas



## 1.1. Data.

## 1.2. ObserwowanieSerialu.

## 1.3. Ocena.

## 1.4. Odcinek.

## 1.5. OgladanieOdcinka.

## 1.6. Serial.

## 1.7. Sezon.

## 1.8. Uzytkownik.

# Reguły biznesowe

## Ograniczenia struktury

Użytkownik **musi** mieć unikatowy login.

Użytkownik **musi** mieć unikatowy email.

Hasło użytkownika **nie może** zawierać polskich znaków.

Hasło użytkownika **musi** składać się z minimum 8 znaków.

Adres email użytkownika **musi** zawierać dokładnie jeden symbol '@'

Data premiery odcinka **nie może** być starsza niż data premiery serialu.

Odcinek **musi** mieć przydzielony numer.

Sezon **musi** mieć przydzielony numer.

Numer sezonu **musi** być unikalny w obrębie serialu.

Numer odcinka **musi** być unikalny w obrębie sezonu.

Ocena **musi** być w określonym formacie.

Serial **musi** mieć przydzieloną nazwę.

Serial **musi** mieć przydzielony rok publikacji.

## Ograniczenia operacji

Widz **może** ocenić odcinek **tylko** kiedy go obejrzał.

Użytkownik **może** ocenić serial **tylko** kiedy go obserwuje.

Serial **nie może** zostać wprowadzony do bazy seriali, jeśli jego nazwa i rok nie są unikalne.

Użytkownik **musi** znać nazwę serialu, żeby go wyszukać.

Użytkownik **nie może** zmienić loginu.

## Wnioski

Użytkownik **musi być uznany** za zainteresowanego serialu jeśli obejrzał przynajmniej 30% wszystkich dostępnych odcinków.

Wysłanie powiadomienia o premierze odcinka **może być wykonane** dla użytkownika kiedy użytkownik obejrzał wszystkie poprzednie dostępne odcinki.

Użytkownik **musi być uznany** za priorytetowego jeśli kliknął w przynajmniej 3 reklamy wyświetlane w aplikacji.

Jeśli widz oznaczy odcinek jako obejrzany, serial **musi** być uznany za obserwowany.

## Obliczenia

Średnia ocena odcinka **musi być obliczona** jako średnia ocen wszystkich użytkowników.

Średnia ocena serialu **musi być obliczona** jako średnia ocen wszystkich użytkowników.

To czy zbanować użytkownika **musi być obliczone** równaniem: użytkownik miał lub ma 10 zgłoszonych komentarzy i moderator usunął przynajmniej połowę lub moderator tak decyduje.

## Wskazówki

Odcinek **nie musi** mieć ustalonej premiery.

Użytkownik **może** zostawić komentarz do odcinka.

Użytkownik **może** zostawić komentarz do serialu.

Odcinek **może** posiadać opis.

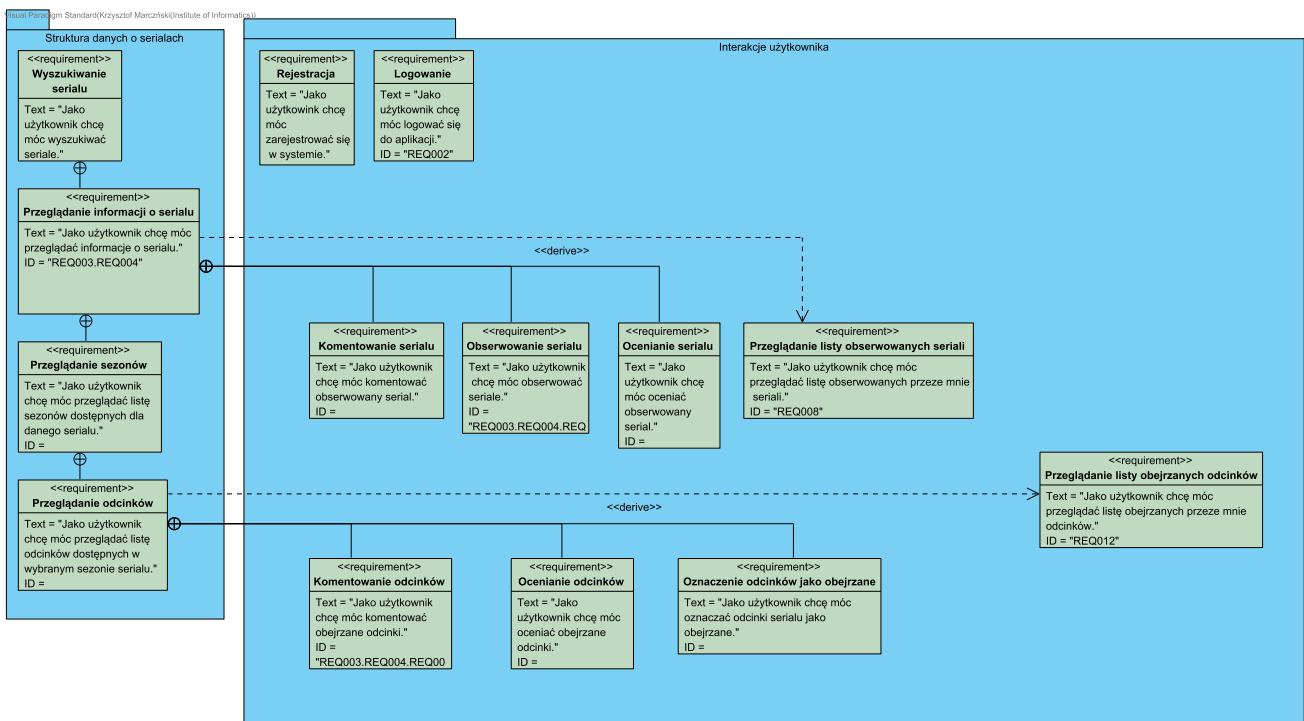
Sezon **może** posiadać opis.

Serial **może** posiadać opis.

(3)

## Specyfikacja wymagań

# 1. Requirement Diagram



## 1.1. Interakcje użytkownika

## 1.2. Komentowanie odcinków

ID: REQ003.REQ004.REQ005.REQ006.REQ013

Jako użytkownik chcę móc komentować obejrzane odcinki.

## 1.3. Komentowanie serialu

ID: REQ003.REQ004.REQ010

Jako użytkownik chcę móc komentować obserwowany serial.

## 1.4. Logowanie

ID: REQ002

Jako użytkownik chcę móc logować się do aplikacji.

## 1.5. Obserwowanie serialu

ID: REQ003.REQ004.REQ007

Jako użytkownik chcę móc obserwować serial.

## 1.6. Ocenianie odcinków

ID: REQ003.REQ004.REQ005.REQ006.REQ014

Jako użytkownik chcę móc oceniać obejrzane odcinki.

## 1.7. Ocenianie serialu

ID: REQ003.REQ004.REQ009

Jako użytkownik chcę móc oceniać obserwowany serial.

## 1.8. Oznaczenie odcinków jako obejrzane

ID: REQ003.REQ004.REQ005.REQ006.REQ011

Jako użytkownik chcę móc oznaczać odcinki serialu jako obejrzane.

### **1.9. Przeglądanie informacji o serialu**

ID: REQ003.REQ004

Jako użytkownik chcę móc przeglądać informacje o serialu.

### **1.10. Przeglądanie listy obejrzanych odcinków**

ID: REQ012

Jako użytkownik chcę móc przeglądać listę obejrzanych przeze mnie odcinków.

### **1.11. Przeglądanie listy obserwowanych seriali**

ID: REQ008

Jako użytkownik chcę móc przeglądać listę obserwowanych przeze mnie seriali.

### **1.12. Przeglądanie odcinków**

ID: REQ003.REQ004.REQ005.REQ006

Jako użytkownik chcę móc przeglądać listę odcinków dostępnych w wybranym sezonie serialu.

### **1.13. Przeglądanie sezonów**

ID: REQ003.REQ004.REQ005

Jako użytkownik chcę móc przeglądać listę sezonów dostępnych dla danego serialu.

### **1.14. Rejestracja**

ID: REQ001

Jako użytkownik chcę zarejestrować się w systemie.

### **1.15. Struktura danych o serialach**

### **1.16. Wyszukiwanie serialu**

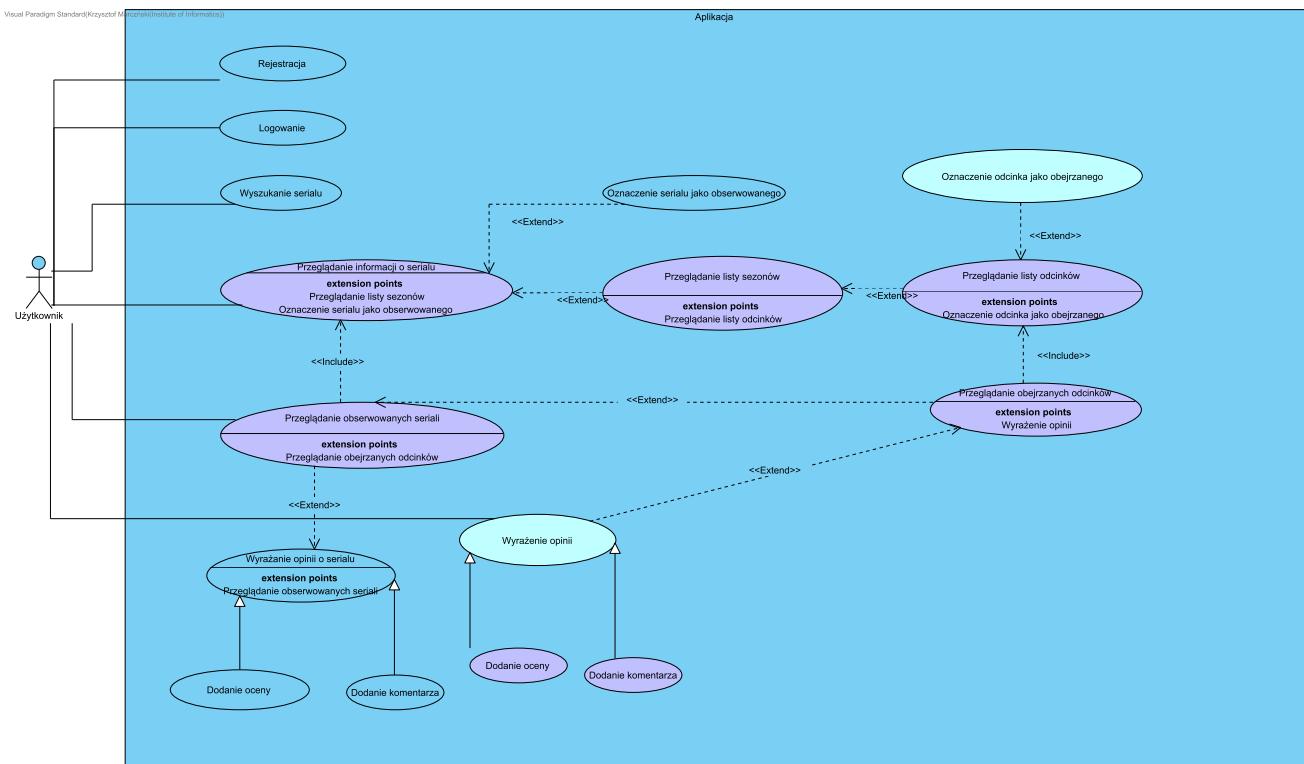
ID: REQ003

Jako użytkownik chcę móc wyszukiwać seriale.

(4)

# Diagram przypadków użycia

# 1. Diagram przypadków użycia



## 1.1. Aplikacja

### 1.2. Dodanie komentarza

ID: UC11

### 1.3. Dodanie oceny

ID: UC10

### 1.4. Logowanie

ID: UC12

Użytkownik loguje się do systemu, aby system wyświetla jego dane. W tym celu wpisuje login i hasło.

### 1.5. Oznaczenie odcinka jako obejrzanego

ID: UC14

Użytkownik może oznać odcinek jako obejrzany.

### 1.6. Oznaczenie serialu jako obserwowanego

ID: UC02

Użytkownik oznacza serial jako obserwowany, co znaczy, że otrzymywa powiadomienia o nowościach z nim związanych.

### 1.7. Przeglądarka informacji o serialu

ID: UC07

Użytkownik może przeglądać informacje o wyszukanych lub obserwowanych przez niego serialach. Musi wykonać ten krok, aby móc dostęp do innych funkcji takich jak zaznaczenie odcinka jako obejrzanego.

### 1.8. Przeglądanie listy odcinków

ID: UC09

Użytkownikowi wyświetlane jest lista odcinków dla danego sezonu.

### 1.9. Przeglądanie listy sezonów

ID: UC08

Użytkownikowi pokazywana jest lista sezonów dla danego serialu.

### 1.10. Przeglądanie obejrzanych odcinków

ID: UC16

Użytkownik może przeglądać obejrzone odcinki, w formie listy odcinków z zaznaczeniem tych, które już obejrzał.

### 1.11. Przeglądanie obserwowanych seriali

ID: UC15

Użytkownik może przeglądać obserwowane seriale. Ma dostęp również do zbiorowych statystyk takich jak suma oglądalnych odcinków.

### 1.12. Rejestracja

ID: UC13

Użytkownik musi się zarejestrować, aby korzystać z serwisu. Wymagała sobie login i hasło, oraz musi zaakceptować regulamin serwisu.

### 1.13. Użytkownik

ID: AC01

### 1.14. Wyrażanie opinii o serialu

ID: UC18

### 1.15. Wyrażenie opinii

ID: UC03

Użytkownik może wyrazić opinię o serialu w formie komentarza lub oceny. Ocena jest wyliczeniem.

### 1.16. Wyszukanie serialu

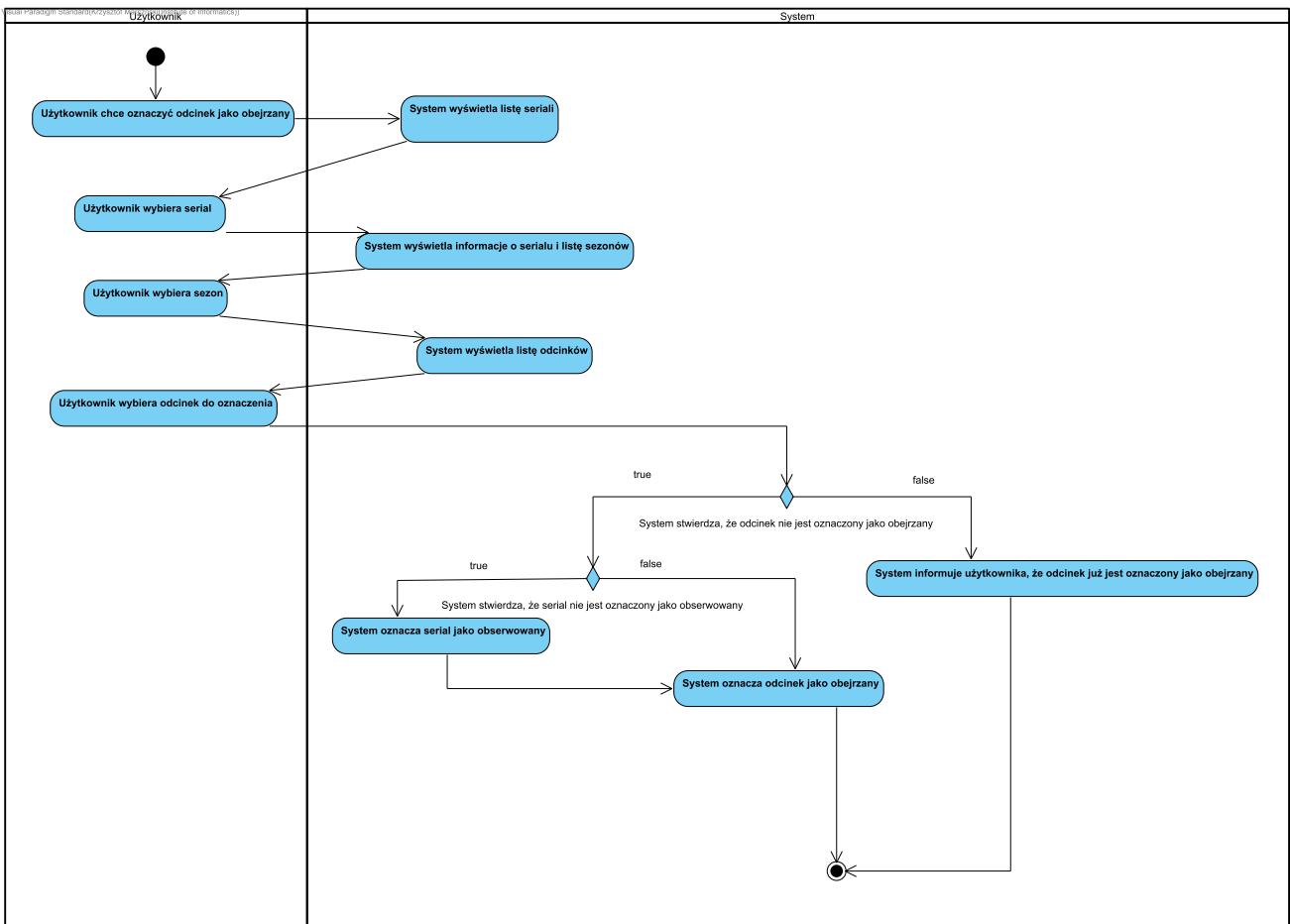
ID: UC01

Użytkownik może wyszukać serial po nazwie i roku.

(5)

Specyfikacja  
przypadków użycia.  
Model informacyjny

## 1. Oznaczenie odcinka jako obejrzanego v2



\*\*\*\*\* Oznaczanie odcinka jako obejrzanego ver 2\*\*\*\*\*

1. U#ytkownik chce oznaczy# odcinek jako obejrzany
2. System wy#wietla list# seriali
3. U#ytkownik wybiera serial
4. System wy#wietla informacje o serialu i list# sezonów
5. U#ytkownik wybiera sezon
6. System wy#wietla list# odcinków
7. U#ytkownik wybiera odcinek do oznaczenia
8. if (System stwierdza, #e odcinek nie jest oznaczony jako obejrzany)
  - 8.1. if (System stwierdza, #e serial nie jest oznaczony jako obserwowany)
    - 8.1.1. System oznacza serial jako obserwowany
  - 8.2 System oznacza odcinek jako obejrzany
9. else
  - 9.1 System informuje u#ytkownika, #e odcinek ju# jest oznaczony jako obejrzany

### 1.1. Swimlane

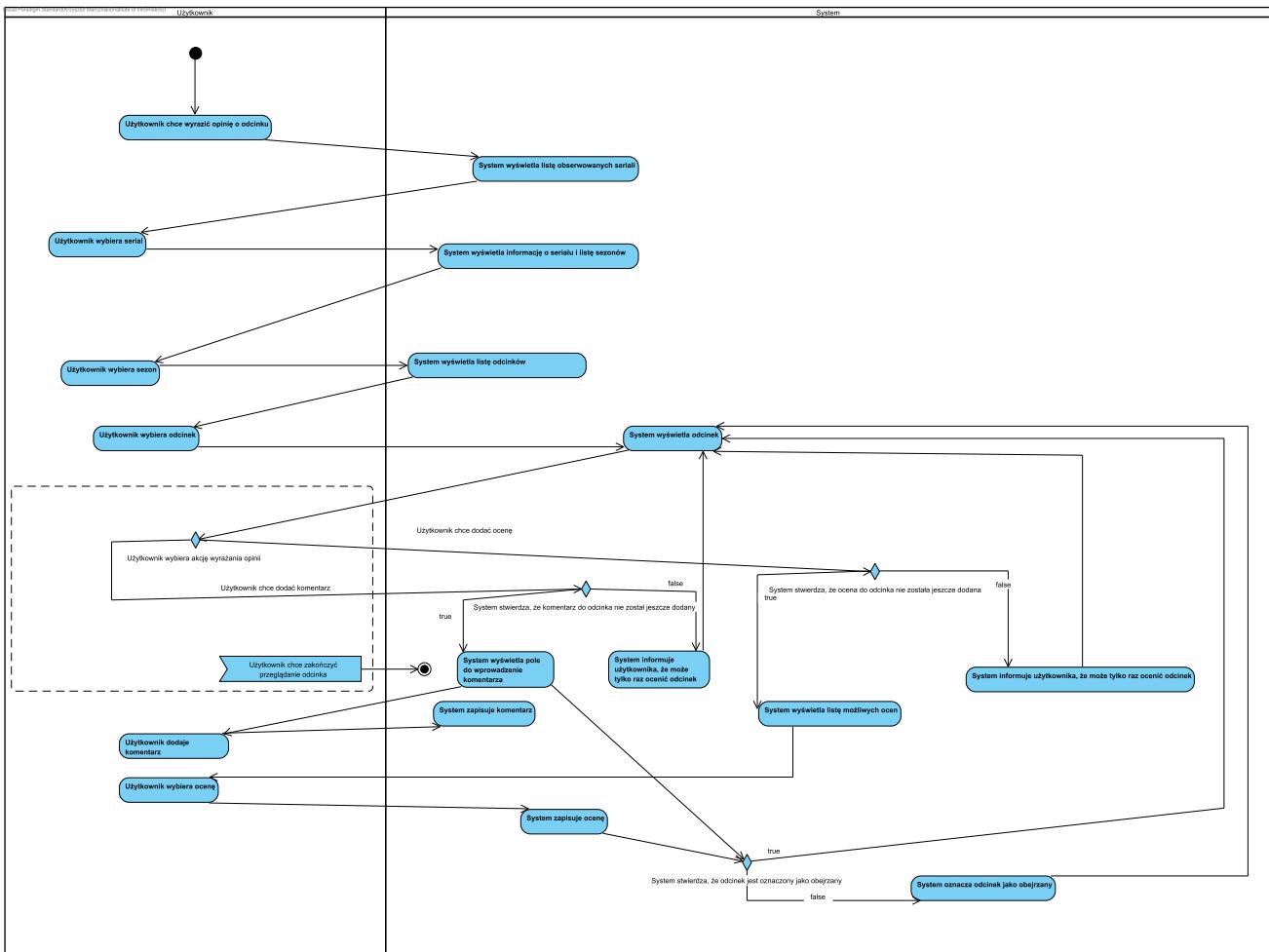
1.2. System informuje u#ytkownika, #e odcinek ju# jest oznaczony jako obejrzany

1.3. System oznacza odcinek jako obejrzany

1.4. System oznacza serial jako obserwowany

- 1.5. System stwierdza, #e odcinek nie jest oznaczony jako obejrzany
- 1.6. System stwierdza, #e serial nie jest oznaczony jako obserwowany
- 1.7. System wyświetla informacje o serialu i list# sezonów
- 1.8. System wyświetla list# odcinków
- 1.9. System wyświetla list# seriali
- 1.10. unnamed
- ◎ 1.11. unnamed
- 1.12. U#ytkownik chce oznaczy# odcinek jako obejrzany
- 1.13. U#ytkownik wybiera odcinek do oznaczenia
- 1.14. U#ytkownik wybiera serial
- 1.15. U#ytkownik wybiera sezon

## 1. Wyrażanie opinii o odcinku v2



\*\*\*\*\* Wyrażanie opinii ver 2\*\*\*\*\*

1. Użytkownik chce wyrazić opinię
2. System wyświetla listę obserwowanych seriali
3. Użytkownik wybiera serial
4. System wyświetla informacje o serialu i listę sezonów
5. Użytkownik wybiera sezon
6. System wyświetla listę obserwowanych odcinków
7. Użytkownik wybiera odcinek
8. System wyświetla odcinek
9. switch (Użytkownik wybiera akcję wyrażania opinii)
  - 9.1 case (Użytkownik chce dodać opinię)
    - 9.1.1 if (System stwierdza, że ocena do odcinka nie została jeszcze dodana)
      - 9.1.1.1 System wyświetla listę możliwych ocen
      - 9.1.1.2 Użytkownik wybiera ocenę
      - 9.1.1.3 System zapisuje ocenę
    - 9.1.2 else
      - 9.1.2.1 System informuje użytkownika, że może tylko raz ocenić odcinek
  - 9.2 case (Użytkownik chce dodać komentarz)
    - 9.2.1 if (System stwierdza, że komentarz do odcinka nie został jeszcze dodany)
      - 9.2.1.1 System wyświetla pole do wprowadzenia komentarza
      - 9.2.1.2 Użytkownik wpisuje komentarz
      - 9.2.1.3 System zapisuje komentarz
    - 9.2.2 else

9.2.2.1 System informuje użytkownika, że może tylko raz skomentować odcinek  
10. Przejść do punktu 8)

Rozszerzenia:

9a) Użytkownik chce zakończyć przeglądanie odcinka  
KONIEC SCENARIUSZA

## ■ 1.1. Region

## ■ 1.2. Swimplane2

■ 1.3. System informuje użytkownika, że może tylko raz ocenić odcinek

■ 1.4. System oznacza odcinek jako obejrzany

→ 1.5. System stwierdza, że komentarz do odcinka nie został jeszcze dodany

→ 1.6. System stwierdza, że ocena do odcinka nie została jeszcze dodana

→ 1.7. System stwierdza, że odcinek jest oznaczony jako obejrzany

■ 1.8. System wyświetla informacje o serialu i listę sezonów

■ 1.9. System wyświetla listę możliwych ocen

■ 1.10. System wyświetla listę obserwowanych seriali

■ 1.11. System wyświetla listę odcinków

■ 1.12. System wyświetla odcinek

■ 1.13. System wyświetla pole do wprowadzenie komentarza

■ 1.14. System zapisuje komentarz

■ 1.15. System zapisuje ocenę

● 1.16. unnamed

○ 1.17. unnamed

■ 1.18. Użytkownik chce wyrazić opinię o odcinku

■ 1.19. Użytkownik chce zakończyć przeglądanie odcinka

■ 1.20. Użytkownik dodaje komentarz

→ 1.21. Użytkownik wybiera akcję wyrażania opinii

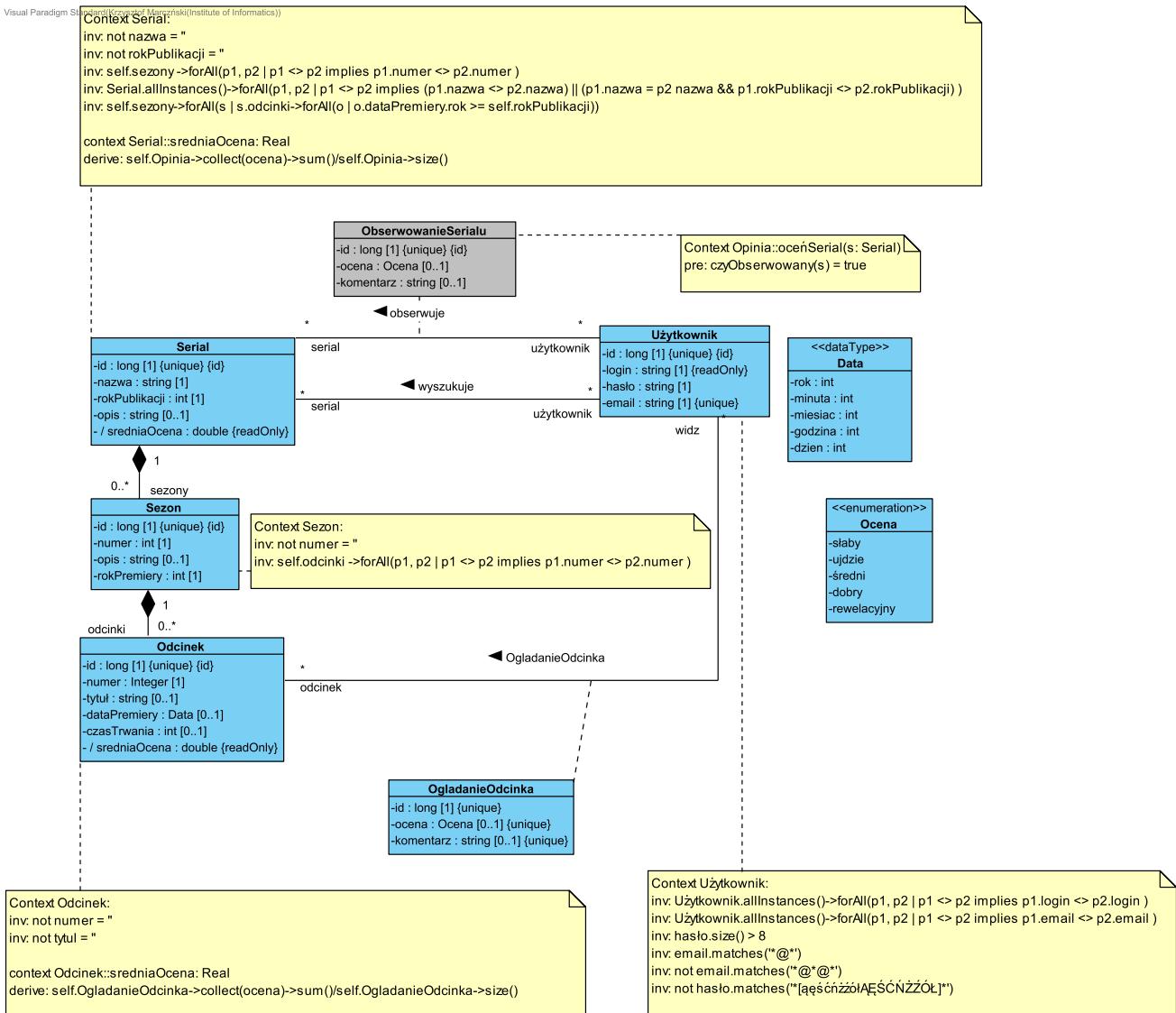
■ 1.22. Użytkownik wybiera ocenę

 1.23. Użytkownik wybiera odcinek

 1.24. Użytkownik wybiera serial

 1.25. Użytkownik wybiera sezon

# 1. Model informacyjny



## 1.1. Data

## 1.2. ObserwowanieSerialu

## 1.3. Ocena

## 1.4. Odcinek

## 1.5. OgladanieOdcinka

## 1.6. Serial

## 1.7. Sezon

## 1.8. Uzytkownik

# OCL

## **Context Użytkownik:**

inv: Uzytkownik.allInstances()->forAll(p1, p2 | p1 <> p2 implies p1.login <> p2.login )

inv: Uzytkownik.allInstances()->forAll(p1, p2 | p1 <> p2 implies p1.email <> p2.email )

inv: size(haslo) > 8

inv: email.matches('\*@\*')

inv: not email.matches('\*@\*@\*')

inv: not haslo.matches('\*[ąęśćńżółĄĘŚĆŃŻÓŁ]\*')

## **Context Serial:**

inv: not nazwa = "

inv: not rokPublikacji = "

inv: self.sezony ->forAll(p1, p2 | p1 <> p2 implies p1.numer <> p2.numer )

inv: Serial.allInstances()->forAll(p1, p2 | p1 <> p2 implies (p1.nazwa <> p2.nazwa) || (p1.nazwa = p2.nazwa && p1.rokPublikacji <> p2.rokPublikacji) )

inv: self.sezony->forAll(s | s.odcinki->forAll(o | o.dataPremiery.rok >= rokPublikacji))

## **Context Serial::sredniaOcena: Real**

derive: Opinia.allInstances()->collect(ocena)->sum()/size()

## **Context Sezon:**

inv: not numer = "

inv: self.odcinki ->forAll(p1, p2 | p1 <> p2 implies p1.numer <> p2.numer )

**Context Odcinek:**

inv: not numer = "

inv: not tytul = "

**Context Odcinek::sredniaOcena: Real**

derive: OgladanieOdcinka.allInstances()->collect(ocena)->sum()/size()

**Context Opinia::oceńSerial(s: Serial)**

pre: czyObserwowany(s) = true

(6)

Prototyp interfejsu

## Start

Jan Abacki  
jan.abacki@gmail.com

- Szukaj
- Start
- Lista Seriali
- Obserwowane

# Witaj, Jan!

Co ciekawego  
ostatnio oglądałeś???

## /Seriale

Jan Abacki  
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- Szukaj
- Start
- Lista Seriali
- Obserwowane

### Sherlock 2010

Średnia ocena: 4.9/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula.



### Przyjaciele 1994

Średnia ocena: 4.9/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula.



### Serial X 2012

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula.



### Serial X 2012

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula.



### Serial X 2012

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula.



## /Seriale

Jan Abacki  
jan.abacki@gmail.com

Szukaj  
Start  
Lista Seriali  
Obserwowane

### Sherlock 2010

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula



### Przyjaciele 1994

Średnia ocena: 4.9/5

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### Serial X 2012

Średnia ocena: 4.5/5

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### Serial X 2012

Średnia ocena: 4.5/5

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### Serial X 2012

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula



## /Obserwowane

Jan Abacki  
jan.abacki@gmail.com

Szukaj  
Start  
Lista Seriali  
Obserwowane

### Sherlock 2010

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula



## /Obserwowane

Jan Abacki

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- Szukaj
- Start
- Lista Seriali
- Obserwowane

### Sherlock 2010

Średnia ocena: 4.5/5

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula



### Przyjaciele 1994

Średnia ocena: 4.9/5

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## /Sherlock

Jan Abacki

jan.abacki@gmail.com

- Szukaj
- Start
- Lista Seriali
- Obserwowane

### Sherlock

2010



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

★ 4,5

14981 głosów

Moja ocena:



Mój komentarz:

Sezon 1	2010
Sezon 2	2011
Sezon 3	2012
Sezon 4	2012
Sezon 5	2012
Sezon 6	2012
Sezon 7	2012
Sezon 8	2012
Sezon 9	2012

## /Przyjaciele

Jan Abacki  
jan.abacki@gmail.com

- Szukaj
- Start
- Lista Seriali
- Obserwowane

### Przyjaciele

1994



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

Sezon 1	1994
Sezon 2	1995
Sezon 3	1996
Sezon 4	2012
Sezon 5	2012
Sezon 6	2012
Sezon 7	2012
Sezon 8	2012
Sezon 9	2012

★ 4,9  
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Moja ocena:



Mój komentarz:

## /Przyjaciele

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- Szukaj
- Start
- Lista Seriali
- Obserwowane

### Przyjaciele

1994



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Sezon 1	1994
Sezon 2	1995
Sezon 3	1996
Sezon 4	2012
Sezon 5	2012
Sezon 6	2012
Sezon 7	2012
Sezon 8	2012
Sezon 9	2012

★ 4,9  
14981 głosów

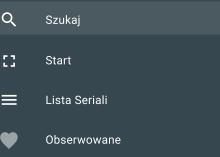
Moja ocena:



Mój komentarz:

## /Sherlock

Jan Abacki  
jan.abacki@gmail.com



Sherlock 2010

14981 głosów

Moja ocena:

★★★☆☆

Mój komentarz:

Sezon 1 2010

Odcinek 1

Odcinek 2

Odcinek 3

Sezon 2 2011

Sezon 3 2012

Sezon 4 2012

Sezon 5 2012

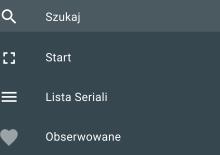
Sezon 6 2012

Sezon 7 2012

Sezon 8 2012

## /Przyjaciele

Jan Abacki  
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Przyjaciele 1994

14981 głosów

Moja ocena:

★★★☆☆

Mój komentarz:

Sezon 1 1994

Odcinek 1

Odcinek 2

Odcinek 3

Sezon 2 1995

Sezon 3 1996

Sezon 4 2012

Sezon 5 2012

Sezon 6 2012

Sezon 7 2012

Sezon 8 2012

Jan Abacki  
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- Szukaj
- Start
- Lista Seriali
- Obserwowane

## Przyjaciele

1994



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

Sezon 1

1994

Odcinek 1

Odcinek 2

Odcinek 3

Sezon 2

1995

Sezon 3

1996

Sezon 4

2012

Sezon 5

2012

Sezon 6

2012

Sezon 7

2012

Sezon 8

2012

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Moja ocena:



Mój komentarz:

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- Szukaj
- Start
- Lista Seriali
- Obserwowane

## Odcinek 1



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

★ 4,5

14981 głosów

Moja ocena:



Mój komentarz:

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Szukaj

Start

Lista Seriali

Obozowowane

### Odcinek 1



4,9

14981 głosów

Moja ocena:



Mój komentarz:

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Szukaj

Start

Lista Seriali

Obozowowane

### Odcinek 1



4,9

14981 głosów

Moja ocena:



Mój komentarz:



Jan Abacki

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 Szukaj Start Lista Seriali Obserwowane

## Odcinek 1



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

4,9

14981 głosów

Moja ocena:



Mój komentarz:

Nie można ponownie oznaczyć odcinka jako obejrzanego!

OK



Jan Abacki

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 Szukaj Start Lista Seriali Obserwowane

## Odcinek 1



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

4,9

14981 głosów

Moja ocena:



Mój komentarz:

Jan Abacki

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Szukaj

Start

Lista Seriali

Obserwowane

## Odcinek 1



★ 4,5

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Moja ocena:



Mój komentarz:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

Jan Abacki

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Szukaj

Start

Lista Seriali

Obserwowane

## Odcinek 1



★ 4,5

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Moja ocena:



Mój komentarz:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

Raz skomentowanego odcinka nie można skomentować ponownie!

OK

Jan Abacki  
jan.abacki@gmail.com

- Szukaj
- Start
- Lista Seriali
- Obserwowane

## Odcinek 1



★ 4,4

14982 głosów

Moja ocena:



Mój komentarz:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

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Jan Abacki  
jan.abacki@gmail.com

- Szukaj
- Start
- Lista Seriali
- Obserwowane

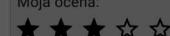
## Odcinek 1



★ 4,4

14982 głosów

Moja ocena:



Mój komentarz:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sagittis lacus massa, non imperdiet tellus facilisis consectetur. Cras at tempor lorem, eu pulvinar diam. Phasellus elementum lacus a velit fermentum hendrerit. Maecenas ac metus placerat ligula consequat sodales vitae nec neque. Aliquam erat volutpat. Phasellus congue eget enim id blandit. Proin at feugiat enim. Vestibulum ut mauris ut mauris egestas maximus. Ut vel nibh eu leo fringilla feugiat. Vestibulum sit amet tincidunt diam, at pulvinar nisi. Aliquam erat

Raz ocenionego odcinka nie można oocnić ponownie!

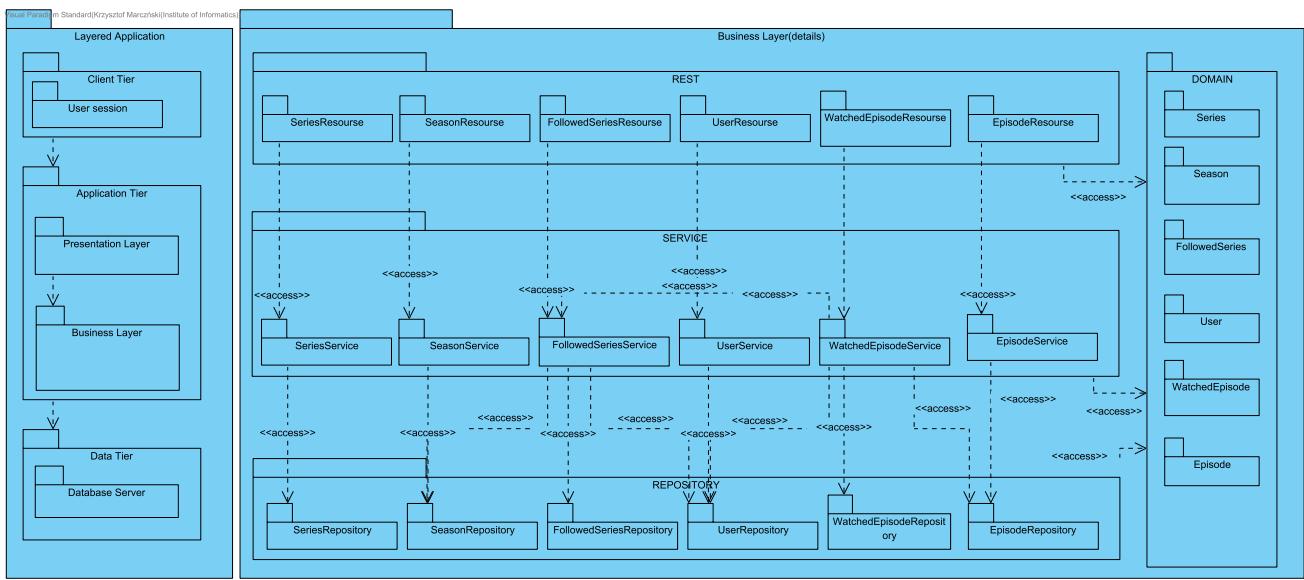
OK

(7)

Architektura systemu.

Projekt bazy danych

# 1. Diagram pakietów - Layers



## 1.1. Application Tier

## 1.2. Business Layer

Logika biznesowa jest zrealizowana przez backend.

## 1.3. Business Layer(details)

## 1.4. Client Tier

## 1.5. Data Tier

## 1.6. Database Server

Serwer przechowujących dane wprowadzany wcześniej przez administratora i wysyłający dane do business layer na polecenie business layer.

## 1.7. DOMAIN

## 1.8. Episode

## 1.9. EpisodeRepository

## 1.10. EpisodeResource

## 1.11. EpisodeService

## 1.12. FollowedSeries

## 1.13. FollowedSeriesRepository

## 1.14. FollowedSeriesResource

## — 1.15. FollowedSeriesService

## — 1.16. Layered Application

## — 1.17. Presentation Layer

Logika za rozmieszczeniem i wygl#dem elementów, przez taki "interfejs" users wykonuj# akcje application tier.

## — 1.18. REPOSITORY

## — 1.19. REST

Odpowiada

## — 1.20. Season

## — 1.21. SeasonRepository

## — 1.22. SeasonResource

## — 1.23. SeasonService

## — 1.24. Series

## — 1.25. SeriesRepository

## — 1.26. SeriesResource

## — 1.27. SeriesService

## — 1.28. SERVICE

## — 1.29. User

## — 1.30. User session

U#ytkownicy to ludzie nale#acy do client tier. Przez internet maj# dost#p do presentation layer.

## — 1.31. UserRepository

## — 1.32. UserResource

## — 1.33. UserService

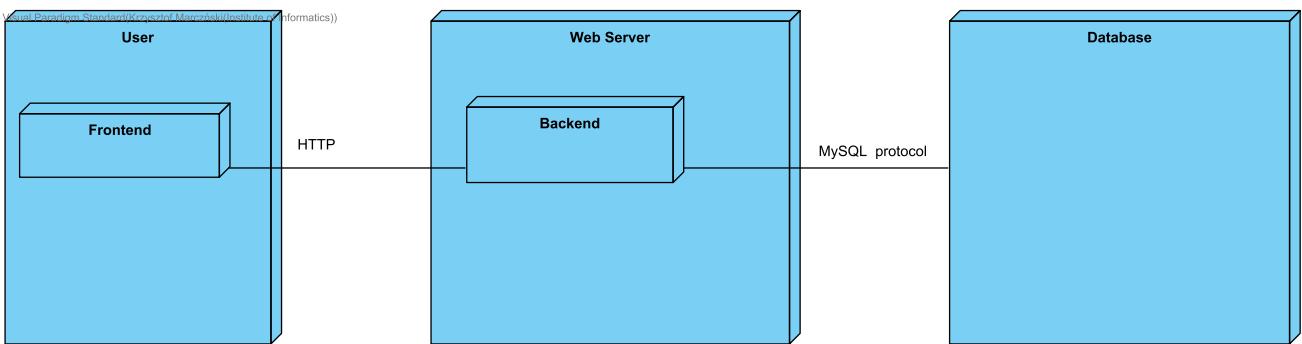
## — 1.34. WatchedEpisode

## — 1.35. WatchedEpisodeRepository

## — 1.36. WatchedEpisodeResource

## — 1.37. WatchedEpisodeService

## 1. Architektura fizyczna



### 1.1. Backend

Logika aplikacji. Znajduje się na web serwerze, w tej wersji na localhostie w komputerze administratora.

### 1.2. Database

Dana bazy SQL wykonana w dialekcie MySQL, w tej wersji będzie znajdować się na localhostie na komputerze administratora.

### 1.3. Frontend

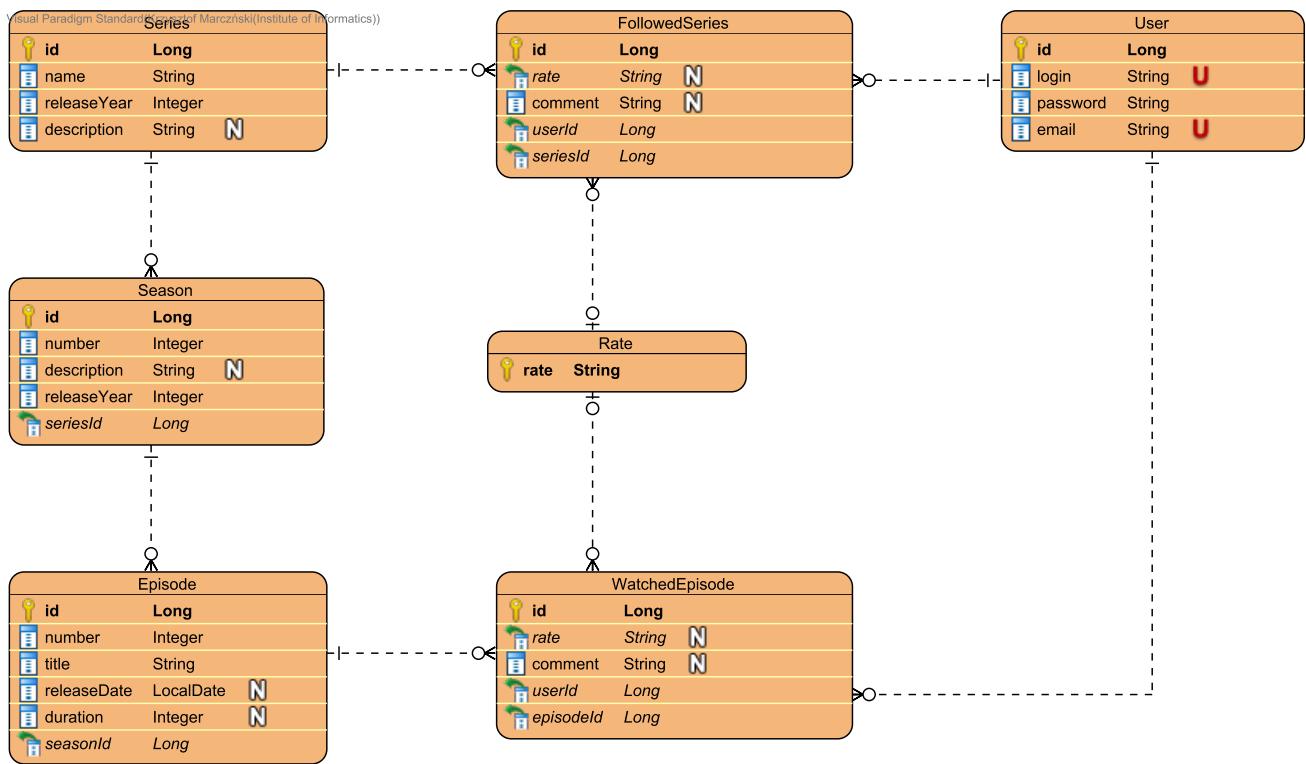
Część odpowiedzialna za wygląd aplikacji. Znajduje się na web serwerze, w tym wypadku w localhostie na komputerze administratora.

### 1.4. User

Użytkownik jest człowiekiem korzystającym z aplikacji. Znajduje się gdziekolwiek na świecie i korzysta z połączenia internetowego przez HTTPS.

### 1.5. Web Server

# 1. ERD from oracle



## 1.1. Episode

## 1.2. FollowedSeries

## 1.3. Rate

## 1.4. Season

## 1.5. Series

## 1.6. User

## 1.7. WatchedEpisode

```

1  /* Schemat bazy danych wygenerowany z modelu informacyjnego */
2
3  CREATE TABLE Uzytkownicy
4  (
5      login varchar2(100),
6      haslo varchar2(100) NOT NULL,
7      email varchar2(100) NOT NULL UNIQUE,
8      PRIMARY KEY(login)
9  );
10
11 CREATE TABLE Seriale
12 (
13     nazwa varchar2(100),
14     rokProdukcji integer,
15     opis varchar2(1000),
16     PRIMARY KEY(nazwa, rokProdukcji)
17 );
18
19 CREATE TABLE Ocena
20 (
21     rodzaj varchar2(100),
22     PRIMARY KEY(rodzaj)
23 );
24
25 CREATE TABLE OpinieSeriale
26 (
27     serialNazwa varchar2(100),
28     serialRok integer,
29     uzytkownikLogin varchar2(100),
30     ocenaRodzaj varchar2(100),
31     komentarz varchar2(1000),
32     PRIMARY KEY(serialNazwa, serialRok, uzytkownikLogin),
33     FOREIGN KEY(serialNazwa, serialRok) REFERENCES Seriale(nazwa, rokProdukcji),
34     FOREIGN KEY(uzytkownikLogin) REFERENCES Uzytkownicy(login),
35     FOREIGN KEY(ocenaRodzaj) REFERENCES Ocena(rodzaj)
36 );
37
38 CREATE TABLE Sezony
39 (
40     serialNazwa varchar2(100),
41     serialRok integer,
42     numer integer,
43     opis varchar2(1000),
44     rokPremiery integer NOT NULL,
45     PRIMARY KEY(serialNazwa, serialRok, numer),
46     FOREIGN KEY(serialNazwa, serialRok) REFERENCES Seriale(nazwa, rokProdukcji)
47 );
48
49 CREATE TABLE Odcinki
50 (
51     serialNazwa varchar2(100),
52     serialRok integer,
53     numerSezonu integer,
54     numer integer,
55     tytul varchar2(100),
56     dataPremiery date,
57     czasTrwania integer,
58     PRIMARY KEY(serialNazwa, serialRok, numerSezonu, numer),
59     FOREIGN KEY(serialNazwa, serialRok, numerSezonu) REFERENCES Sezony(serialNazwa,
60     serialRok, numer)
61 );
62
63 CREATE TABLE OpinieOdcinki
64 (
65     serialNazwa varchar2(100),
66     serialRok integer,
67     numerSezonu integer,
68     numerOdcinka integer,
69     uzytkownikLogin varchar2(100),
70     ocenaRodzaj varchar2(100),
71     komentarz varchar2(1000),
72     PRIMARY KEY(serialNazwa, serialRok, numerSezonu, numerOdcinka, uzytkownikLogin),
73     FOREIGN KEY(serialNazwa, serialRok, numerSezonu, numerOdcinka) REFERENCES

```

```
73 Odcinki(serialNazwa, serialRok, numerSezonu, numer),  
74 FOREIGN KEY(uzytkownikLogin) REFERENCES Uzytkownicy(login),  
75 FOREIGN KEY(ocenaRodzaj) REFERENCES Ocena(rodzaj)  
76  
77 );
```

(8)

Implementacja  
interfejsu zgodnie z  
projektem

Welcome, Java Hipster! > /

localhost:9000/#/

The screenshot shows the application's homepage. On the left is a dark sidebar with a clock icon, the text "Account", a search bar, and links for "Home", "Series", and "Followed Series". The main content area has a large "Welcome, Tele-Hipster!" heading. Below it is a message: "Please, sign in or register to see series & episodes and mark series as followed or episodes as watched". A note says: "This is your homepage". There are two yellow callout boxes: one containing default login information ("Administrator (login='admin' and password='admin')" and "User (login='user' and password='user')") and another asking if you don't have an account yet ("Register a new account").

# Welcome, Tele-Hipster!

Please, sign in or register to see series & episodes and mark series as followed or episodes as watched

This is your homepage

If you want to [sign in](#), you can try the default accounts:

- Administrator (login="admin" and password="admin")
- User (login="user" and password="user").

You don't have an account yet? [Register a new account](#)

Welcome, Java Hipster! > /

localhost:9000/#/

The screenshot shows a modal dialog titled "Sign in" over the application's homepage. The dialog contains fields for "Login" (with "user" typed) and "Password" (with "...." typed). There is a "Remember me" checkbox and a "SIGN IN" button. Below the dialog are two yellow callout boxes: one for forgot password ("Did you forget your password?") and one for account creation ("You don't have an account yet? Register a new account"). The background of the application is dimmed.

### Sign in

Login  
user

Password  
....

Remember me

[SIGN IN](#)

Did you forget your password?

You don't have an account yet?  
[Register a new account](#)

Welcome, Java Hipster! +/-

localhost:9000/#/

sulu  
sulu@space

Search...

Home Series Followed Series

> /

# Welcome, Sulu!

What have you watched lately?

Series +/-

localhost:9000/#/series

sulu  
sulu@space

Search...

Home Series Followed Series

> /series

<b>Discovery</b>	2019	
Rate: N/A		
USS Discovery discovers new worlds and lifeforms as one Starfleet officer learns to understand all things alien.		
<hr/>		
<b>Doctor Who</b>	2005	
Rate: N/A		
<hr/>		
<b>Sherlock</b>	2010	
Rate: 1.0/5.0		
A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.		
<hr/>		
<b>Star Trek</b>	1966	
Rate: 4.0/5.0		
Star Trek is an American space opera media franchise based on the science fiction television series created by Gene Roddenberry.		

Sulu application interface showing the followed series list.

Header: FollowedSeries > /followed-series

User: sulu  
sulu@space

Search bar: Search...

Navigation: Home, Series, Followed Series

Content: Star Trek (1966)  
Rate: 4.0/5.0  
Star Trek is an American space opera media franchise based on the science fiction television series created by Gene Roddenberry.

Sulu application interface showing the series details for Sherlock (2010).

Header: Series > /series/2010/Sherlock

User: sulu  
sulu@space

Search bar: Search...

Navigation: Home, Series, Followed Series

Content: Sherlock (2010)  
A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

Season 1 (2010):  
- Episode 1 (2010-06-21)  
- Episode 2 (2010-07-21)  
- Episode 3 (2010-08-21)

Season 2 (2010):

Season 3 (2010):

Rating: ★ 1.0  
Votes: 2  
Your rate:  
★★★☆☆  
Your comment:

Serie

localhost:9000/#/series/2010/Sherlock

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2010/Sherlock

# Sherlock

2010

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

Season 1 2010

Invalided home from the war in Afghanistan, Dr. John Watson becomes roommates with the world's only "consulting detective," Sherlock Holmes.

Episode 1	2010-06-21
Episode 2	2010-07-21
Episode 3	2010-08-21

Season 2 2010

Season 3 2010

★ 1.7

Votes: 3  
Your rate: AVERAGE

★★★☆☆

Your comment:

Serie

localhost:9000/#/series/2010/Sherlock

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2010/Sherlock

Error

Once rated, series can't be rated again!

# Sherlock

2010

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

Season 1 2010

Invalided home from the war in Afghanistan, Dr. John Watson becomes roommates with the world's only "consulting detective," Sherlock Holmes.

Episode 1	2010-06-21
Episode 2	2010-07-21
Episode 3	2010-08-21

Season 2 2010

Season 3 2010

★ 1.7

Votes: 3  
Your rate: AVERAGE

★★★☆☆

Your comment:

Serie

localhost:9000/#/series/2010/Sherlock

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2010/Sherlock

# Sherlock

2010

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

Season 1	2010
Invalided home from the war in Afghanistan, Dr. John Watson becomes roommates with the world's only "consulting detective," Sherlock Holmes.	
Episode 1	2010-06-21
Episode 2	2010-07-21
Episode 3	2010-08-21

Season 2	2010

Season 3	2010

★ 1.7

Votes: 3  
Your rate: AVERAGE

★★★☆☆

Your comment:  
test

Serie

localhost:9000/#/series/2010/Sherlock

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2010/Sherlock

Error

Once commented, series can't be commented again!

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

Season 1	2010
Invalided home from the war in Afghanistan, Dr. John Watson becomes roommates with the world's only "consulting detective," Sherlock Holmes.	
Episode 1	2010-06-21
Episode 2	2010-07-21
Episode 3	2010-08-21

Season 2	2010

Season 3	2010

★ 1.7

Votes: 3  
Your rate: AVERAGE

★★★☆☆

Your comment:  
test

Series

localhost:9000/#/series/2010/Sherlock

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2010/Sherlock

Error

Once followed, series can't be followed again!

Season 1 2010

Season 2 2010

Season 3 2010

Heart icon

★ 1.7

Votes: 3  
Your rate: AVERAGE

★★★☆☆

Your comment:  
test

This screenshot shows a web application interface for managing TV series. On the left is a sidebar with user information (sulu, sulu@space), a search bar, and navigation links for Home, Series, and Followed Series. The main content area shows a series page for 'Sherlock' (2010). A modal window titled 'Error' displays the message 'Once followed, series can't be followed again!'. Below the modal, there's a summary of the series: 'A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.' followed by a list of seasons (Season 1, 2010; Season 2, 2010; Season 3, 2010). To the right of the seasons is a rating section showing a star icon with a value of 1.7, 3 votes, and an average rating. There's also a text input field for comments, containing the word 'test'.

Series

localhost:9000/#/series/2005/Doctor%20Who

sulu  
sulu@space

Search...

Home

Series

Followed Series

> /series/2005/Doctor Who

Doctor Who 2005 Heart icon

Season 1 2005

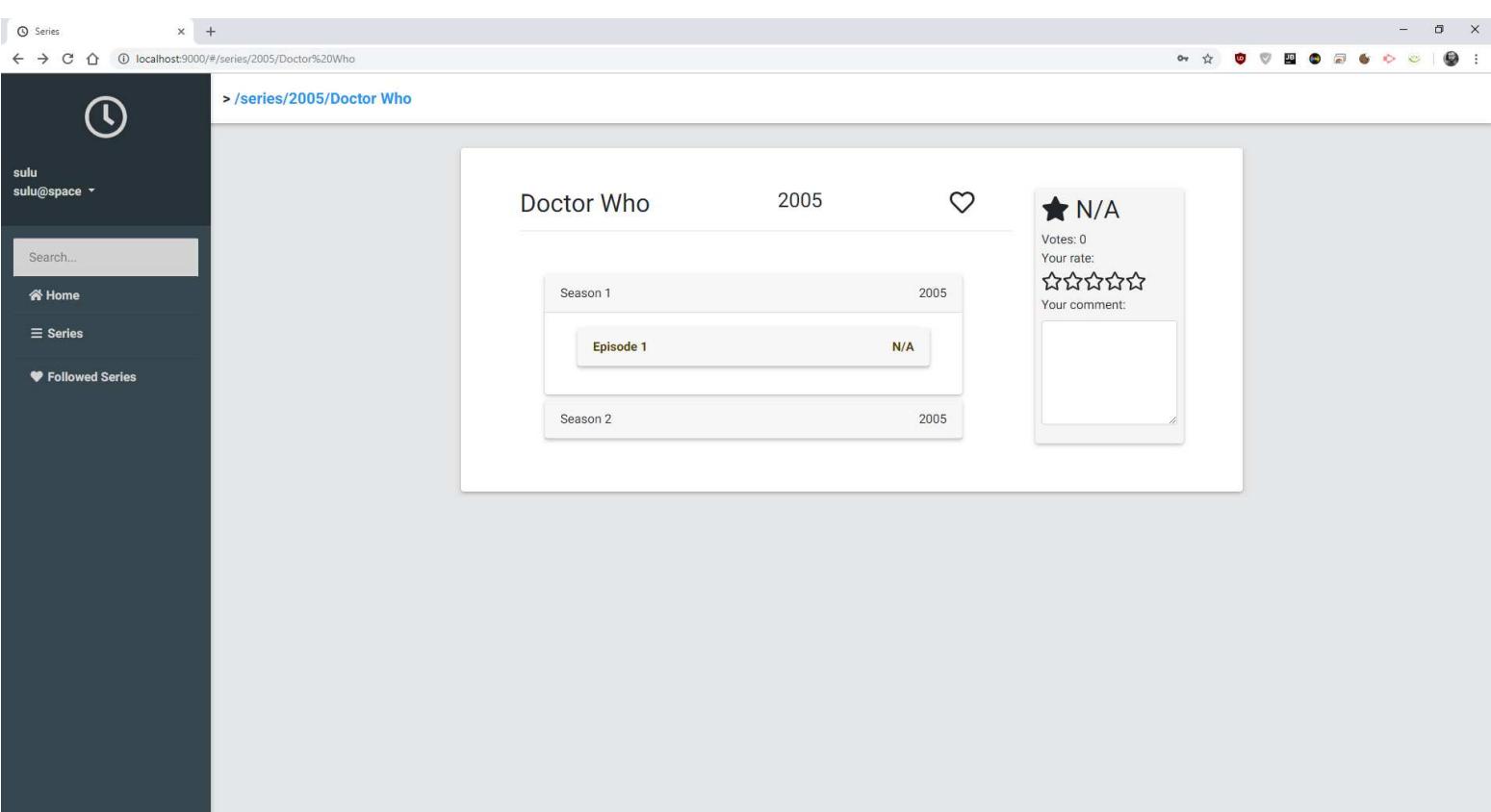
Episode 1 N/A

Season 2 2005

★ N/A

Votes: 0  
Your rate:  
★★★☆☆

Your comment:



This screenshot shows a web application interface for managing TV series. On the left is a sidebar with user information (sulu, sulu@space), a search bar, and navigation links for Home, Series, and Followed Series. The main content area shows a series page for 'Doctor Who' (2005). The page includes the series title, year (2005), a heart icon, and a list of seasons (Season 1, 2005; Season 2, 2005). Below the seasons is a detailed view of Season 1, showing Episode 1 with an 'N/A' rating. To the right is a rating section showing a star icon with a value of N/A, 0 votes, and no rating. There's also a text input field for comments.

Episodes

localhost:9000/#/series/2005/Doctor%20Who/season/1/episode/1

sulu  
sulu@space

Search...

Home Series Followed Series

> /series/2005/Doctor Who/season/1/episode/1

## Episode 1

✓

**Title**  
The Woman Who Fell to Earth

**Release Date**  
N/A

**Duration**  
N/A

★ 1.0  
Votes: 1  
Your rate:  
★★★★★  
Your comment:

Episodes

localhost:9000/#/series/2005/Doctor%20Who/season/1/episode/1

sulu  
sulu@space

Search...

Home Series Followed Series

> /series/2005/Doctor Who/season/1/episode/1

## Episode 1

✓

**Title**  
The Woman Who Fell to Earth

**Release Date**  
N/A

**Duration**  
N/A

★ 1.0  
Votes: 1  
Your rate:  
★★★★★  
Your comment:

FollowedSeries > /followed-series

sulu sulu@space

Search...

Home Series Followed Series

Doctor Who 2005 

Rate: N/A

---

Sherlock 2010 

Rate: 1.7/5.0

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

---

Star Trek 1966 

Rate: 4.0/5.0

Star Trek is an American space opera media franchise based on the science fiction television series created by Gene Roddenberry.

Series > /search/sher

sulu sulu@space

sher

Home Series Followed Series

Sherlock 2010 

Rate: 1.7/5.0

A modern update finds the famous sleuth and his doctor partner solving crime in 21st century London.

(9)

# Podłączenie logiki aplikacji do interfejsu

```

1 <!--episode-detail.component.html-->
2
3 <div class="row justify-content-center">
4     <div class="col-11 no-padding">
5         <div *ngIf="episode" class="row">
6             <div class="col-md-9">
7                 <h2 class="d-block">
8                     <div class="row">
9                         <span class="col-10">Episode {{episode.number}}</span>
10                        <fa-icon class="col-2" *ngIf="watchedEpisode"
11
12                            [icon]="watchedEpisode.id?['fas','check-circle']:['fa
13                                r','check-circle']"
14                            (click)="setFollowed()"></fa-icon>
15
16             </div>
17         </h2>
18         <hr>
19         <jhi-alert-error></jhi-alert-error>
20         <dl class="row-md jh-entity-details">
21             <dt><span>Title</span></dt>
22             <dd>
23                 <span>{{episode.title}}</span>
24             </dd>
25             <dt><span>Release Date</span></dt>
26             <dd>
27                 <span *ngIf="episode.releaseDate">{{episode.releaseDate | |
28                     date : 'fullDate'}}<br>{{episode.releaseDate | date :
29                     'shortTime'}}</span>
30                 <span *ngIf="!episode.releaseDate">N/A</span>
31             </dd>
32             <dt><span>Duration</span></dt>
33             <dd>
34                 <span *ngIf="episode.duration">{{episode.duration}} min</span>
35                 <span *ngIf="!episode.duration">N/A</span>
36             </dd>
37         </dl>
38
39         <button *jhiHasAnyAuthority="'ROLE_ADMIN'" type="submit"
40             (click)="previousState()"
41             class="btn btn-info">
42             <fa-icon [icon]="'arrow-left'></fa-icon>&ampnbsp<span> Back</span>
43         </button>
44
45         <button *jhiHasAnyAuthority="'ROLE_ADMIN'" type="button"
46             [routerLink]=["'/episode', episode.id, 'edit']"
47             class="btn btn-primary">
48             <fa-icon [icon]="'pencil-alt'></fa-icon>&ampnbsp<span> Edit</span>
49         </button>
50     </div>
51     <div class="col-md-3">
52         <div class="card opinion" *ngIf="watchedEpisode">
53             <div>
54                 <h3>
55                     <fa-icon [icon]="'[fas,star]'"></fa-icon>
56                     <span *ngIf="averageRate"> {{averageRate | number :
57                         '1.1-1'}}</span>
58                     <span *ngIf="!averageRate"> N/A</span>
59                 </h3>
60                 <div>
61                     Votes: {{rateCount}}
62                 </div>
63                 <div>
64                     Your rate: {{watchedEpisode.rate}}
65                 </div>
66                 <div class="stars">
67                     <fa-icon *ngFor="let i of [1,2,3,4,5]"
68
69                         [icon]="shouldStarBeFilled(i)?['fas','star']:['fa
70                             r','star']"
71                         (click)="setRate(i)"></fa-icon>
72                 </div>
73             </div>
74         <form>

```

```
66      <div class="form-group">
67          <label for="comment">Your comment:</label>
68          <div (click)="showErrorModal()">
69              <textarea class="form-control" rows="5"
70                  id="comment"
71                  #comment
72                  (keydown.enter)="saveComment(comment.value)"
73
74          [disabled]="watchedEpisode.comment & { watchedEpisode.comment } </textarea>
75          </div>
76      </form>
77  </div>
78  </div>
79  </div>
80  </div>
81  </div>
82</div>
83
```

```

1 // episode-detail.component.ts
2
3 import {Component, OnInit} from '@angular/core';
4 import {ActivatedRoute} from '@angular/router';
5
6 import {IEpisode} from 'app/shared/model/episode.model';
7 import {HttpErrorResponse, HttpResponse} from "@angular/common/http";
8 import {IWatchedEpisode, Rate} from "app/shared/model/watched-episode.model";
9 import {JhiAlertService} from "ng-jhipster";
10 import {EpisodeService} from "app/entities/episode/episode.service";
11 import {WatchedEpisodeService} from "app/entities/watched-episode";
12 import {ErrorModalService} from "app/core/error-modal/error-modal.service";
13
14 @Component({
15   selector: 'jhi-episode-detail',
16   templateUrl: './episode-detail.component.html'
17 })
18 export class EpisodeDetailComponent implements OnInit {
19   episode: IEpisode;
20   watchedEpisode: IWatchedEpisode;
21   averageRate: number;
22   private rateCount: number;
23
24   constructor(private activatedRoute: ActivatedRoute, private episodeService: EpisodeService, private jhiAlertService: JhiAlertService, private watchedEpisodeService: WatchedEpisodeService, private errorModalService: ErrorModalService) {
25   }
26
27   ngOnInit() {
28     this.activatedRoute.data.subscribe(({episode}) => {
29       this.episode = episode;
30       this.loadWatched();
31       this.updateCommunityRate();
32     });
33   }
34
35   shouldStarBeFilled(starNr: number): boolean {
36     if (this.watchedEpisode.rate) {
37       switch (this.watchedEpisode.rate) {
38         case 'BAD':
39           return starNr <= 1;
40         case 'MEDIocre':
41           return starNr <= 2;
42         case 'AVERAGE':
43           return starNr <= 3;
44         case 'GOOD':
45           return starNr <= 4;
46         case 'AWESOME':
47           return starNr <= 5;
48       }
49     }
50     else return false;
51   }
52
53   setRate(i: number) {
54     if (this.watchedEpisode.id && this.watchedEpisode.rate) {
55       this.errorModalService.open("Once rated, episode can't be rated again!");
56     }
57     else {
58       switch (i) {
59         case 1:
60           this.watchedEpisode.rate = Rate.BAD;
61           break;
62         case 2:
63           this.watchedEpisode.rate = Rate.MEDIocre;
64           break;
65         case 3:
66           this.watchedEpisode.rate = Rate.AVERAGE;
67           break;
68         case 4:
69           this.watchedEpisode.rate = Rate.GOOD;
70           break;
71       }
72     }
73   }
74
75   updateCommunityRate() {
76     this.episodeService.getRateCount(this.episode.id).subscribe((rateCount) => {
77       this.rateCount = rateCount;
78     });
79   }
80
81   loadWatched() {
82     this.watchedEpisodeService.get(this.episode.id).subscribe((watchedEpisode) => {
83       this.watchedEpisode = watchedEpisode;
84     });
85   }
86
87   openSuccessModal() {
88     this.jhiAlertService.success('Episode successfully updated!');
89   }
90
91   openErrorModal() {
92     this.jhiAlertService.error('Failed to update episode');
93   }
94
95   openDeleteModal() {
96     this.jhiAlertService.confirm('Are you sure you want to delete this episode?').then((result) => {
97       if (result) {
98         this.episodeService.delete(this.episode.id).subscribe(() => {
99           this.jhiAlertService.success('Episode deleted successfully');
100        });
101      }
102    });
103  }
104
105  openRateModal() {
106    this.jhiAlertService.confirm(`Rate this episode`).then((result) => {
107      if (result) {
108        this.setRate(1);
109      }
110    });
111  }
112
113  openRateForm() {
114    this.jhiAlertService.confirm(`Rate this episode`).then((result) => {
115      if (result) {
116        this.setRate(2);
117      }
118    });
119  }
120
121  openRateGood() {
122    this.jhiAlertService.confirm(`Rate this episode`).then((result) => {
123      if (result) {
124        this.setRate(3);
125      }
126    });
127  }
128
129  openRateAwesome() {
130    this.jhiAlertService.confirm(`Rate this episode`).then((result) => {
131      if (result) {
132        this.setRate(4);
133      }
134    });
135  }
136
137  openRateExcellent() {
138    this.jhiAlertService.confirm(`Rate this episode`).then((result) => {
139      if (result) {
140        this.setRate(5);
141      }
142    });
143  }
144
145  openRateAgain() {
146    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
147      if (result) {
148        this.setRate(1);
149      }
150    });
151  }
152
153  openRateAgainGood() {
154    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
155      if (result) {
156        this.setRate(2);
157      }
158    });
159  }
160
161  openRateAgainAwesome() {
162    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
163      if (result) {
164        this.setRate(3);
165      }
166    });
167  }
168
169  openRateAgainExcellent() {
170    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
171      if (result) {
172        this.setRate(4);
173      }
174    });
175  }
176
177  openRateAgainExcellent() {
178    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
179      if (result) {
180        this.setRate(5);
181      }
182    });
183  }
184
185  openRateAgainExcellent() {
186    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
187      if (result) {
188        this.setRate(1);
189      }
190    });
191  }
192
193  openRateAgainExcellent() {
194    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
195      if (result) {
196        this.setRate(2);
197      }
198    });
199  }
200
201  openRateAgainExcellent() {
202    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
203      if (result) {
204        this.setRate(3);
205      }
206    });
207  }
208
209  openRateAgainExcellent() {
210    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
211      if (result) {
212        this.setRate(4);
213      }
214    });
215  }
216
217  openRateAgainExcellent() {
218    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
219      if (result) {
220        this.setRate(5);
221      }
222    });
223  }
224
225  openRateAgainExcellent() {
226    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
227      if (result) {
228        this.setRate(1);
229      }
230    });
231  }
232
233  openRateAgainExcellent() {
234    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
235      if (result) {
236        this.setRate(2);
237      }
238    });
239  }
240
241  openRateAgainExcellent() {
242    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
243      if (result) {
244        this.setRate(3);
245      }
246    });
247  }
248
249  openRateAgainExcellent() {
250    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
251      if (result) {
252        this.setRate(4);
253      }
254    });
255  }
256
257  openRateAgainExcellent() {
258    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
259      if (result) {
260        this.setRate(5);
261      }
262    });
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412        this.setRate(4);
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476        this.setRate(2);
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508        this.setRate(1);
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510    });
511  }
512
513  openRateAgainExcellent() {
514    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
515      if (result) {
516        this.setRate(2);
517      }
518    });
519  }
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550    });
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553  openRateAgainExcellent() {
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555      if (result) {
556        this.setRate(2);
557      }
558    });
559  }
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695  openRateAgainExcellent() {
696    this.jhiAlertService.confirm(`Rate this episode again`).then((result) => {
697      if (result) {
698        this.setRate(1);
699      }
700    });
701  }

```

```

71
72         case 5:
73             this.watchedEpisode.rate = Rate.AWESOME;
74             break;
75         }
76     }
77 }
78
79 saveWatchedEpisode() {
80     if (this.watchedEpisode.id) {
81         this.watchedEpisodeService.update(this.watchedEpisode).subscribe(
82             (res: HttpResponse<IWatchedEpisode>) => {
83                 this.watchedEpisode = res.body;
84                 this.updateCommunityRate();
85             }
86         );
87     } else {
88         this.watchedEpisodeService.create(this.watchedEpisode).subscribe((res:
89             HttpResponse<IWatchedEpisode>) => {
90                 this.watchedEpisode = res.body;
91                 this.updateCommunityRate();
92             });
93     }
94 }
95
96 saveComment(value: string) {
97     if (this.watchedEpisode.id && this.watchedEpisode.comment) {
98         this.errorModalService.open("Once commented, episode can't be commented
99             again!");
100    }
101    else {
102        this.watchedEpisode.comment = value;
103        this.saveWatchedEpisode();
104    }
105 }
106
107 setFollowed() {
108     if (this.watchedEpisode && this.watchedEpisode.id) {
109         this.errorModalService.open("Once watched, episode can't be watched
110             again!");
111     }
112     else {
113         this.saveWatchedEpisode();
114     }
115 }
116
117 updateCommunityRate() {
118     this.getAverageRate();
119     this.getRateCount();
120 }
121
122 getAverageRate() {
123     if (this.episode && this.episode.id) {
124         this.watchedEpisodeService.getAverageRate(this.episode.id).subscribe(
125             (res: HttpResponse<any>) => {
126                 this.averageRate = res.body;
127             }
128         );
129     }
130 }
131
132 getRateCount() {
133     if (this.episode && this.episode.id) {
134         this.watchedEpisodeService.getRateCount(this.episode.id).subscribe(
135             (res: HttpResponse<any>) => {
136                 this.rateCount = res.body;
137             }
138         );
139 }
140
141 loadWatched() {
142     this.watchedEpisodeService.findById(this.episode.id).subscribe(

```

```
141     (res: HttpResponse<IWatchedEpisode>) => {
142         this.watchedEpisode = res.body;
143     },
144     (res: HttpErrorResponse) => this.onError(res.message)
145 );
146 }
147
148 private onError(errorMessage: string) {
149     this.jhiAlertService.error(errorMessage, null, null);
150 }
151
152 previousState() {
153     window.history.back();
154 }
155
156 showErrorModal() {
157     if (this.watchedEpisode.id && this.watchedEpisode.comment) {
158         this.errorModalService.open("Once commented, episode can't be commented
159             again!");
160     }
161 }
162 }
```

```

1 //watched-episode.service.ts
2
3 import { Injectable } from '@angular/core';
4 import { HttpClient, HttpResponseMessage } from '@angular/common/http';
5 import { Observable } from 'rxjs';
6
7 import { SERVER_API_URL } from 'app/app.constants';
8 import { createRequestOption } from 'app/shared';
9 import { IWatchedEpisode } from 'app/shared/model/watched-episode.model';
10 import { map } from "rxjs/operators";
11 import * as moment from "moment";
12
13 type EntityResponseType = HttpResponseMessage<IWatchedEpisode>;
14 type EntityArrayResponseType = HttpResponseMessage<IWatchedEpisode[]>;
15
16 @Injectable({ providedIn: 'root' })
17 export class WatchedEpisodeService {
18   public resourceUrl = SERVER_API_URL + 'api/watched-episodes';
19
20   constructor(private http: HttpClient) {}
21
22   create(watchedEpisode: IWatchedEpisode): Observable<EntityResponseType> {
23     return this.http.post<IWatchedEpisode>(this.resourceUrl, watchedEpisode, {
24       observe: 'response'
25     });
26
27   update(watchedEpisode: IWatchedEpisode): Observable<EntityResponseType> {
28     return this.http.put<IWatchedEpisode>(this.resourceUrl, watchedEpisode, {
29       observe: 'response'
30     });
31
32   find(id: number): Observable<EntityResponseType> {
33     return this.http.get<IWatchedEpisode>(`${this.resourceUrl}/${id}`, {
34       observe: 'response'
35     });
36
37   findByEpisodeId(id: number): Observable<EntityResponseType> {
38     return this.http
39       .get<IWatchedEpisode>(`${this.resourceUrl}/episode/${id}`, { observe:
40         'response'
41       })
42       .pipe(map((res: EntityResponseType) =>
43         WatchedEpisodeService.convertDateFromServer(res)));
44
45   getAverageRate(episodeId: number): Observable<EntityResponseType> {
46     return
47       this.http.get<IWatchedEpisode>(`${this.resourceUrl}/${episodeId}/average-rate`,
48         { observe: 'response' });
49
50   getCount(episodeId: number): Observable<EntityResponseType> {
51     return
52       this.http.get<IWatchedEpisode>(`${this.resourceUrl}/${episodeId}/rate-count`,
53         { observe: 'response' });
54
55   query(req?: any): Observable<EntityArrayResponseType> {
56     const options = createRequestOption(req);
57     return this.http.get<IWatchedEpisode[]>(this.resourceUrl, { params: options,
58       observe: 'response'
59     });
60
61   delete(id: number): Observable<HttpResponse<any>> {
62     return this.http.delete<any>(`${this.resourceUrl}/${id}`, { observe:
63       'response'
64     });
65
66   protected static convertDateFromServer(res: EntityResponseType):
67     EntityResponseType {
68     if (res.body) {
69       res.body.episode.releaseDate = res.body.episode.releaseDate != null ?
70         moment(res.body.episode.releaseDate) : null;
71     }
72   }
73 }
```

```
61         return res;
62     }
63 }
64
```

```

1 //WatchedEpisodeResource.java
2
3 package pl.marczynski.seriesapp.web.rest;
4
5 import com.codahale.metrics.annotation.Timed;
6 import pl.marczynski.seriesapp.domain.WatchedEpisode;
7 import pl.marczynski.seriesapp.service.WatchedEpisodeService;
8 import pl.marczynski.seriesapp.web.rest.errors.BadRequestAlertException;
9 import pl.marczynski.seriesapp.web.rest.jhipster.util.HeaderUtil;
10 import io.github.jhipster.web.util.ResponseUtil;
11 import org.slf4j.Logger;
12 import org.slf4j.LoggerFactory;
13 import org.springframework.http.ResponseEntity;
14 import org.springframework.web.bind.annotation.*;
15
16 import javax.validation.Valid;
17 import java.net.URI;
18 import java.net.URISyntaxException;
19
20 import java.util.List;
21 import java.util.Optional;
22
23 /**
24 * REST controller for managing WatchedEpisode.
25 */
26 @RestController
27 @RequestMapping("/api")
28 public class WatchedEpisodeResource {
29
30     private final Logger log = LoggerFactory.getLogger(WatchedEpisodeResource.class);
31
32     private static final String ENTITY_NAME = "watchedEpisode";
33
34     private final WatchedEpisodeService watchedEpisodeService;
35
36     public WatchedEpisodeResource(WatchedEpisodeService watchedEpisodeService) {
37         this.watchedEpisodeService = watchedEpisodeService;
38     }
39
40     /**
41      * POST /watched-episodes : Create a new watchedEpisode.
42      *
43      * @param watchedEpisode the watchedEpisode to create
44      * @return the ResponseEntity with status 201 (Created) and with body the new
45      *         watchedEpisode, or with status 400 (Bad Request) if the watchedEpisode has
46      *         already an ID
47      * @throws URISyntaxException if the Location URI syntax is incorrect
48      */
49     @PostMapping("/watched-episodes")
50     @Timed
51     public ResponseEntity<WatchedEpisode> createWatchedEpisode(@Valid @RequestBody
52     WatchedEpisode watchedEpisode) throws URISyntaxException {
53         log.debug("REST request to save WatchedEpisode : {}", watchedEpisode);
54         if (watchedEpisode.getId() != null) {
55             throw new BadRequestAlertException("A new watchedEpisode cannot already
56             have an ID", ENTITY_NAME, "idexists");
57         }
58         WatchedEpisode result = watchedEpisodeService.save(watchedEpisode);
59         return ResponseEntity.created(new URI("/api/watched-episodes/" +
60             result.getId()))
61             .headers(HeaderUtil.createEntityCreationAlert(ENTITY_NAME,
62                 result.getId().toString()))
63             .body(result);
64     }
65
66     /**
67      * PUT /watched-episodes : Updates an existing watchedEpisode.
68      *
69      * @param watchedEpisode the watchedEpisode to update
70      * @return the ResponseEntity with status 200 (OK) and with body the updated
71      *         watchedEpisode,
72      *         or with status 400 (Bad Request) if the watchedEpisode is not valid,
73      *         or with status 500 (Internal Server Error) if the watchedEpisode couldn't be

```

```

    updated
  */
@PutMapping("/watched-episodes")
@Timed
public ResponseEntity<WatchedEpisode> updateWatchedEpisode(@Valid @RequestBody
WatchedEpisode watchedEpisode) {
    log.debug("REST request to update WatchedEpisode : {}", watchedEpisode);
    if (watchedEpisode.getId() == null) {
        throw new BadRequestAlertException("Invalid id", ENTITY_NAME, "idnull");
    }
    WatchedEpisode result = watchedEpisodeService.update(watchedEpisode);
    return ResponseEntity.ok()
        .headers(HeaderUtil.createEntityUpdateAlert(ENTITY_NAME,
        watchedEpisode.getId().toString()))
        .body(result);
}

/**
 * GET /watched-episodes : get all the watchedEpisodes.
 *
 * @return the ResponseEntity with status 200 (OK) and the list of
watchedEpisodes in body
 */
@GetMapping("/watched-episodes")
@Timed
public List<WatchedEpisode> getAllWatchedEpisodes() {
    log.debug("REST request to get all WatchedEpisodes");
    return watchedEpisodeService.findAll();
}

/**
 * GET /watched-episodes/:id : get the watchedEpisode by "id".
 *
 * @param id the id of the watchedEpisode to retrieve
 * @return the ResponseEntity with status 200 (OK) and with body the
watchedEpisode, or with status 404 (Not Found)
 */
@GetMapping("/watched-episodes/{id}")
@Timed
public ResponseEntity<WatchedEpisode> getWatchedEpisode(@PathVariable Long id) {
    log.debug("REST request to get WatchedEpisode : {}", id);
    Optional<WatchedEpisode> watchedEpisode = watchedEpisodeService.findById(id);
    return ResponseUtil.wrapOrNotFound(watchedEpisode);
}

/**
 * GET /watched-episodes/episode/:id : get the watchedEpisode by "id".
 *
 * @param id the id of the episode in the watchedEpisode to retrieve
 * @return the ResponseEntity with status 200 (OK) and with body the
watchedEpisode, or with status 404 (Not Found)
 */
@GetMapping("/watched-episodes/episode/{id}")
@Timed
public ResponseEntity<WatchedEpisode>
getWatchedEpisodeForEpisodeId(@PathVariable Long id) {
    log.debug("REST request to get WatchedEpisode by Episode: {}", id);
    Optional<WatchedEpisode> watchedEpisode =
    watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(id);
    return ResponseUtil.wrapOrNotFound(watchedEpisode);
}

/**
 * GET /watched-episodes/:id/average-rate : Get an average rate for episodes,
which id is episodeId
 *
 * @param id the id of the watchedEpisode to check
 * @return the ResponseEntity with status 200 (OK) and with body the
watchedEpisode, or with status 404 (Not Found)
 */
@GetMapping("/watched-episodes/{id}/average-rate")
@Timed
public Float getAverageRate(@PathVariable Long id) {

```

```
130     log.debug("REST request to get WatchedEpisode : {}", id);
131     return watchedEpisodeService.getAverageRate(id);
132 }
133
134 /**
135  * GET /watched-episodes/:id/rate-count : Get a count of how many users watched
136  episode, which id is episodeId
137  *
138  * @param id the id of the watchedEpisode to retrieve
139  * @return the ResponseEntity with status 200 (OK) and with body the
140  watchedEpisode, or with status 404 (Not Found)
141  */
142 @GetMapping("/watched-episodes/{id}/rate-count")
143 @Timed
144 public Integer getRateCount(@PathVariable Long id) {
145     log.debug("REST request to get WatchedEpisode : {}", id);
146     return watchedEpisodeService.getRateCount(id);
147 }
148
149 /**
150  * DELETE /watched-episodes/:id : delete the watchedEpisode by "id".
151  *
152  * @param id the id of the watchedEpisode to delete
153  * @return the ResponseEntity with status 200 (OK)
154  */
155 @DeleteMapping("/watched-episodes/{id}")
156 @Timed
157 public ResponseEntity<Void> deleteWatchedEpisode(@PathVariable Long id) {
158     log.debug("REST request to delete WatchedEpisode : {}", id);
159
160     watchedEpisodeService.deleteById(id);
161     return
162         ResponseEntity.ok().headers(HeaderUtil.createEntityDeletionAlert(ENTITY_NAME,
163             id.toString())).build();
164 }
165 }
```

```
1 //WatchedEpisodeService.java
2
3 package pl.marczynski.seriesapp.service;
4
5 import pl.marczynski.seriesapp.domain.WatchedEpisode;
6
7 import java.util.List;
8 import java.util.Optional;
9 /**
10  * Service interface for WatchedEpisode.
11  */
12 public interface WatchedEpisodeService {
13
14     /**
15      * Save WatchedEpisode
16      * @param watchedEpisode WatchedEpisode to save
17      * @return WatchedEpisode
18      */
19     WatchedEpisode save(WatchedEpisode watchedEpisode);
20
21     /**
22      * Find all watchedEpisode
23      * @return List of watchedEpisode
24      */
25     List<WatchedEpisode> findAll();
26
27     /**
28      * Find WatchedEpisode by id
29      * @param id the id of the WatchedEpisode to find
30      * @return Optional of WatchedEpisode
31      */
32     Optional<WatchedEpisode> findById(Long id);
33
34     /**
35      * Delete WatchedEpisode by id
36      * @param id the id of the WatchedEpisode to delete
37      */
38     void deleteById(Long id);
39
40     /**
41      * Update an existing WatchedEpisode
42      *
43      * @param watchedEpisode WatchedEpisode to update
44      * @return WatchedEpisode
45      */
46     WatchedEpisode update(WatchedEpisode watchedEpisode);
47
48     /**
49      * Get an average rate for episodes, which id is episodeId
50      * @param episodeId the id of the episode to check
51      * @return Float
52      */
53     Float getAverageRate(Long episodeId);
54
55     /**
56      * Get a count of how many users watched episode, which id is episodeId
57      * @param episodeId the id of the episode to check
58      * @return Integer
59      */
60     Integer getRateCount(Long episodeId);
61
62     /**
63      * Find if current user watched episode, which id is id
64      * @param id the id of the episode to check
65      * @return Optional of WatchedEpisode
66      */
67     Optional<WatchedEpisode> getWatchedEpisodeForCurrentUserByEpisodeId(Long id);
68 }
69
```

```
1 //WatchedEpisodeServiceImpl.java
2
3 package pl.marczynski.seriesapp.service.impl;
4
5 import org.springframework.stereotype.Service;
6 import pl.marczynski.seriesapp.domain.*;
7 import pl.marczynski.seriesapp.domain.builder.FollowedSeriesBuilder;
8 import pl.marczynski.seriesapp.domain.builder.WatchedEpisodeBuilder;
9 import pl.marczynski.seriesapp.repository.WatchedEpisodeRepository;
10 import pl.marczynski.seriesapp.security.AuthoritiesConstants;
11 import pl.marczynski.seriesapp.security.SecurityUtils;
12 import pl.marczynski.seriesapp.service.EpisodeService;
13 import pl.marczynski.seriesapp.service.FollowedSeriesService;
14 import pl.marczynski.seriesapp.service.UserService;
15 import pl.marczynski.seriesapp.service.WatchedEpisodeService;
16
17 import java.util.List;
18 import java.util.Optional;
19
20 /**
21 * Service class for managing WatchedEpisode.
22 */
23 @Service
24 public class WatchedEpisodeServiceImpl implements WatchedEpisodeService {
25     private WatchedEpisodeRepository watchedEpisodeRepository;
26
27     private FollowedSeriesService followedSeriesService;
28     private UserService userService;
29     private EpisodeService episodeService;
30
31     public WatchedEpisodeServiceImpl(WatchedEpisodeRepository
32         watchedEpisodeRepository, UserService userService, FollowedSeriesService
33         followedSeriesService, EpisodeService episodeService) {
34         this.watchedEpisodeRepository = watchedEpisodeRepository;
35         this.userService = userService;
36         this.followedSeriesService = followedSeriesService;
37         this.episodeService = episodeService;
38     }
39
40     /**
41      * Save WatchedEpisode
42      *
43      * @param watchedEpisode WatchedEpisode to save
44      * @return WatchedEpisode
45      */
46     @Override
47     public WatchedEpisode save(WatchedEpisode watchedEpisode) {
48         if (watchedEpisode == null) return null;
49
50         WatchedEpisode result = null;
51         Optional<User> user = userService.findCurrentUser();
52         Optional<WatchedEpisode> watchedEpisodeOptional =
53             watchedEpisodeRepository.findByIdAndUserIsCurrentUser(watchedEpisode.get
54             tEpisode().getId());
55         watchedEpisodeOptional.ifPresent(watchedEpisode1 ->
56             watchedEpisode.setId(watchedEpisode1.getId()));
57
58         if (user.isPresent()) {
59
60             watchedEpisode.setUser(user.get());
61             result = watchedEpisodeRepository.save(watchedEpisode);
62             Series series = watchedEpisode.getEpisode().getSeason().getSeries();
63             FollowedSeries followedSeries = new
64                 FollowedSeriesBuilder().series(series).user(user.get()).build();
65             followedSeriesService.save(followedSeries);
66         }
67         return result;
68     }
69
70     /**
71      * Find all watchedEpisode
72      *
73      * @return List of watchedEpisode
74     }
```

```
68  */
69 @Override
70 public List<WatchedEpisode> findAll() {
71     if (SecurityUtils.isCurrentUserInRole(AuthoritiesConstants.ADMIN)) {
72         return watchedEpisodeRepository.findAll();
73     } else {
74         return watchedEpisodeRepository.findByUserIsCurrentUser();
75     }
76 }
77
78 /**
79 * Find WatchedEpisode by id
80 *
81 * @param id the id of the WatchedEpisode to find
82 * @return Optional of WatchedEpisode
83 */
84 @Override
85 public Optional<WatchedEpisode> findById(Long id) {
86     return watchedEpisodeRepository.findById(id);
87 }
88
89 /**
90 * Delete WatchedEpisode by id
91 *
92 * @param id the id of the WatchedEpisode to delete
93 */
94 @Override
95 public void deleteById(Long id) {
96     watchedEpisodeRepository.deleteById(id);
97 }
98
99 /**
100 * Update an existing WatchedEpisode
101 *
102 * @param watchedEpisode WatchedEpisode to update
103 * @return WatchedEpisode
104 */
105 @Override
106 public WatchedEpisode update(WatchedEpisode watchedEpisode) {
107     return save(watchedEpisode);
108 }
109
110 /**
111 * Get an average rate for episodes, which id is episodeId
112 *
113 * @param episodeId the id of the episode to check
114 * @return Float
115 */
116 @Override
117 public Float getAverageRate(Long episodeId) {
118     return watchedEpisodeRepository.getAverageRateByEpisodeId(episodeId);
119 }
120
121 /**
122 * Get a count of how many users watched episode, which id is episodeId
123 *
124 * @param episodeId the id of the episode to check
125 * @return Integer
126 */
127 @Override
128 public Integer getRateCount(Long episodeId) {
129     return watchedEpisodeRepository.getRateCountByEpisodeId(episodeId);
130 }
131
132 /**
133 * Find or create watchedEpisode for current user by episode id
134 *
135 * @param id the id of the episode to check
136 * @return Optional of WatchedEpisode
137 */
138 @Override
139 public Optional<WatchedEpisode> getWatchedEpisodeForCurrentUserByEpisodeId(Long id) {
```

```
140     if(id == null) return Optional.empty();
141
142     Optional<User> user = userService.findCurrentUser();
143     Optional<WatchedEpisode> result = Optional.empty();
144
145     if (user.isPresent()) {
146         result = watchedEpisodeRepository.findByEpisodeIdAndUserIsCurrentUser(id);
147
148         if (!result.isPresent()) {
149             Optional<Episode> episode = episodeService.findById(id);
150
151             if (episode.isPresent()) {
152                 result = Optional.of(new
153                 WatchedEpisodeBuilder().user(user.get()).episode(episode.get()).bu
154                 ild());
155             }
156         }
157     }
158
159 }
```

```

1 //WatchedEpisodeRepository.java
2
3 package pl.marczynski.seriesapp.repository;
4
5 import org.springframework.data.repository.query.Param;
6 import pl.marczynski.seriesapp.config.Constants;
7 import pl.marczynski.seriesapp.domain.WatchedEpisode;
8 import org.springframework.data.jpa.repository.*;
9 import org.springframework.stereotype.Repository;
10
11 import javax.validation.constraints.NotNull;
12 import javax.validation.constraints.Pattern;
13 import javax.validation.constraints.Size;
14 import java.util.List;
15 import java.util.Optional;
16
17 /**
18 * Spring Data repository for the WatchedEpisode entity.
19 */
20 @SuppressWarnings("unused")
21 @Repository
22 public interface WatchedEpisodeRepository extends JpaRepository<WatchedEpisode,
23 Long> {
24
25     /**
26      * Find list of WatchedEpisode for current user
27      * @return List of WatchedEpisode
28      */
29     @Query("select watched_episode from WatchedEpisode watched_episode where
30     watched_episode.user.login = ?#{principal.username}")
31     List<WatchedEpisode> findByUserIsCurrentUser();
32
33     /**
34      * Find if current user watched episode, which id is episodeId
35      * @param episodeId the id of the Episode to check
36      * @return Optional of WatchedEpisode
37      */
38     @Query("select watched_episode from WatchedEpisode watched_episode where
39     watched_episode.user.login = ?#{principal.username} and
40     watched_episode.episode.id = :episodeId")
41     Optional<WatchedEpisode> findByEpisodeIdAndUserIsCurrentUser(@Param("episodeId")
42     Long episodeId);
43
44     /**
45      * Get an average rate for episode, which id is episodeId
46      * @param episodeId the id of the episode to check
47      * @return Float
48      */
49     @Query("select avg(case watched_episode.rate " +
50             "when 'BAD' then 1 " +
51             "when 'MEDIocre' then 2 " +
52             "when 'AVERAGE' then 3 " +
53             "when 'GOOD' then 4 " +
54             "when 'AWESOME' then 5 " +
55             "else 0 END) from WatchedEpisode as watched_episode where
56             watched_episode.episode.id = :episodeId and watched_episode.rate is not null")
57     Float getAverageRateByEpisodeId(@Param("episodeId") Long episodeId);
58
59     /**
60      * Get a count of how many users watched episode, which id is episodeId
61      * @param episodeId the id of the episode to check
62      * @return Integer
63      */
64     @Query("select count(watched_episode) from WatchedEpisode as watched_episode
65             where watched_episode.episode.id = :episodeId and watched_episode.rate is not
66             null")
67     Integer getRateCountByEpisodeId(@Param("episodeId") Long episodeId);
68 }

```

```
1 //WatchedEpisode.java
2
3 package pl.marczynski.seriesapp.domain;
4
5 import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
6
7 import javax.persistence.*;
8 import javax.validation.constraints.*;
9
10 import java.io.Serializable;
11 import java.util.Objects;
12
13 import pl.marczynski.seriesapp.domain.enumeration.Rate;
14
15 /**
16 * A WatchedEpisode.
17 */
18 @Entity
19 @Table(name = "watched_episode")
20 public class WatchedEpisode implements Serializable {
21
22     private static final long serialVersionUID = 1L;
23
24     @Id
25     @GeneratedValue(strategy = GenerationType.IDENTITY)
26     private Long id;
27
28     @Enumerated(EnumType.STRING)
29     @Column(name = "rate")
30     private Rate rate;
31
32     @Size(max = 500)
33     @Column(name = "jhi_comment", length = 500)
34     private String comment;
35
36     @ManyToOne(optional = false)
37     @NotNull
38     @JsonIgnoreProperties("")
39     private User user;
40
41     @ManyToOne(optional = false)
42     @NotNull
43     @JsonIgnoreProperties("")
44     private Episode episode;
45
46     public WatchedEpisode() {
47 }
48
49     public WatchedEpisode(Rate rate, String comment, User user, Episode episode) {
50         this.rate = rate;
51         this.comment = comment;
52         this.user = user;
53         this.episode = episode;
54     }
55
56     // jhipster-needle-entity-add-field - JHipster will add fields here, do not remove
57     public Long getId() {
58         return id;
59     }
60
61     public void setId(Long id) {
62         this.id = id;
63     }
64
65     public Rate getRate() {
66         return rate;
67     }
68
69     public void setRate(Rate rate) {
70         this.rate = rate;
71     }
72
73     public String getComment() {
```

```

74     return comment;
75 }
76
77     public void setComment(String comment) {
78         this.comment = comment;
79     }
80
81     public User getUser() {
82         return user;
83     }
84
85     public void setUser(User user) {
86         this.user = user;
87     }
88
89     public Episode getEpisode() {
90         return episode;
91     }
92
93     public void setEpisode(Episode episode) {
94         this.episode = episode;
95     }
96 // jhipster-needle-entity-add-getters-setters - JHipster will add getters and
97 // setters here, do not remove
98
99     @Override
100    public boolean equals(Object o) {
101        if (this == o) {
102            return true;
103        }
104        if (o == null || getClass() != o.getClass()) {
105            return false;
106        }
107        WatchedEpisode watchedEpisode = (WatchedEpisode) o;
108        if (watchedEpisode.getId() == null || getId() == null) {
109            return false;
110        }
111        return Objects.equals(getId(), watchedEpisode.getId());
112    }
113
114    @Override
115    public int hashCode() {
116        return Objects.hashCode(getId());
117    }
118
119    @Override
120    public String toString() {
121        return "WatchedEpisode{" +
122            "id=" + getId() +
123            ", rate='" + getRate() + "'" +
124            ", comment='" + getComment() + "'" +
125            "}";
126    }
127

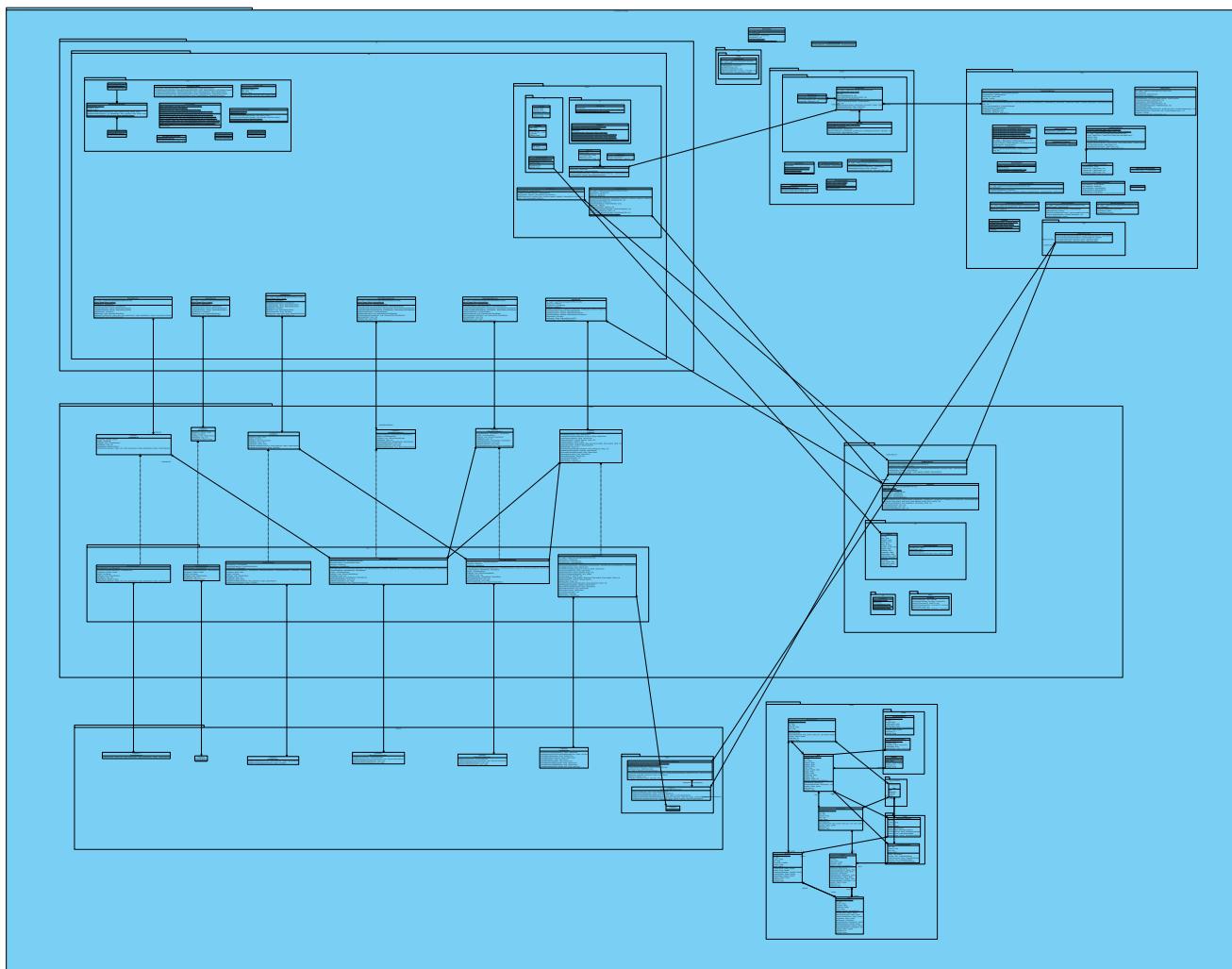
```

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pl.marczynski.seriesapp pl.marczynski.seriesapp.aop.logging pl.marczynski.seriesapp.config pl.marczynski.seriesapp.config pl.marczynski.seriesapp.config pl.marczynski.seriesapp.domain pl.marczynski.seriesapp.domain pl.marczynski.seriesapp.domain pl.marczynski.seriesapp.domain pl.marczynski.seriesapp.domain pl.marczynski.seriesapp.repository pl.marczynski.seriesapp.repositories pl.marczynski.seriesapp.repositories pl.marczynski.seriesapp.security pl.marczynski.seriesapp.security	<p><b>Packages</b></p> <table border="1"> <thead> <tr> <th>Package</th><th>Description</th></tr> </thead> <tbody> <tr> <td><a href="#">pl.marczynski.seriesapp</a></td><td>Package that stores all files for series app.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.aop.logging</a></td><td>Aspect for logging execution of service and repository Spring components.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.config</a></td><td>Spring Framework configuration files.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.config.audit</a></td><td>Audit specific code.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.config.timezone</a></td><td>Unit tests for the UTC Hibernate configuration.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.domain</a></td><td>JPA domain objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.domain.builder</a></td><td>Builder pattern for JPA domain objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.domain.enumeration</a></td><td>Enumeration for domain objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.domain.jhipster</a></td><td>Automatically generated domain objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.repository</a></td><td>Spring Data JPA repositories.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.repository.jhipster</a></td><td>Automatically generated Spring Data JPA repositories.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.repository.timezone</a></td><td>Spring Data JPA repository for the DateTime.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.security</a></td><td>Spring Security configuration.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.security.jwt</a></td><td>Spring Security configuration for JSON Web Token.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service</a></td><td>Service layer beans.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service.impl</a></td><td>Services implementation.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service.jhipster</a></td><td>Automatically generated services.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service.jhipster.dto</a></td><td>Data Transfer Objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service.jhipster.mapper</a></td><td>MapStruct mappers for mapping domain objects and Data Transfer Objects.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.service.jhipster.util</a></td><td>Automatically generated utility classes.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.web.rest</a></td><td>Automatically generated Spring MVC REST controllers.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.web.rest.errors</a></td><td>Specific errors used with Zalando's "problem-spring-web" library.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.web.rest.jhipster</a></td><td>Spring MVC REST controllers.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.web.rest.jhipster.util</a></td><td>Automatically generated utility classes for REST controllers.</td></tr> <tr> <td><a href="#">pl.marczynski.seriesapp.web.rest.jhipster.vm</a></td><td>View Models used by Spring MVC REST controllers.</td></tr> </tbody> </table>	Package	Description	<a href="#">pl.marczynski.seriesapp</a>	Package that stores all files for series app.	<a href="#">pl.marczynski.seriesapp.aop.logging</a>	Aspect for logging 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<a href="#">pl.marczynski.seriesapp.repository.timezone</a>	Spring Data JPA repository for the DateTime.																																																				
<a href="#">pl.marczynski.seriesapp.security</a>	Spring Security configuration.																																																				
<a href="#">pl.marczynski.seriesapp.security.jwt</a>	Spring Security configuration for JSON Web Token.																																																				
<a href="#">pl.marczynski.seriesapp.service</a>	Service layer beans.																																																				
<a href="#">pl.marczynski.seriesapp.service.impl</a>	Services implementation.																																																				
<a href="#">pl.marczynski.seriesapp.service.jhipster</a>	Automatically generated services.																																																				
<a href="#">pl.marczynski.seriesapp.service.jhipster.dto</a>	Data Transfer Objects.																																																				
<a href="#">pl.marczynski.seriesapp.service.jhipster.mapper</a>	MapStruct mappers for mapping domain objects and Data Transfer Objects.																																																				
<a href="#">pl.marczynski.seriesapp.service.jhipster.util</a>	Automatically generated utility classes.																																																				
<a href="#">pl.marczynski.seriesapp.web.rest</a>	Automatically generated Spring MVC REST controllers.																																																				
<a href="#">pl.marczynski.seriesapp.web.rest.errors</a>	Specific errors used with Zalando's "problem-spring-web" library.																																																				
<a href="#">pl.marczynski.seriesapp.web.rest.jhipster</a>	Spring MVC REST controllers.																																																				
<a href="#">pl.marczynski.seriesapp.web.rest.jhipster.util</a>	Automatically generated utility classes for REST controllers.																																																				
<a href="#">pl.marczynski.seriesapp.web.rest.jhipster.vm</a>	View Models used by Spring MVC REST controllers.																																																				

(10)

Realizacja PU

## 1. Diagram klas - realizacja



### 1.1. AbstractAuditingEntity

Base abstract class for entities which will hold definitions for created, last modified by and created, last modified by date.

### 1.2. AccountResource

REST controller for managing the current user's account.

### 1.3. aop

### 1.4. ApplicationProperties

Properties specific to Seriesapp.

<p>

Properties are configured in the application.yml file.

See {@link io.github.jhipster.config.JHipsterProperties} for a good example.

### 1.5. ApplicationWebXml

This is a helper Java class that provides an alternative to creating a web.xml.

This will be invoked only when the application is deployed to a Servlet container like Tomcat, JBoss etc.

## ■ 1.6. AsyncConfiguration

### — 1.7. audit

## ■ 1.8. AuditEventConverter

### ■ 1.9. AuditEventService

Service for managing audit events.

<p>

This is the default implementation to support SpringBoot Actuator AuditEventRepository

### ■ 1.10. AuditResource

REST controller for getting the audit events.

### ■ 1.11. AuthoritiesConstants

Constants for Spring Security authorities.

### ■ 1.12. Authority

An authority (a security role) used by Spring Security.

### ■ 1.13. AuthorityRepository

Spring Data JPA repository for the Authority entity.

### ■ 1.14. BadRequestAlertException

### — 1.15. builder

## ■ 1.16. CloudDatabaseConfiguration

### — 1.17. config

### ■ 1.18. Constants

Application constants.

### ■ 1.19. CustomAuditEventRepository

An implementation of Spring Boot's AuditEventRepository.

### ■ 1.20. CustomParameterizedException

Custom, parameterized exception, which can be translated on the client side.

For example:

```
<pre>
throw new CustomParameterizedException("myCustomError", "hello",
                                         "world");
</pre>
```

Can be translated with:

```
<pre>
"error.myCustomError" : "The server says {{param0}} to {{param1}}"
</pre>
```

### ■ 1.21. DatabaseConfiguration

## **1.22. DateTimeFormatConfiguration**

Configure the converters to use the ISO format for dates by default.

## **1.23. DefaultProfileUtil**

Utility class to load a Spring profile to be used as default when there is no `<code>spring.profiles.active</code>` set in the environment or as command line argument.

If the value is not available in `<code>application.yml</code>` then `<code>dev</code>` profile will be used as default.

## **1.24. domain**

### **1.25. DomainUserDetailsService**

Authenticate a user from the database.

## **1.26. dto**

### **1.27. EmailAlreadyUsedException**

### **1.28. EmailNotFoundException**

## **1.29. enumeration**

### **1.30. Episode**

A Episode.

### **1.31. EpisodeRepository**

Spring Data repository for the Episode entity.

### **1.32. EpisodeResource**

REST controller for managing Episode.

### **1.33. EpisodeService**

Service interface for episodes.

### **1.34. EpisodeServiceImpl**

Service class for managing episodes.

## **1.35. ErrorConstants**

## **1.36. errors**

### **1.37. ExceptionTranslator**

Controller advice to translate the server side exceptions to client-friendly json structures. The error response follows RFC7807 - Problem Details for HTTP APIs (<https://tools.ietf.org/html/rfc7807>)

### **1.38. FieldErrorVM**

### **1.39. FollowedSeries**

A FollowedSeries.

## **1.40. FollowedSeriesBuilder**

## **1.41. FollowedSeriesRepository**

Spring Data repository for the FollowedSeries entity.

## **1.42. FollowedSeriesResource**

REST controller for managing FollowedSeries.

## **1.43. FollowedSeriesService**

Service interface for FollowedSeries.

## **1.44. FollowedSeriesServiceImpl**

## **1.45. HeaderUtil**

Utility class for HTTP headers creation.

## **1.46. impl**

## **1.47. InternalServerErrorException**

Simple exception with a message, that returns an Internal Server Error code.

## **1.48. InvalidPasswordException**

## **1.49. JacksonConfiguration**

## **1.50. jhipster**

### **1.51. jhipster**

#### **1.52. jhipster**

#### **1.53. jhipster**

#### **1.54. jwt**

## **1.55. JWTConfigurer**

## **1.56. JWTFilter**

Filters incoming requests and installs a Spring Security principal if a header corresponding to a valid user is found.

## **1.57. JWTTOKEN**

Object to return as body in JWT Authentication.

## **1.58. KeyAndPasswordVM**

View Model object for storing the user's key and password.

## **1.59. LiquibaseConfiguration**

## **1.60. LocaleConfiguration**

## **1.61. LogbackLoggerContextListener**

Logback configuration is achieved by configuration file and API.

When configuration file change is detected, the configuration is reset.

This listener ensures that the programmatic configuration is also re-applied after reset.

## **1.62. LoggerVM**

View Model object for storing a Logback logger.

## **1.63. logging**

## **1.64. LoggingAspect**

Aspect for logging execution of service and repository Spring components.

By default, it only runs with the "dev" profile.

## **1.65. LoggingAspectConfiguration**

## **1.66. LoggingConfiguration**

## **1.67. LoginAlreadyUsedException**

## **1.68. LoginVM**

View Model object for storing a user's credentials.

## **1.69. LogsResource**

Controller for view and managing Log Level at runtime.

## **1.70. MailService**

Service for sending emails.

<p>

We use the @Async annotation to send emails asynchronously.

## **1.71. ManagedUserVM**

View Model extending the UserDTO, which is meant to be used in the user management UI.

## **1.72. mapper**

## **1.73. MetricsConfiguration**

## **1.74. PaginationUtil**

Utility class for handling pagination.

<p>

Pagination uses the same principles as the <a href="https://developer.github.com/v3/#pagination">GitHub API</a>,  
and follow <a href="http://tools.ietf.org/html/rfc5988">RFC 5988 (Link header)</a>.

## **1.75. PasswordChangeDTO**

A DTO representing a password change required data - current and new password.

## **1.76. PersistenceAuditEventRepository**

Spring Data JPA repository for the PersistentAuditEvent entity.

## **1.77. PersistentAuditEvent**

Persist AuditEvent managed by the Spring Boot actuator.

@see org.springframework.boot.actuate.audit.AuditEvent

## **1.78. pl.marczynski.seriesapp**

### **1.79. RandomUtil**

Utility class for generating random Strings.

### **1.80. Rate**

The Rate enumeration.

## **1.81. repository**

## **1.82. rest**

### **1.83. Season**

A Season.

### **1.84. SeasonRepository**

Spring Data repository for the Season entity.

### **1.85. SeasonResource**

REST controller for managing Season.

### **1.86. SeasonService**

Service interface for Season.

## **1.87. SeasonServiceImpl**

## **1.88. security**

### **1.89. SecurityConfiguration**

### **1.90. SecurityUtils**

Utility class for Spring Security.

### **1.91. Series**

A Series.

### **1.92. SeriesappApp**

### **1.93. SeriesRepository**

Spring Data repository for the Series entity.

### **1.94. SeriesResource**

REST controller for managing Series.

### **1.95. SeriesService**

Service interface for Series.

## 1.96. SeriesServiceImpl

### 1.97. service

## 1.98. SpringSecurityAuditorAware

Implementation of AuditorAware based on Spring Security.

## 1.99. TokenProvider

## 1.100. User

A user.

## 1.101. UserDTO

A DTO representing a user, with his authorities.

## 1.102. UserJWTController

Controller to authenticate users.

## 1.103. UserMapper

Mapper for the entity User and its DTO called UserDTO.

Normal mappers are generated using MapStruct, this one is hand-coded as MapStruct support is still in beta, and requires a manual step with an IDE.

## 1.104. UserNotActivatedException

This exception is thrown in case of a not activated user trying to authenticate.

## 1.105. UserRepository

Spring Data JPA repository for the User entity.

## 1.106. UserResource

REST controller for managing users.

<p>

This class accesses the User entity, and needs to fetch its collection of authorities.

<p>

For a normal use-case, it would be better to have an eager relationship between User and Authority,

and send everything to the client side: there would be no View Model and DTO, a lot less code, and an outer-join

which would be good for performance.

<p>

We use a View Model and a DTO for 3 reasons:

<ul>

<li>We want to keep a lazy association between the user and the authorities, because people

will

quite often do relationships with the user, and we don't want them to get the authorities all the time for nothing (for performance reasons). This is the #1 goal: we should not impact our users'

application because of this use-case.</li>

<li> Not having an outer join causes n+1 requests to the database. This is not a real issue as we have by default a second-level cache. This means on the first HTTP call we do the n+1 requests,

but then all authorities come from the cache, so in fact it's much better than doing an outer join  
(which will get lots of data from the database, for each HTTP call).</li>  
<li> As this manages users, for security reasons, we'd rather have a DTO layer.</li>  
</ul>

<p> Another option would be to have a specific JPA entity graph to handle this case.

### **1.107. UserService**

Service interface for User.

### **1.108. UserServiceImpl**

Service class for managing users.

### **1.109. util**

#### **1.110. util**

#### **1.111. vm**

### **1.112. WatchedEpisode**

A WatchedEpisode.

### **1.113. WatchedEpisodeBuilder**

### **1.114. WatchedEpisodeRepository**

Spring Data repository for the WatchedEpisode entity.

### **1.115. WatchedEpisodeResource**

REST controller for managing WatchedEpisode.

### **1.116. WatchedEpisodeService**

Service interface for WatchedEpisode.

### **1.117. WatchedEpisodeServiceImpl**

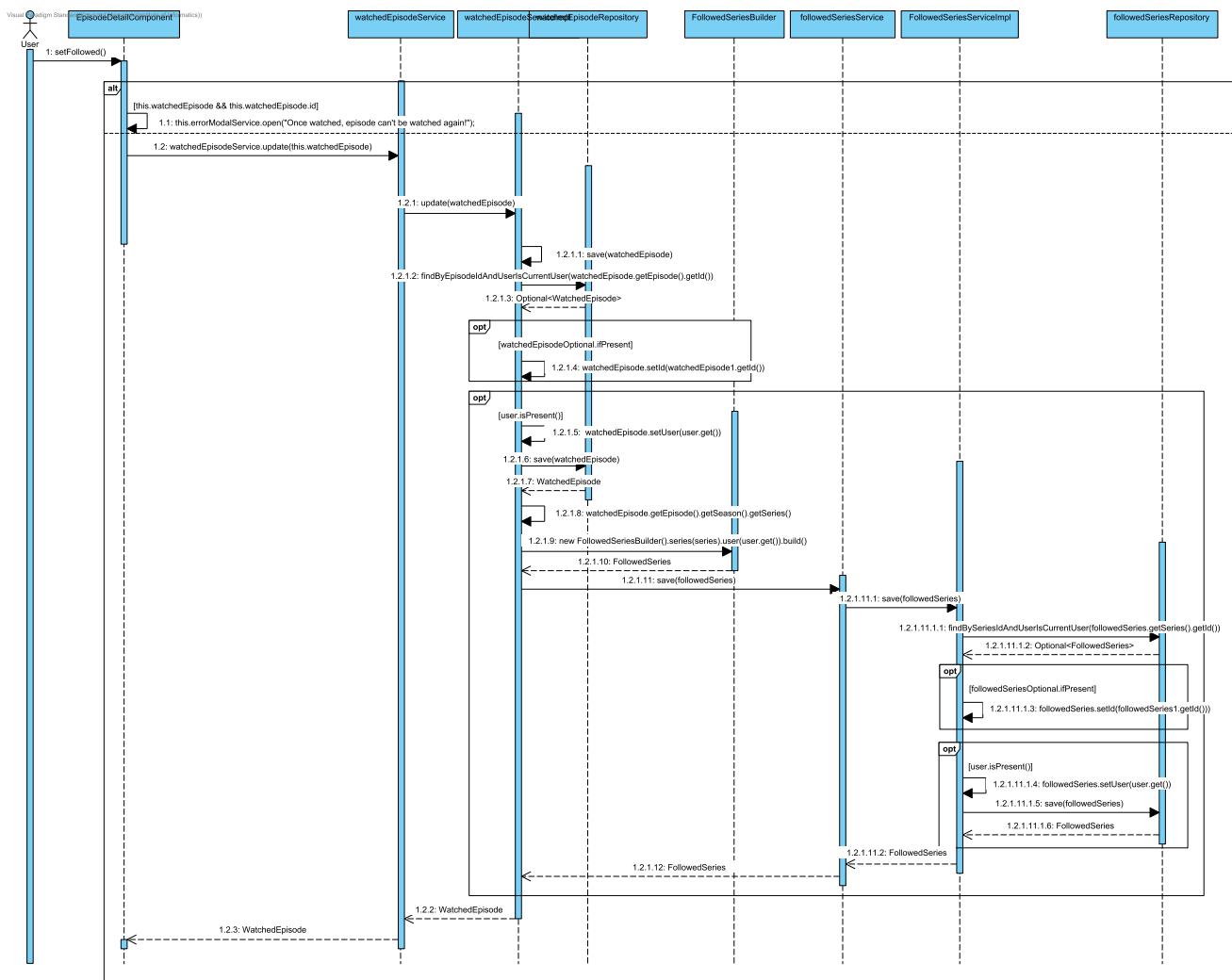
Service class for managing WatchedEpisode.

### **1.118. web**

### **1.119. WebConfigurer**

Configuration of web application with Servlet 3.0 APIs.

# 1. Realizacja - oznaczenie odcinka jako obejrzanego



## 1.1. CombinedFragment

## 1.2. CombinedFragment2

## 1.3. CombinedFragment3

## 1.4. CombinedFragment4

## 1.5. CombinedFragment5

## 1.6. EpisodeDetailComponent

## 1.7. FollowedSeriesBuilder

## 1.8. followedSeriesRepository

## 1.9. followedSeriesService

## 1.10. FollowedSeriesServiceImpl

### 1.11. User

### 1.12. watchedEpisodeRepository

### 1.13. watchedEpisodeService

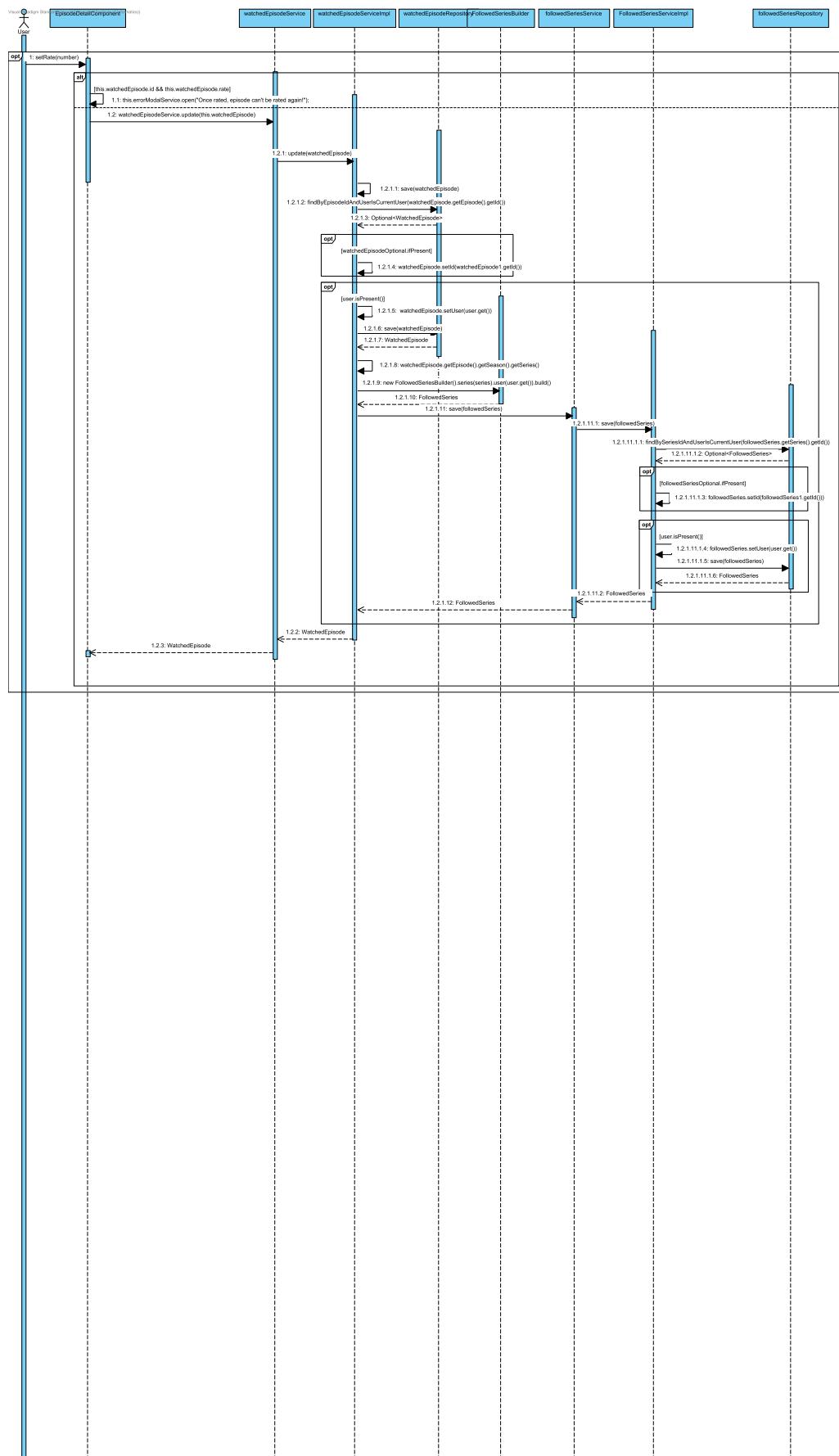
### 1.14. watchedEpisodeServiceImpl

## 1.15. Messages

From	No.	Name	Type	Action Type	To	Async.
User	1	setFollowed()	→	Unspecified	EpisodeDetailComponent	
EpisodeDetailComponent	1.1	this.errorModalService.open("Once watched, episode can't be watched again!");	→	Unspecified	EpisodeDetailComponent	
EpisodeDetailComponent	1.2	watchedEpisodeService.update(this.watchedEpisode)	→	Unspecified	watchedEpisodeService	
watchedEpisodeService	1.2.1	update(watchedEpisode)	→	Unspecified	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.1	save(watchedEpisode)	→	Unspecified	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.2	findByEpisodeIdAndUserIsCurrentUser(watchedEpisode.getEpisode().getId())	→	Unspecified	watchedEpisodeRepository	
watchedEpisodeRepository	1.2.1.3	Optional<WatchedEpisode>	→	Reply	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.4	watchedEpisode.setId(watchedEpisode1.getId())	→	Unspecified	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.5	watchedEpisode.setUser(user.get())	→	Unspecified	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.6	save(watchedEpisode)	→	Unspecified	watchedEpisodeRepository	
watchedEpisodeRepository	1.2.1.8	watchedEpisode.getEpisode().getSeason().getSeries()	→	Unspecified	watchedEpisodeServiceImpl	
watchedEpisodeRepository	1.2.1.7	WatchedEpisode	→	Reply	watchedEpisodeServiceImpl	
watchedEpisodeServiceImpl	1.2.1.9	new FollowedSeriesBuilder().series(series).user(user.get()).build()	→	Unspecified	FollowedSeriesBuilder	
FollowedSeriesBuilder	1.2.1.10	FollowedSeries	→	Reply	watchedEpisodeServiceImpl	

From	No.	Name	Type	Action Type	To	Async.
watchedEpiso deServiceImpl	1.2.1.11	save(followedSeries)	→	Unspecified	followedSeri esService	
followedSeri esService	1.2.1.11.1	save(followedSeries)	→	Unspecified	FollowedSeri esServiceImpl	
FollowedSeri esServiceImpl	1.2.1.11.1. 1	findBySeriesIdAndUserIsCurr entUser(followedSeries.get Series().getId())	→	Unspecified	followedSeri esRepository	
followedSeri esRepository	1.2.1.11.1. 2	Optional<FollowedSeries>	→	Reply	FollowedSeri esServiceImpl	
FollowedSeri esServiceImpl	1.2.1.11.1. 3	followedSeries.setId(follow edSeries1.getId())	↔	Unspecified	FollowedSeri esServiceImpl	
FollowedSeri esServiceImpl	1.2.1.11.1. 4	followedSeries.setUser(user. get())	↔	Unspecified	FollowedSeri esServiceImpl	
FollowedSeri esServiceImpl	1.2.1.11.1. 5	save(followedSeries)	→	Unspecified	followedSeri esRepository	
followedSeri esRepository	1.2.1.11.1. 6	FollowedSeries	→	Reply	FollowedSeri esServiceImpl	
FollowedSeri esServiceImpl	1.2.1.11.2	FollowedSeries	→	Reply	followedSeri esService	
followedSeri esService	1.2.1.12	FollowedSeries	→	Reply	watchedEpiso deServiceImpl	
watchedEpiso deServiceImpl	1.2.2	WatchedEpisode	→	Reply	watchedEpiso deService	
watchedEpiso deService	1.2.3	WatchedEpisode	→	Reply	EpisodeDetai lComponent	

# 1. Realizacja - wyrazenie opinii o odcinku (ocena)



## 1.1. CombinedFragment

### 1.2. CombinedFragment2

### 1.3. CombinedFragment3

### 1.4. CombinedFragment4

### 1.5. CombinedFragment5

### 1.6. CombinedFragment6

### 1.7. EpisodeDetailComponent

### 1.8. FollowedSeriesBuilder

### 1.9. followedSeriesRepository

### 1.10. followedSeriesService

### 1.11. FollowedSeriesServiceImpl

### 1.12. User

### 1.13. watchedEpisodeRepository

### 1.14. watchedEpisodeService

### 1.15. watchedEpisodeServiceImpl

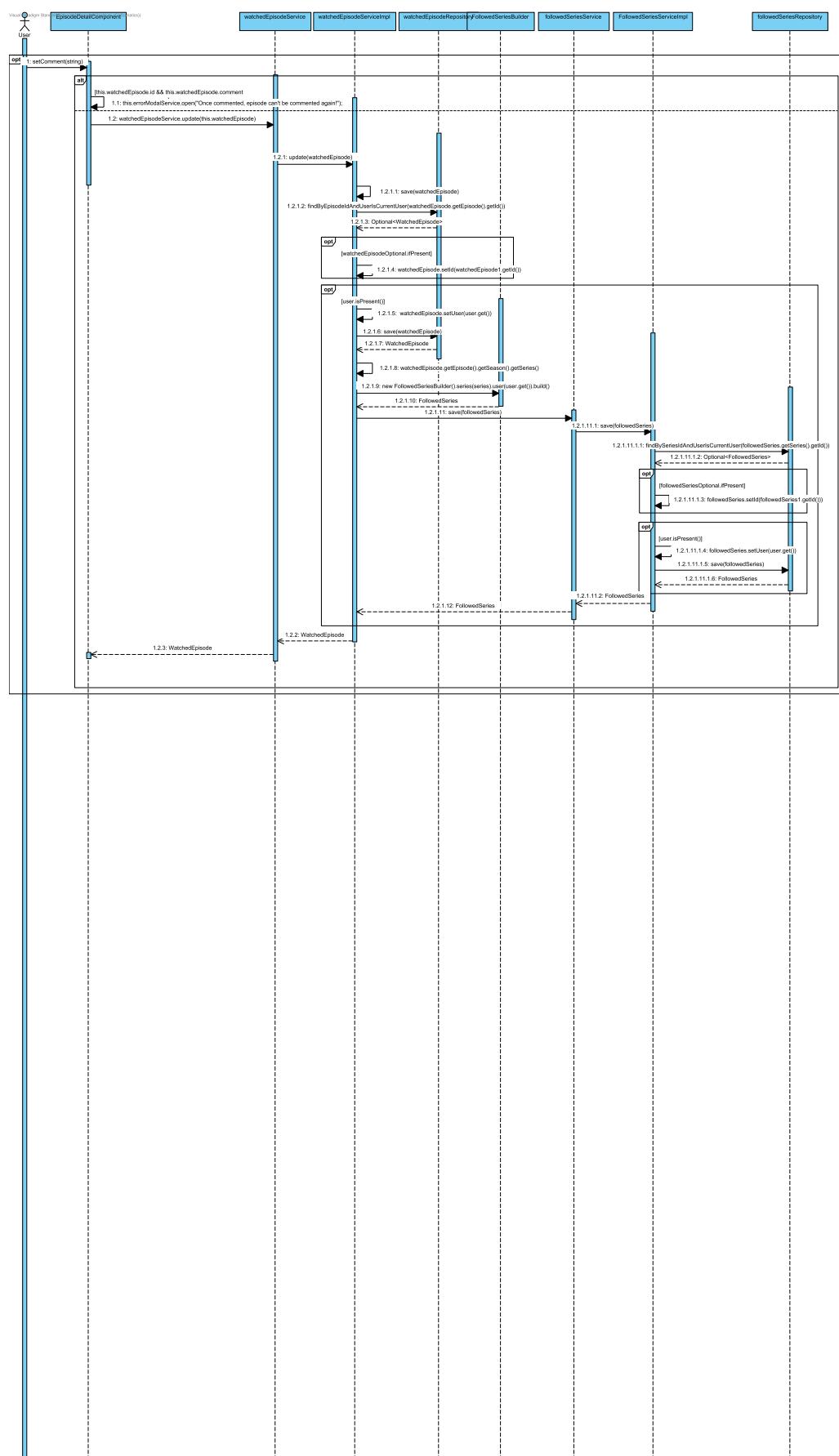
## 1.16. Messages

From	No.	Name	Type	Action Type	To	Async.
 User	1	setRate(number)	→	Unspecified	 EpisodeDetailComponent	
 EpisodeDetailComponent	1.1	this.errorModalService.open("Once rated, episode can't be rated again!");	↔	Unspecified	 EpisodeDetailComponent	
 EpisodeDetailComponent	1.2	watchedEpisodeService.update(this.watchedEpisode)	→	Unspecified	 watchedEpisodeService	
 watchedEpisodeService	1.2.1	update(watchedEpisode)	→	Unspecified	 watchedEpisodeServiceImpl	
 watchedEpisodeServiceImpl	1.2.1.1	save(watchedEpisode)	↔	Unspecified	 watchedEpisodeServiceImpl	
 watchedEpisodeServiceImpl	1.2.1.2	findByEpisodeIdAndUserIsCurrentUser(watchedEpisode.getId())	→	Unspecified	 watchedEpisodeRepository	

From	No.	Name	Type	Action Type	To	Async.
└─ watchedEpisodeRepository	1.2.1.3	Optional<WatchedEpisode>	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.4	watchedEpisode.setId(watchedEpisode1.getId())	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.5	watchedEpisode.setUser(user.get())	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.6	save(watchedEpisode)	→	Unspecified	└─ watchedEpisodeRepository	
└─ watchedEpisodeRepository	1.2.1.7	WatchedEpisode	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.8	watchedEpisode.getEpisode().getSeason().getSeries()	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.9	new FollowedSeriesBuilder().series(series).user(user.get()).build()	→	Unspecified	└─ FollowedSeriesBuilder	
└─ FollowedSeriesBuilder	1.2.1.10	FollowedSeries	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.11	save(followedSeries)	→	Unspecified	└─ followedSeriesService	
└─ followedSeriesService	1.2.1.11.1	save(followedSeries)	→	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.1	findBySeriesIdAndUserIsCurrentUser(followedSeries.getSeries().getId())	→	Unspecified	└─ followedSeriesRepository	
└─ followedSeriesRepository	1.2.1.11.1.2	Optional<FollowedSeries>	→	Reply	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.3	followedSeries.setId(followedSeries1.getId())	↔	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.4	followedSeries.setUser(user.get())	↔	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.5	save(followedSeries)	→	Unspecified	└─ followedSeriesRepository	
└─ followedSeriesRepository	1.2.1.11.1.6	FollowedSeries	→	Reply	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.2	FollowedSeries	→	Reply	└─ followedSeriesService	
└─ followedSeriesService	1.2.1.12	FollowedSeries	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.2	WatchedEpisode	→	Reply	└─ watchedEpisodeService	

From	No.	Name	Type	Action Type	To	Async.
 watchedEpisodeService	1.2.3	WatchedEpisode	→	Reply	 EpisodeDetailComponent	

## 1. Realizacja - wyrażenie opinii o odcinku (komentarz)



## 1.1. CombinedFragment

### 1.2. CombinedFragment2

### 1.3. CombinedFragment3

### 1.4. CombinedFragment4

### 1.5. CombinedFragment5

### 1.6. CombinedFragment6

### 1.7. EpisodeDetailComponent

### 1.8. FollowedSeriesBuilder

### 1.9. followedSeriesRepository

### 1.10. followedSeriesService

### 1.11. FollowedSeriesServiceImpl

### 1.12. User

### 1.13. watchedEpisodeRepository

### 1.14. watchedEpisodeService

### 1.15. watchedEpisodeServiceImpl

## 1.16. Messages

From	No.	Name	Type	Action Type	To	Async.
 User	1	setComment(string)	→	Unspecified	 EpisodeDetailComponent	
 EpisodeDetailComponent	1.1	this.errorModalService.open("Once commented, episode can't be commented again!");	↔	Unspecified	 EpisodeDetailComponent	
 EpisodeDetailComponent	1.2	watchedEpisodeService.update(this.watchedEpisode)	→	Unspecified	 watchedEpisodeService	
 watchedEpisodeService	1.2.1	update(watchedEpisode)	→	Unspecified	 watchedEpisodeServiceImpl	
 watchedEpisodeServiceImpl	1.2.1.1	save(watchedEpisode)	↔	Unspecified	 watchedEpisodeServiceImpl	
 watchedEpisodeServiceImpl	1.2.1.2	findByEpisodeIdAndUserIsCurrentUser(watchedEpisode.getId())	→	Unspecified	 watchedEpisodeRepository	

From	No.	Name	Type	Action Type	To	Async.
└─ watchedEpisodeRepository	1.2.1.3	Optional<WatchedEpisode>	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.4	watchedEpisode.setId(watchedEpisode1.getId())	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.5	watchedEpisode.setUser(user.get())	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.6	save(watchedEpisode)	→	Unspecified	└─ watchedEpisodeRepository	
└─ watchedEpisodeRepository	1.2.1.7	WatchedEpisode	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.8	watchedEpisode.getEpisode().getSeason().getSeries()	↔	Unspecified	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.9	new FollowedSeriesBuilder().series(series).user(user.get()).build()	→	Unspecified	└─ FollowedSeriesBuilder	
└─ FollowedSeriesBuilder	1.2.1.10	FollowedSeries	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.1.11	save(followedSeries)	→	Unspecified	└─ followedSeriesService	
└─ followedSeriesService	1.2.1.11.1	save(followedSeries)	→	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.1	findBySeriesIdAndUserIsCurrentUser(followedSeries.getSeries().getId())	→	Unspecified	└─ followedSeriesRepository	
└─ followedSeriesRepository	1.2.1.11.1.2	Optional<FollowedSeries>	→	Reply	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.3	followedSeries.setId(followedSeries1.getId())	↔	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.4	followedSeries.setUser(user.get())	↔	Unspecified	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.1.5	save(followedSeries)	→	Unspecified	└─ followedSeriesRepository	
└─ followedSeriesRepository	1.2.1.11.1.6	FollowedSeries	→	Reply	└─ FollowedSeriesServiceImpl	
└─ FollowedSeriesServiceImpl	1.2.1.11.2	FollowedSeries	→	Reply	└─ followedSeriesService	
└─ followedSeriesService	1.2.1.12	FollowedSeries	→	Reply	└─ watchedEpisodeServiceImpl	
└─ watchedEpisodeServiceImpl	1.2.2	WatchedEpisode	→	Reply	└─ watchedEpisodeService	

From	No.	Name	Type	Action Type	To	Async.
 watchedEpisodeService	1.2.3	WatchedEpisode	→	Reply	 EpisodeDetailComponent	

(11)

Testy jednostkowe

```
1 //WatchedEpisodeServiceImplTest.java
2
3 package pl.marczynski.seriesapp.service.impl;
4
5 import org.junit.Before;
6 import org.junit.Test;
7 import org.junit.runner.RunWith;
8 import org.mockito.ArgumentCaptor;
9 import org.mockito.InjectMocks;
10 import org.mockito.Mock;
11 import org.mockito.junit.MockitoJUnitRunner;
12 import org.mockito.stubbing.Answer;
13 import pl.marczynski.seriesapp.domain.*;
14 import pl.marczynski.seriesapp.domain.builder.FollowedSeriesBuilder;
15 import pl.marczynski.seriesapp.domain.builder.WatchedEpisodeBuilder;
16 import pl.marczynski.seriesapp.repository.WatchedEpisodeRepository;
17 import pl.marczynski.seriesapp.service.EpisodeService;
18 import pl.marczynski.seriesapp.service.FollowedSeriesService;
19 import pl.marczynski.seriesapp.service.UserService;
20
21 import java.util.Optional;
22
23 import static org.hamcrest.Matchers.is;
24 import static org.junit.Assert.*;
25 import static org.mockito.Mockito.*;
26
27 @RunWith(MockitoJUnitRunner.class)
28 public class WatchedEpisodeServiceImplTest {
29
30     @Mock
31     private WatchedEpisodeRepository watchedEpisodeRepository;
32
33     @Mock
34     private FollowedSeriesService followedSeriesService;
35
36     @Mock
37     private UserService userService;
38
39     @Mock
40     private EpisodeService episodeService;
41
42     @InjectMocks
43     private WatchedEpisodeServiceImpl watchedEpisodeService;
44
45     private static final long DEFAULT_ID = 1L;
46
47     @Before
48     public void setup() {
49         ArgumentCaptor<WatchedEpisode> watchedEpisode =
50             ArgumentCaptor.forClass(WatchedEpisode.class);
51         when(watchedEpisodeRepository.save(watchedEpisode.capture()))
52             .thenAnswer(
53             invocation -> {
54                 WatchedEpisode captured = watchedEpisode.getValue();
55                 if (captured == null) return null;
56
57                 if (captured.getId() == null) {
58                     captured.setId(DEFAULT_ID);
59                 }
60                 return captured;
61             });
62     }
63
64     // ***** Tests for save method *****
65
66     @Test
67     public void whenLoggedUserNotPresentThenSaveResultIsNull() {
68         //given
69         Episode episode = new Episode();
70         episode.setId(DEFAULT_ID);
71         WatchedEpisode watchedEpisode = new
72             WatchedEpisodeBuilder().episode(episode).build();
```

```

71     when(userService.findCurrentUser()).thenReturn(Optional.empty());
72
73     //when
74     WatchedEpisode result = watchedEpisodeService.save(watchedEpisode);
75
76     //then
77     assertNull(result);
78 }
79
80 @Test
81 public void whenLoggedUserIsPresentThenSaveWatchedEpisodeInRepository() {
82     //given
83     User user = new User();
84     user.setId(DEFAULT_ID);
85     WatchedEpisode watchedEpisode = createWatchedEpisode();
86     ArgumentCaptor<WatchedEpisode> watchedEpisodeCaptor =
87     ArgumentCaptor.forClass(WatchedEpisode.class);
88
89     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
90
91     //when
92     watchedEpisodeService.save(watchedEpisode);
93
94     //then
95     verify(watchedEpisodeRepository,
96            times(1)).save(watchedEpisodeCaptor.capture());
97     WatchedEpisode result = watchedEpisodeCaptor.getValue();
98     assertThat(result.getUser(), is(user));
99     assertThat(result.getEpisode(), is(watchedEpisode.getEpisode()));
100    assertThat(result.getComment(), is(watchedEpisode.getComment()));
101    assertThat(result.getRate(), is(watchedEpisode.getRate()));
102 }
103
104 @Test
105 public void whenSavingWatchedEpisodeThenSetSeriesAsFollowed() {
106     //given
107     User user = new User();
108     user.setId(DEFAULT_ID);
109     WatchedEpisode watchedEpisode = createWatchedEpisode();
110
111     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
112     ArgumentCaptor<FollowedSeries> capturedFollowed =
113     ArgumentCaptor.forClass(FollowedSeries.class);
114     FollowedSeries expected = new
115     FollowedSeriesBuilder().series(watchedEpisode.getEpisode().getSeason().getSeries())
116     .user(user).build();
117
118     //when
119     watchedEpisodeService.save(watchedEpisode);
120
121     //then
122     verify(followedSeriesService, times(1)).save(capturedFollowed.capture());
123     FollowedSeries result = capturedFollowed.getValue();
124     assertThat(result.getUser(), is(expected.getUser()));
125     assertThat(result.getSeries(), is(expected.getSeries()));
126 }
127
128 @Test
129 public void whenSavingWatchedEpisodeAndIdIsPresentThenIdShouldRemain() {
130     //given
131     User user = new User();
132     user.setId(DEFAULT_ID);
133     WatchedEpisode watchedEpisode = createWatchedEpisode();
134
135     watchedEpisode.setId(DEFAULT_ID);
136     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
137
138     //when
139     WatchedEpisode result = watchedEpisodeService.save(watchedEpisode);
140
141     //then
142     assertThat(result.getId(), is(DEFAULT_ID));
143 }
```

```

139
140     @Test
141     public void whenSavingWatchedEpisodeAndIdIsNotPresentThenIdShouldBeAdded() {
142         //given
143         User user = new User();
144         user.setId(DEFAULT_ID);
145         WatchedEpisode watchedEpisode = createWatchedEpisode();
146         watchedEpisode.setId(null);
147         when(userService.findCurrentUser()).thenReturn(Optional.of(user));
148
149         //when
150         WatchedEpisode result = watchedEpisodeService.save(watchedEpisode);
151
152         //then
153         assertNotNull(result.getId());
154     }
155
156     @Test
157     public void
158     whenSavingWatchedEpisodeThenCurrentUserShouldBeAddedToWatchedEpisode() {
159         //given
160         User user = new User();
161         user.setId(DEFAULT_ID);
162         WatchedEpisode watchedEpisode = createWatchedEpisode();
163         watchedEpisode.setUser(null);
164         when(userService.findCurrentUser()).thenReturn(Optional.of(user));
165
166         //when
167         WatchedEpisode result = watchedEpisodeService.save(watchedEpisode);
168
169         //then
170         assertThat(result.getUser(), is(user));
171     }
172
173     @Test
174     public void
175     whenSavingWatchedEpisodeAndWatchedEpisodeIsNullThenShouldReturnNull() {
176         //given
177
178         //when
179         WatchedEpisode result = watchedEpisodeService.save(null);
180
181         //then
182         verify(episodeService, times(0)).findById(any());
183         assertNull(result);
184     }
185
186     // **** Tests for
187     // getWatchedEpisodeForCurrentUserByEpisodeId method
188
189     @Test
190     public void
191     whenUserIsNotLoggedThenGetWatchedEpisodeForCurrentUserByEpisodeIdShouldReturnEmpty
192     Optional() {
193         //given
194         when(userService.findCurrentUser()).thenReturn(Optional.empty());
195
196         //when
197         Optional<WatchedEpisode> result =
198             watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(DEFAULT_ID);
199
200         //then
201         verify(userService, times(1)).findCurrentUser();
202         assertThat(result.isPresent(), is(false));
203     }
204
205     @Test
206     public void whenWatchedEpisodeFoundForCurrentUserThenReturnIt() {
207         //given
208         User user = new User();
209         user.setId(DEFAULT_ID);

```

```

205     WatchedEpisode watchedEpisode = createWatchedEpisode();
206     watchedEpisode.setUser(user);
207     watchedEpisode.setId(DEFAULT_ID);
208
209     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
210
211     when(watchedEpisodeRepository.findByIdAndUserIsCurrentUser(watchedEpisode.getId()))
212     .thenReturn(Optional.of(watchedEpisode));
213
214     //when
215     Optional<WatchedEpisode> result =
216     watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(DEFAULT_ID);
217
218     //then
219     verify(watchedEpisodeRepository,
220     times(1)).findByIdAndUserIsCurrentUser(watchedEpisode.getId());
221     assertThat(result.isPresent(), is(true));
222     assertThat(result.get(), is(watchedEpisode));
223 }
224
225 @Test
226 public void
227 whenWatchedEpisodeNotFoundForCurrentUserAndEpisodeNotFoundThenReturnEmptyOptional()
228 {
229     //given
230     User user = new User();
231     user.setId(DEFAULT_ID);
232
233     WatchedEpisode watchedEpisode = createWatchedEpisode();
234     watchedEpisode.setUser(user);
235     watchedEpisode.setId(DEFAULT_ID);
236
237     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
238
239     when(watchedEpisodeRepository.findByIdAndUserIsCurrentUser(any()))
240     .thenReturn(Optional.empty());
241     when(episodeService.findById(any()))
242     .thenReturn(Optional.empty());
243
244     //when
245     Optional<WatchedEpisode> result =
246     watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(DEFAULT_ID);
247
248     //then
249     verify(episodeService, times(1)).findById(DEFAULT_ID);
250     assertThat(result.isPresent(), is(false));
251 }
252
253 @Test
254 public void
255 whenWatchedEpisodeNotFoundForCurrentUserAndEpisodeWasFoundThenReturnNewWatchedEpis
256 ode()
257 {
258     //given
259     User user = new User();
260     user.setId(DEFAULT_ID);
261
262     Episode episode = createWatchedEpisode().getEpisode();
263
264     when(userService.findCurrentUser()).thenReturn(Optional.of(user));
265
266     when(watchedEpisodeRepository.findByIdAndUserIsCurrentUser(any()))
267     .thenReturn(Optional.empty());
268     when(episodeService.findById(any()))
269     .thenReturn(Optional.of(episode));
270
271     //when
272     Optional<WatchedEpisode> result =
273     watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(DEFAULT_ID);
274
275     //then
276     verify(episodeService, times(1)).findById(DEFAULT_ID);
277     assertThat(result.isPresent(), is(true));
278     WatchedEpisode watchedEpisodeResult = result.get();
279
280     assertThat(watchedEpisodeResult.getEpisode(), is(episode));

```

```
264     assertThat(watchedEpisodeResult.getUser(), is(user));
265     assertNull(watchedEpisodeResult.getId());
266     assertNull(watchedEpisodeResult.getComment());
267     assertNull(watchedEpisodeResult.getRate());
268 }
269
270 @Test
271 public void whenPassedNullParameterThenReturnEmptyOptional() {
272     //given
273
274     //when
275     Optional<WatchedEpisode> result =
276         watchedEpisodeService.getWatchedEpisodeForCurrentUserByEpisodeId(null);
277
278     //then
279     verify(episodeService, times(0)).findById(any());
280     assertThat(result.isPresent(), is(false));
281 }
282
283 // ****
284
285 private WatchedEpisode createWatchedEpisode() {
286     Series series = new Series();
287     series.setId(DEFAULT_ID);
288     series.setName("Sherlock");
289     series.setReleaseYear(2014);
290     series.setDescription("no shit Sherlock");
291     Season season = new Season();
292     series.addSeason(season);
293     season.setSeries(series);
294     season.setId(DEFAULT_ID);
295     season.setNumber(1);
296     season.setReleaseYear(2014);
297     season.setDescription("descrip");
298     Episode episode = new Episode();
299     season.addEpisode(episode);
300     episode.setSeason(season);
301     episode.setId(DEFAULT_ID);
302     episode.setNumber(1);
303     episode.setDuration(20);
304     episode.setTitle("Odc 1");
305     return new WatchedEpisodeBuilder().episode(episode).build();
306 }
307 }
```

(12)

Przypadki testowe dla  
PU.

Automatyzacja testów  
funkcjonalnych.

Badanie jakości  
projektu