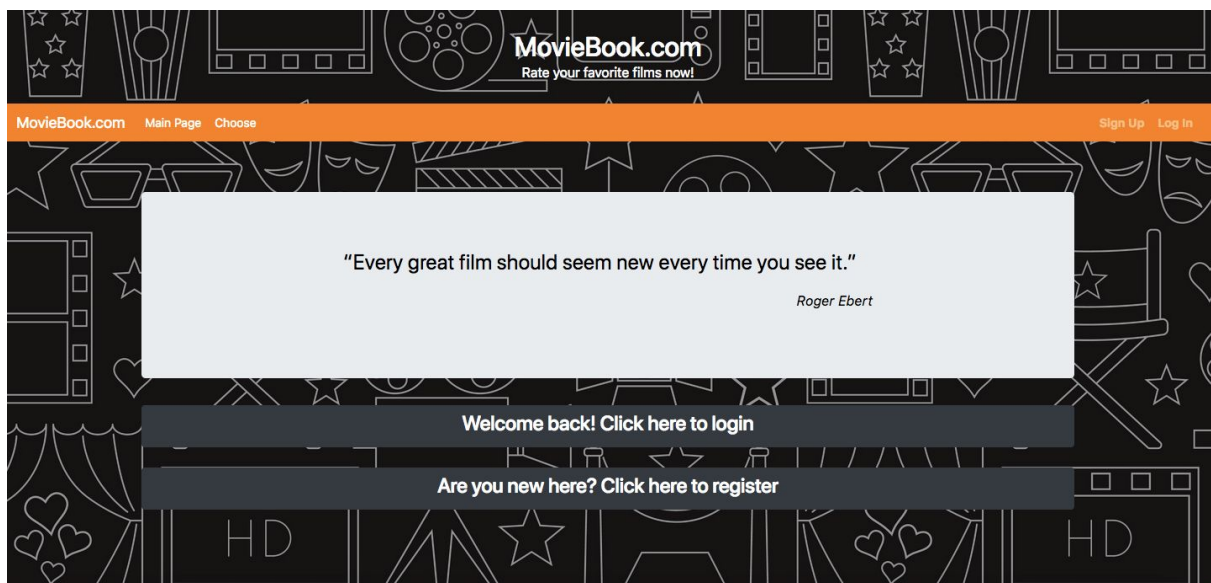


Page functionalities

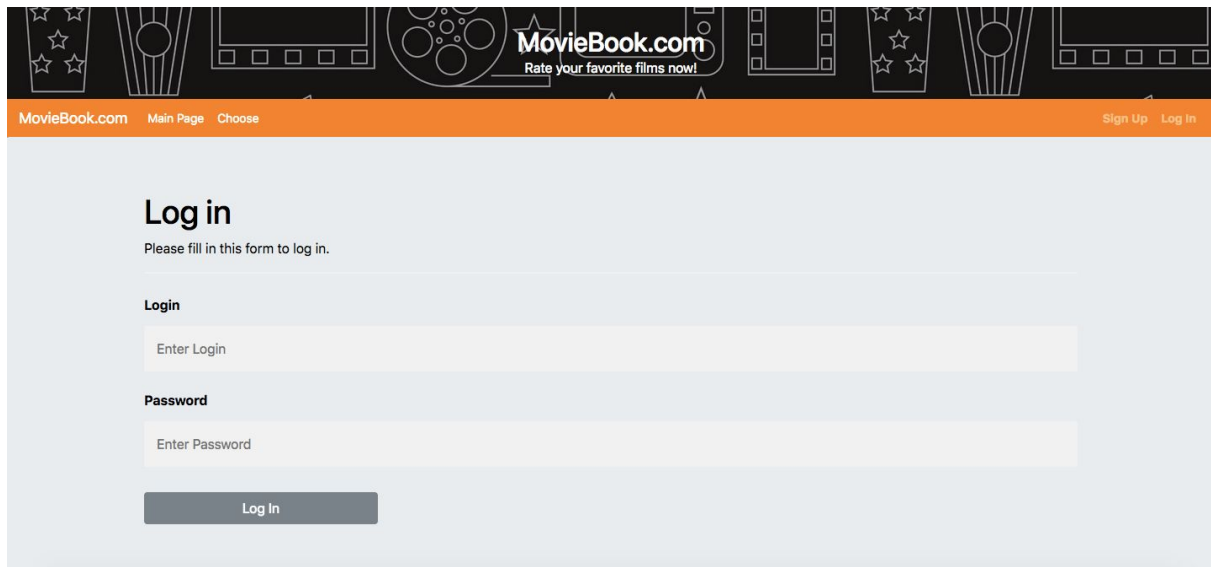
1. **Menu:** On top of each page is a menu navigation panel. From it the user can access the main page (/), choose movie panel (/choose) and his own profile (/profile). Admin is able to access the main page (/), choose movie panel (/choose), his own profile (/profile) and admin panel (/admin). Moreover, on the right - depending on whether the user is logged in - non clickable active username and Log Out - or not - Log In and Sign Up.



2. **Registration:** New user can register by giving information in /register, that after clicking Sign Up are added to the database. If login name already exists in the database, user has to provide another one which will be unique. System provides information about unsuccessful register. If the registration was successful, system redirects user to /welcome, through which one can go to page /login, to log in.

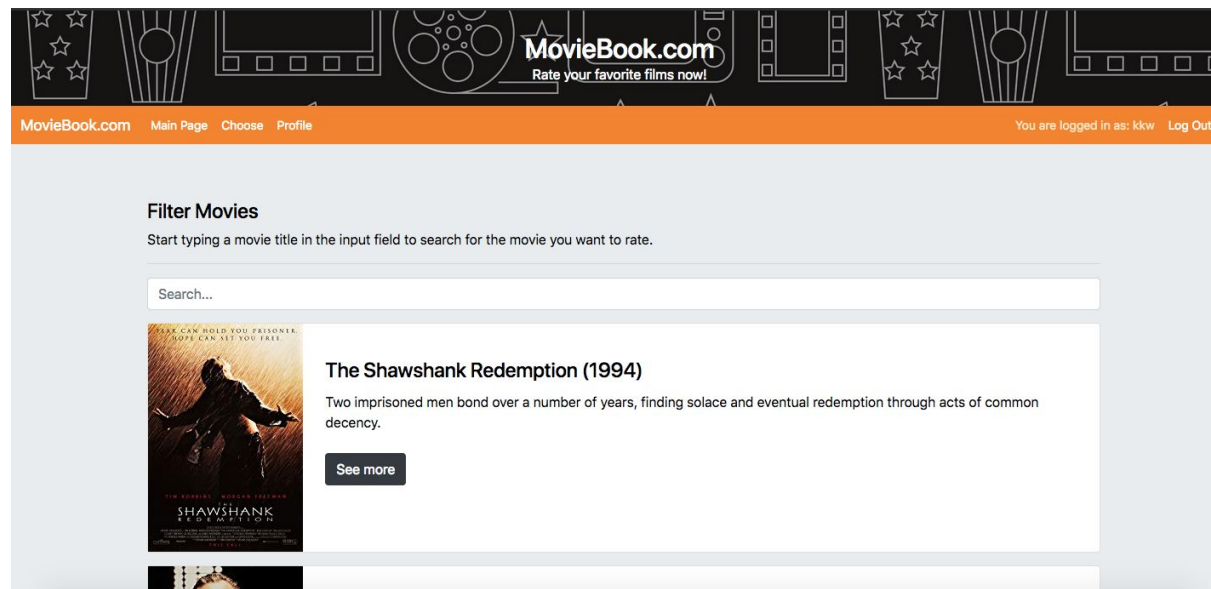
The screenshot shows the 'Sign Up' page of MovieBook.com. The page has a light blue background. At the top, there is a navigation bar with links for 'Main Page' and 'Choose', and user options 'Sign Up' and 'Log In'. The main content area is titled 'Sign Up' and includes the instruction 'Please fill in this form to create an account.' Below this, there are four form fields: 'Name' (with placeholder 'Enter Your Name'), 'Surname' (with placeholder 'Enter Your Surname'), 'Gender' (with radio buttons for 'Female' and 'Male'), and 'Birthday'.

3. Logging In: User can login through `/login`. After authorisation system redirects user to `/choose` and in cookies remembers logged in username. When logged in user attempts to login again, error message appears.



The screenshot shows the login page of MovieBook.com. The header features the site logo and navigation links. The main content area is titled 'Log in' and contains a form with fields for 'Login' and 'Password', followed by a 'Log In' button. The footer includes links for 'Sign Up' and 'Log In'.

4. Signing out: User can sign out through Sign Out button which is located on navbar. System redirects website to main page and clears username cookies.
5. Choosing film: On page `/choose` user can filter films by titles in the searchbox. User can click movie title. System redirects user to page of chosen film `/film/<film-name>`.



The screenshot shows the search results page of MovieBook.com. The header features the site logo and navigation links. The main content area is titled 'Filter Movies' and contains a search box. Below the search box, a movie card for 'The Shawshank Redemption (1994)' is displayed, showing the movie poster, title, and a brief description. A 'See more' button is visible next to the movie card.

6. Film review: User can review film by choosing number of stars and typing review. User can change number of stars and type review until he hits submit. User can submit only one review per film. System validates, if the user already submitted a review and has one, system shows an information about error.

two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.


Review this film:

★ ★ ★ ★ ★

Write film review here

Add review

All reviews:

 **kkw**
Rating: 4 stars
 Noice
 Fri Jan 4 00:57:08 2019


7. Showing information about film: User on page `/film/<film-name>` can view info about chosen film which is average rating, time, genre, director, writer and stars. To view its own opinion after submission one needs to refresh page so opinions get selected from database once again.

MovieBook.com
Rate your favorite films now!

MovieBook.com Main Page Choose Profile You are logged in as: kkw Log Out

The Shawshank Redemption (1994)
 Skazani na Shawshank

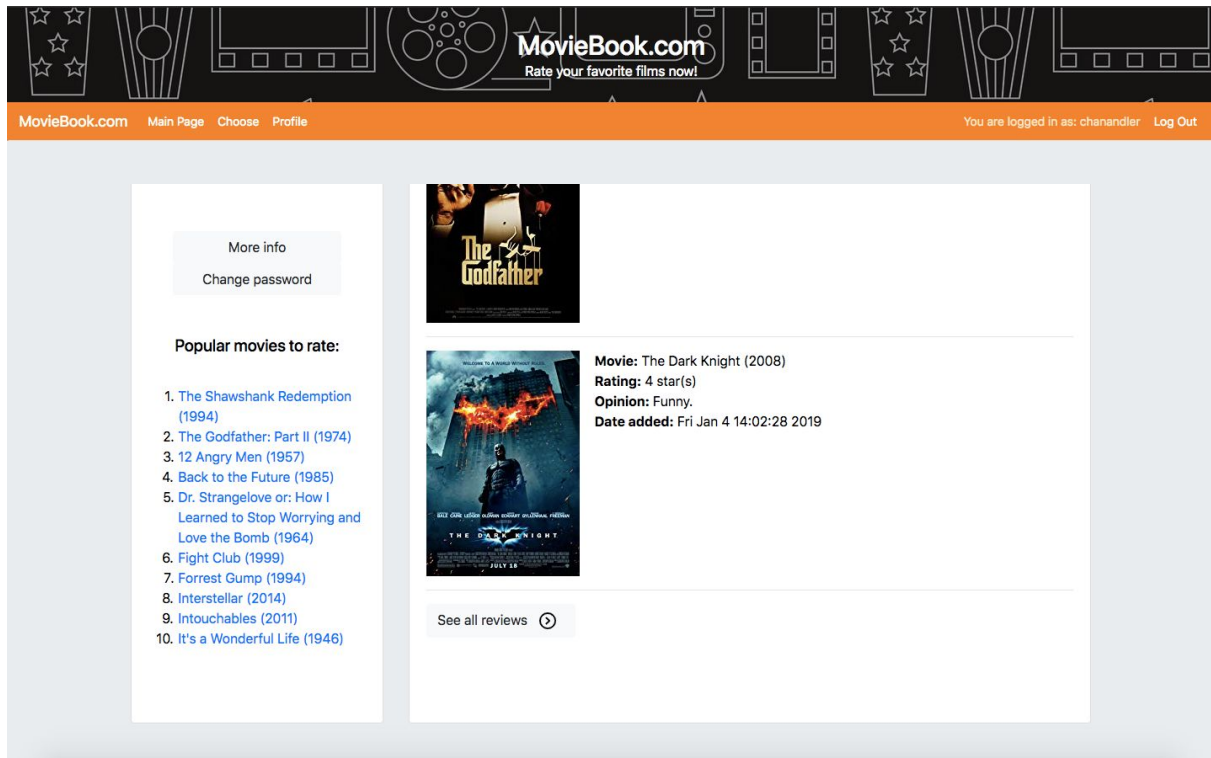
[Back to browsing films](#)



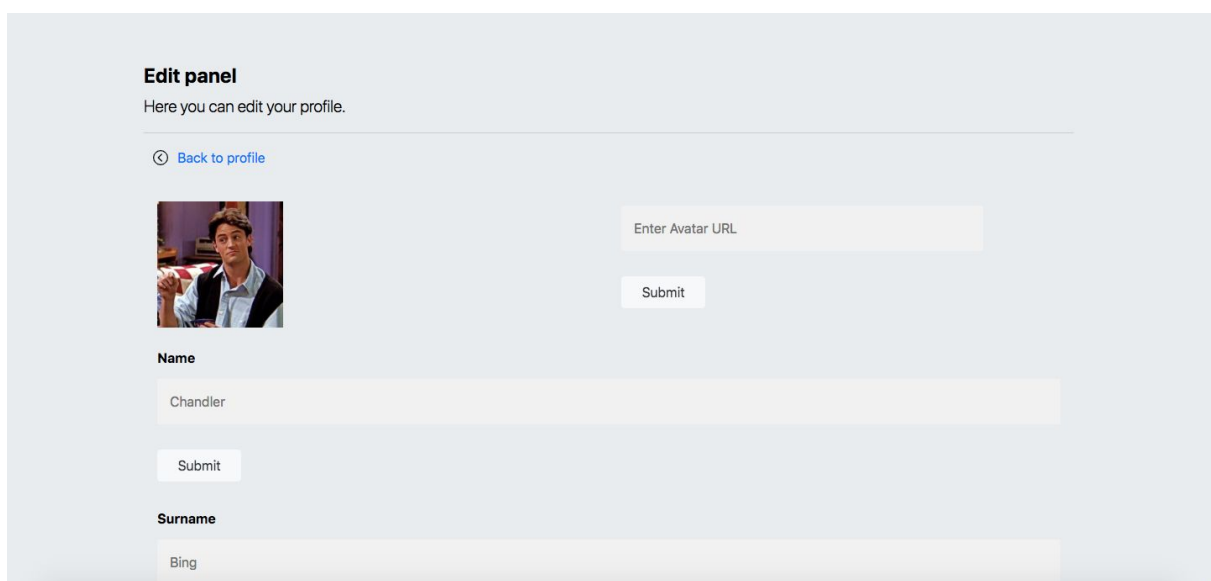
★	Average Rating: 3.6666666666666665/5.0
⌚	Time: 2h 22min
🎭	Genre: Drama
🎬	Director: Frank Darabont

8. User's profile: User on page `/profile` can see his avatar, description about him he set, movies he rated recently (with rating, opinion and date; 3 movies displayed) and also movies he could rate in order depending on the popularity of the movie (popularity = how many times it was reviewed on the MovieBook.com). Moreover, there is an option to see all movies the user rated which redirects the user to the page

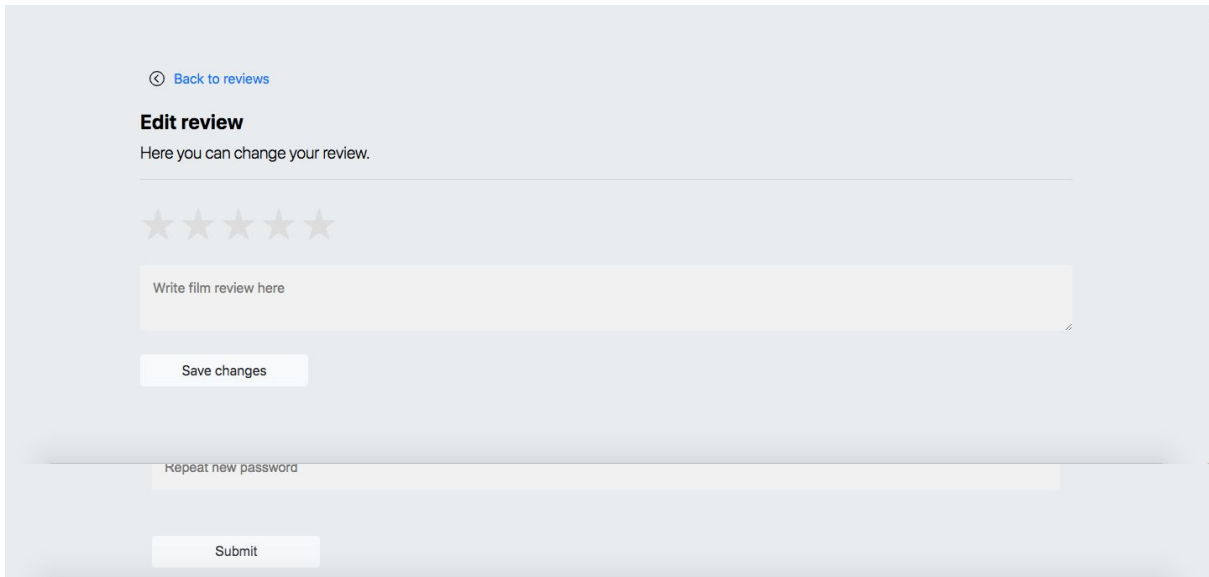
`/profile/reviews`. If the user reviewed all movies, the system displays the message:
“Congratulations! You rated all movies!”.



9. Editing profile: On page `/profile` user clicks button More Info. System redirects page to `/profile/edit` where user is able to edit personal information that were submitted through the registration form.

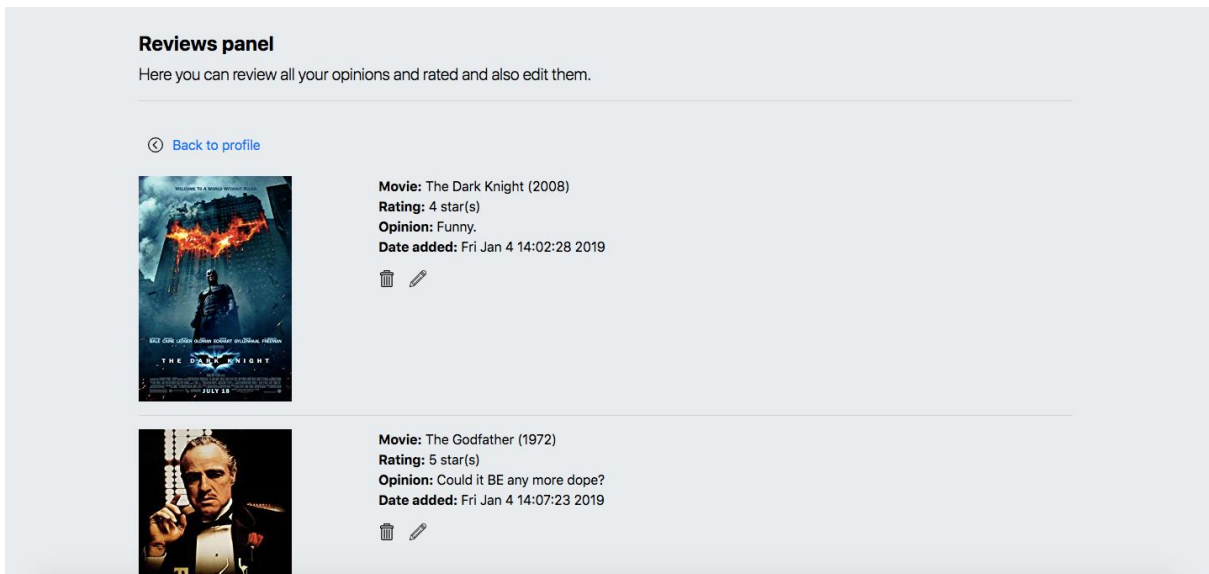


10. Changing password: On page `/profile` user clicks button Change Password. System redirects page to `/password-change`. To change the password, user has to write old password and after that write a new one twice. System validates whether new password is the same in both cells and if the first provided password matches the password in the database. If neither condition is met, system informs about unsuccessful attempt.



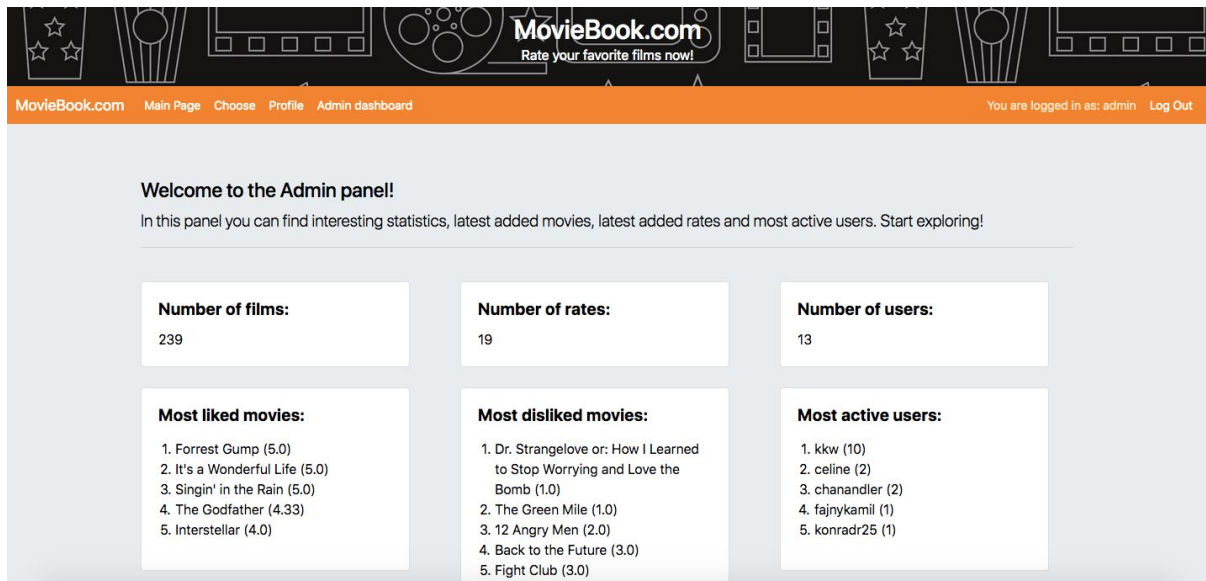
The screenshot shows a web form titled "Edit review" with the subtitle "Here you can change your review." At the top left is a link "Back to reviews" with a left arrow icon. Below the title is a row of five stars. Underneath is a text input field with the placeholder "Write film review here". Below the input field is a "Save changes" button. At the bottom of the form is another text input field with the placeholder "Repeat new password" and a "Submit" button.

11. Editing/deleting review: On page `/profile/reviews` user is not only able to see all movies he rated (without the limit to 3 movies) but also he can edit the review and rating (page `/profile/reviews/edit/<user_id>/<film_id>`) and also delete them. The date of the added opinion is constant - system considers the date from the first input which implicitly means the data of watching the movie for the first time. User cannot access page for editing reviews of other users through typing different `user_id`.



The screenshot shows a "Reviews panel" with the subtitle "Here you can review all your opinions and rated and also edit them." At the top left is a link "Back to profile" with a left arrow icon. Below the subtitle are two review entries. Each entry consists of a movie poster on the left and review details on the right. The first review is for "The Dark Knight (2008)" with a rating of 4 stars, opinion "Funny", and date "Fri Jan 4 14:02:28 2019". The second review is for "The Godfather (1972)" with a rating of 5 stars, opinion "Could it BE any more dope?", and date "Fri Jan 4 14:07:23 2019". Each review has a trash icon and an edit icon below the details.

Movie	Rating	Opinion	Date added
The Dark Knight (2008)	4 star(s)	Funny.	Fri Jan 4 14:02:28 2019
The Godfather (1972)	5 star(s)	Could it BE any more dope?	Fri Jan 4 14:07:23 2019



12. Admin dashboard: Page `/admin` is only possible to enter by admin. Admin can see six different statistics: number of films, number of rates, number of users, most liked movies (with average rate), most disliked movies (with average rate) and most active users (with the number of opinions added). All statistics are obtained from database with each page request.
13. User password security protection: All passwords have been protected using MD5 hashing. System administrator cannot access password from any place. In validations hashed values are being compared.
14. Login validation: User can view following pages only after login:
 - 14.1. `/choose`
 - 14.2. `/film/<film-name>`
 - 14.3. `/profile`
 - 14.3.1. `/profile/edit`
 - 14.3.2. `/profile/reviews`
 - 14.4. `/admin`
 - 14.5. `/welcome`

Validation provided based on cookies. Login validation with cookies provides basis of showing currently logged user in navbar.

Files list

MovieBook

strona.py - file containing python and bottle code

project.db - database used in project

MovieBook > views

base.tpl - main file containing global code

index.tpl - file containing code used to create main page

index_register.tpl - file containing code creating the register form

index_welcome.tpl - file containing code displayed after registering, which welcome new user

index_login.tpl - file containing code creating the login form

index_choose.tpl - file containing code used to browse movies

index_film.tpl - file containing code used to display information about particular movie and also its reviews and ratings

index_profile.tpl - file containing code used to display profile of the user

index_edit.tpl - file containing code used to edit personal information of the user (given while registration)

index_reviews.tpl - file containing code used to display all reviewed films, delete review and also redirecting to edit review page

index_editreview.tpl - file containing code used to edit review

index_password.tpl - file containing code used to change password

index_admin.tpl - file containing html code designing admin panel

MovieBook > python

film-base-scraping.ipynb - python code used to scrap information about movies from IMDb website

MovieBook > logs

Scenario testing users

1. test / test (view like “rated all movies”)
2. kkw / kkw (rated many movies)
3. maga / maga (rated one movie)
4. ml / ml (rated no movies, default description)
5. admin / admin1 (admin panel, default avatar)

