Exercise: Single Page Application

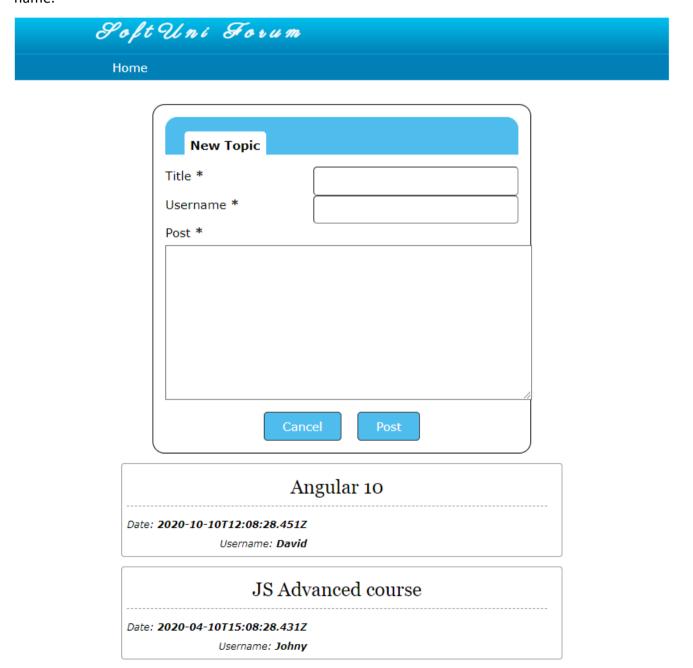
Problems for exercises and homework for the "JavaScript Apps" course @ SoftUni.

Working with Remote Data

For the solution of some of the following tasks, you will need to use an up-to-date version of the local REST service, provided in the lesson's resources archive. You can read the documentation here.

1. SoftForum

This task is to write functionality for a public forum. This app doesn't need any registration. Every user is able to read and write in the forum, and by creating a post or topic, the user should write also his/her own name.













This site is designed to be used for training purposes at SoftUni You can find the real SoftUni forum at this link:







Creating topic with post

On the home page there are all topics visible. Also there is a form for creating a new topic with a title, username and post (comment) in it. The button "Post" should create the new topic if all the fields are correctly filled up (and cleans up the input fields after that). The button "Cancel" only clears all the input fields, without sending any request to the server.

Use this URL to create topics: http://localhost:3030/jsonstore/collections/myboard/posts



Hint:

You can add an attribute with unique id to each post when creating it.

Comment on Topic

When the user selects a topic by clicking on it, the app should redirect to a page with all posts (comments) for the selected topic and a form for creating new post (comment).

The structure for the post should be as the following:

```
<div class="comment">
   <div class="header">
       <img src="./static/profile.png" alt="avatar">
       <span>David</span> posted on <time>2020-10-10 12:08:28</time>
       Lorem ipsum dolor sit amet consectetur adipisicing elit. Iure facere sint
           dolorem quam,
           accusantium ipsa veniam laudantium inventore aut, tenetur quibusdam doloribus. Incidunt odio
          nostrum facilis ipsum dolorem deserunt illum?
   </div>
</div>
```











After typing in the comment and sending the POST request to the server the page should render updated view with the new post.

```
<div class="comment">
   <div class="header">
       <img src="./static/profile.png" alt="avatar">
       <span>David</span> posted on <time>2020-10-10 12:08:28</time>
       Lorem ipsum dolor sit amet consectetur adipisicing elit. Iure facere sint
           dolorem quam,
           accusantium ipsa veniam laudantium inventore aut, tenetur quibusdam doloribus. Incidunt odio
           nostrum facilis ipsum dolorem deserunt illum?
   </div>
   <div id="user-comment">
       <div class="topic-name-wrapper">
           <div class="topic-name">
              <strong>Daniel</strong> commented on <time>3/15/2021, 12:39:02 AM</time>
               <div class="post-content">
                  Lorem ipsum dolor sit amet consectetur adipisicing elit. Iure facere sint
                      dolorem quam.
              </div>
           </div>
       </div>
   </div>
</div>
```

You can use this URL: http://localhost:3030/jsonstore/collections/myboard/comments

Angular 10

















currentUser comment: Username *















2. Movies – SPA

You are assigned to implement a Single Page Web Application. The app keeps users and movies. Logged-in users should be able to view add movies and like movies. Logged-in users should also be able to edit or delete the movies they have added.

REST Service

You can use the provided server to store your data. Use the following endpoints:

- Get all movies: /data/movies (GET)
- Create movie: /data/movies (POST)
- Update movie: /data/movies/:id (PUT)
- Delete movie: /data/movies/:id (DELETE)
- Get number of likes for a movie:
 - /data/likes?where=movield%3D%22{movield}%22&distinct=_ownerld&count (GET)
- Get like for a movie from specific user:
 - /data/likes?where=movield%3D%22<mark>{movield}</mark>%22%20and%20_ownerld%3D%22<mark>{userld}</mark>%22 (GET)
- Add a like: /data/likes (POST)
- Revoke a like: /data/likes/:id (DELETE)

Note that the provided service automatically limits the number of results from every request to 10. You may need to use pagination options, to get all entries.

HTML and CSS

You have been given the web design of the application as HTML + CSS files. Initially all views and forms are shown by the HTML. Your application may hide/show elements by CSS (display: none) or delete/reattach from and to the DOM all unneeded elements, or just display the views it needs to display.

Important: Don't change the elements' class names and ids. Don't rename form fields/link/ids. You are allowed to add data attributes to any elements. You may modify href attributes of links and add action/method attributes to forms.

Navigation Bar

Navigation links should correctly change the current page (view).

- Clicking on the links in the **NavBar** should display the view behind the navigation link.
- Your application may hide/show elements by CSS (display: none) or delete/reattach from and to the DOM all unneeded elements, or just display the views it needs to display.
- The Logged-in user navbar should contain the following elements: [Movies] a link to the Home page, the user caption ("Welcome, {email}"), [Logout]. Each link navigates to the named page.

Movies

The guest users navbar should contain the following elements: : [Movies] which is a link to the Home page and [Login], [Register].

Movies

Register User

By given **email** and **password**, the app should register a new user in the system.

The following validations should be made:



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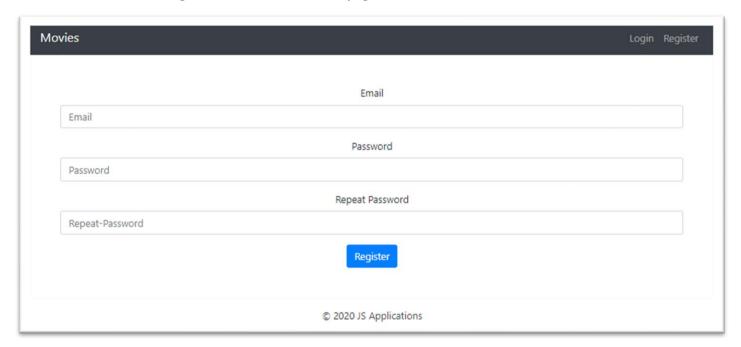








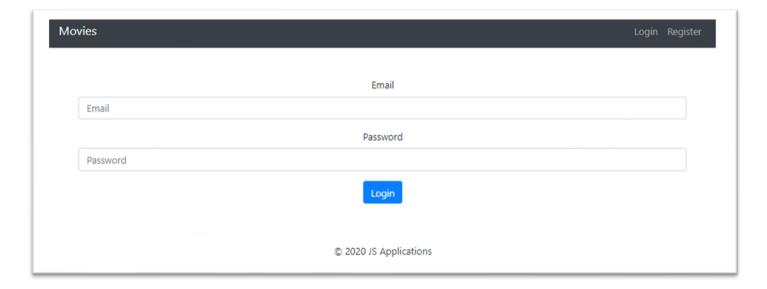
- The email input must be filled
- The password should be at least 6 characters long
- The repeat password should be equal to the password
- After a successful registration the app should redirect to the home page with the right navbar.
- In case of error (eg. invalid username/password), an appropriate error message should be displayed, and the user should be able to try to register again.
- Keep the user data in the browser's session or local storage.
- After a successful registration redirect to Home page.



Login User

By given **username** and **password**, the app should login an existing user.

- After a successful login the user home page should be displayed.
- In case of error, an appropriate error message should be displayed and the user should be able to fill in the login form again.
- Keep the user data in the browser's **session or locale storage**.
- After a successful login redirect to Home page.

















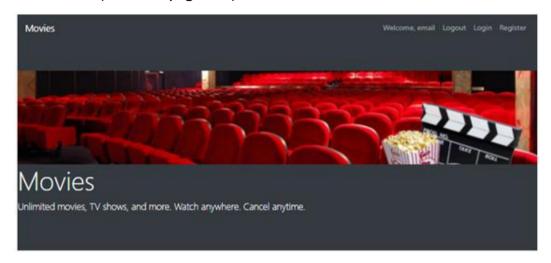
Logout

Successfully logged in users should be able to logout from the app.

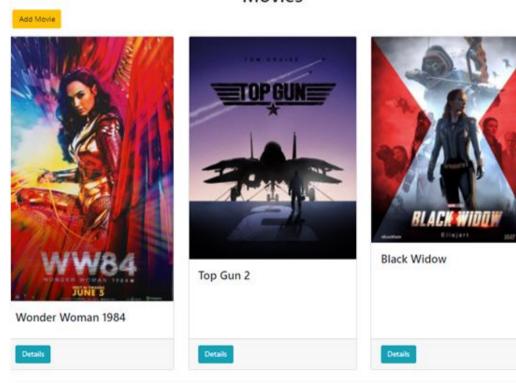
- After a successful logout the anonymous screen should be shown
- The "logout" REST service at the back-end must be called at logout
- All local information in the browser (user session data) about the current user should be deleted
- After a successful logout redirect to Login page.

Home Page

Users should be welcomed by the **Home page**. They should be able to see all added movies:



Movies



[Add Movie] button should refer to the add movie form. It should only be visible if there is a logged-in user.











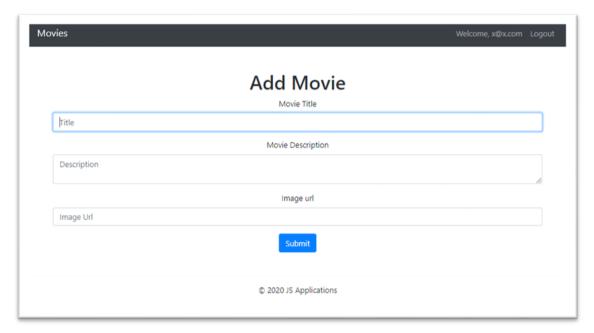


Add Movie

Logged-in users should be able to add movie.

Clicking the [Add Movie] button in the Home page should display the Add Movie page.

- The form should contain the following validations:
 - The title, description and image shouldn't be empty.
 - o After a **successful** movie adding the **Home page** should be shown.
- The newly added movie should be stored in the database collection "movies".



Trying to submit empty feelds should **NOT** be possible.

Movie Details

Logged-in users should be able to view details about movies.

Clicking the [Details] button of a particular movie should display the Movie Details page.

- If the currently logged-in user is the creator of the movie, the [Delete] and [Edit] buttons should be shown, otherwise show the [Like] button.
- When displaying the number of likes a movies has, make sure to only count each user once!







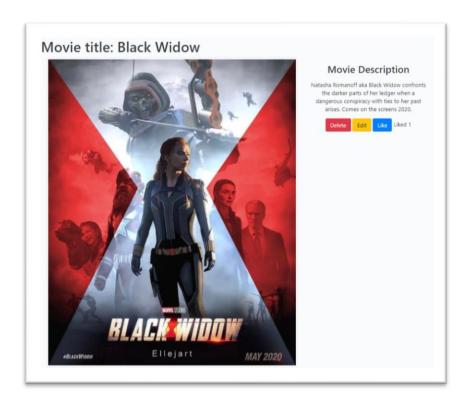


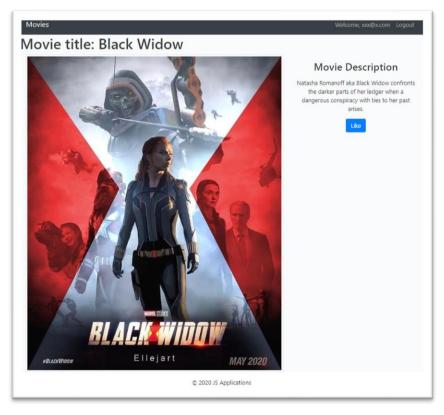












Edit Movie

Logged-in users should be able to edit movies, added by them.

Clicking the [Edit] button of a particular movie on the Movie Details page should display the Edit Movie page inserting the additional information of the movie in the input feelds:

















vies	V	Velcome, x@x.com Lc
	Edit Movie	
	Movie Title	
Black Widow		
	Movie Description	
Natasha Romanoff a	a Black Widow confronts the darker parts of her ledger when a dangerous conspiracy with ties to	her past arises.
	Image url	
https://miro.medium	com/max/735/1*akkAa2CcbKqHsvqVusF3-w.jpeg	
	Submit	
	© 2020 JS Applications	

After a successful edit the user should be redirected to the current movie Details page.

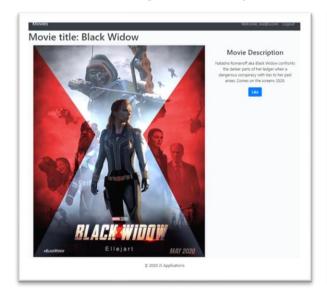
Like Movie

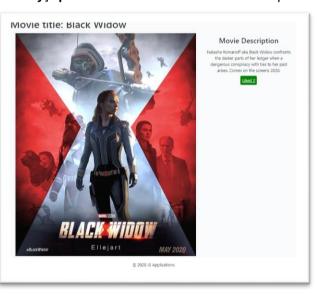
Logged-in users should be able to like movie, added by other user.

NOTE: A user should NOT be able to like a movie, created by himself.

Clicking the [Like] button of an movie (on the Movie Details page) should make a POST request to the following URL: http://localhost:3030/data/likes with body { movield: id } (id – this is the id to the current movie) . After successfully like:

[Like] button changes to [Liked {number of likes}] span so users can't like a movie multiple times.





Delete Movie

Logged-in users should be able to delete their movies.

Clicking the [Delete] button of an movie (on the Movie Details page) should delete the movie.

After successful movie delete the Home page should be shown



















Submitting Your Solution

Place in a **ZIP** file the content of the given resources including your solution. Exclude the **node modules** folder if there is one. Upload the archive to Judge.

