Express.js Retake - Mish-Mash

Exam rules:

- You have 6 hours from 10:00 to 16:00
- When you are ready, delete the node modules folder, make sure all dependencies are listed in the package.json file and submit your archived project at https://judge.softuni.bg/Contests/1157/ExpressJS-28-Aug-2018-Retake
- There will be no breaks during the exam but you can go to the toilet or to breathe some fresh air outside if you are alone
- You are required to edit the provided HTML to make it functional and may extend it as needed.

Application Overview

Get familiar with the provided HTML & CSS and create an application for media channels, like YouTube, with the difference that everything is mashed up like Mish-Mash. You have been tasked to implement this application by the **Indiaver** organization. There are several requirements you must follow in the implementation. Below, you will see, how the application should behave, if implemented correctly.

1. Database Models

The **Database** of the **Mish-Mash** application needs to support **2 entities**:

User

- Has a **Username**
- Has a **Password**
- Has an **Email**
- Has **Followed Channels** a collection of **Channels**.
- Has a Role can be one of the following values ("User", "Admin")

Channel

- Has a Name
- Has a Description
- Has a **Type** can be one of the following values ("Game", "Motivation", "Lessons", "Radio", "Other").
- Has **Tags** a collection of **Strings**.
- Has Followers a collection of Users.

Implement the entities with the correct datatypes.



















2. Application Pages

Guest Pages

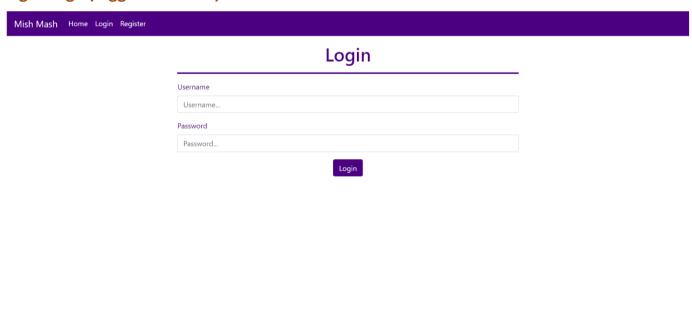
These are the pages and functionalities, accessible by Guests (logged out users).

Index Page (logged out user)



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Login Page (logged out user)



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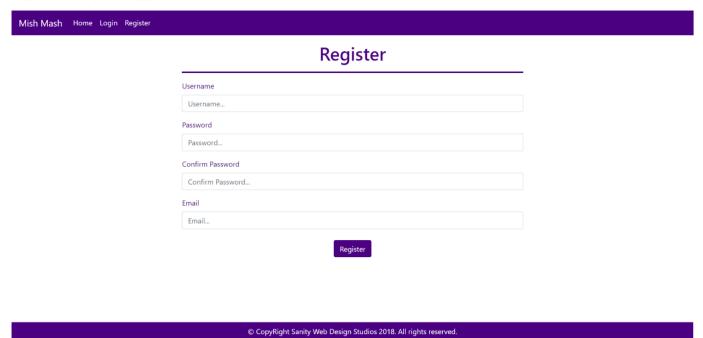








Register Page (logged out user)



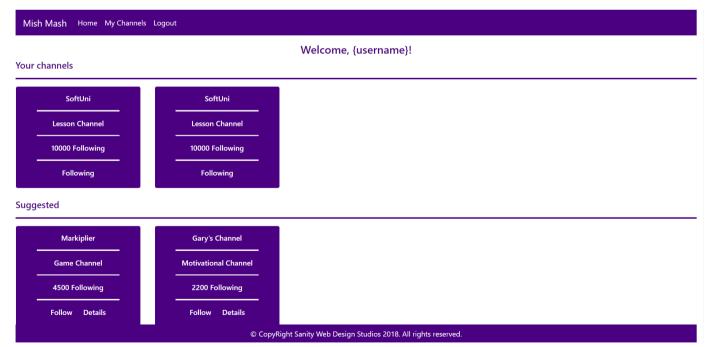
User Pages

These are the templates and functionalities, accessible by Users (logged in users with Role - User).

Logged In Index Page (logged in user)

NOTE: As you can see the elements are aligned to the left, regardless of their count. The maximum count is 5 per row, however they are always aligned to the left.

First













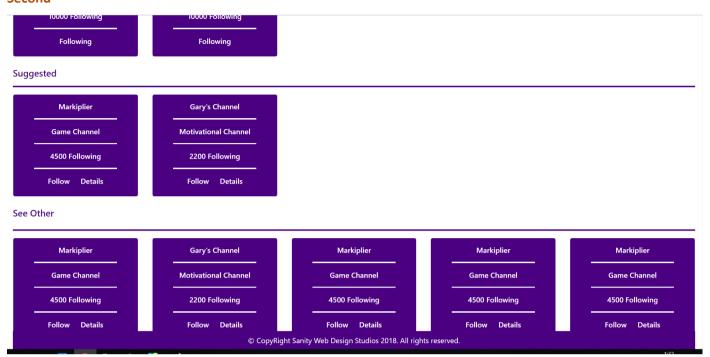








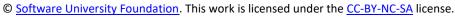
Second



Third













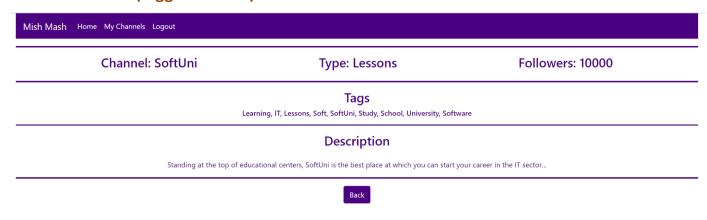






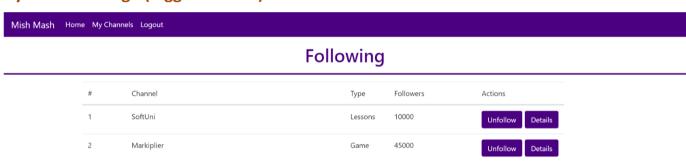


Channel Details (logged in user)



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My Channels Page (logged in user)



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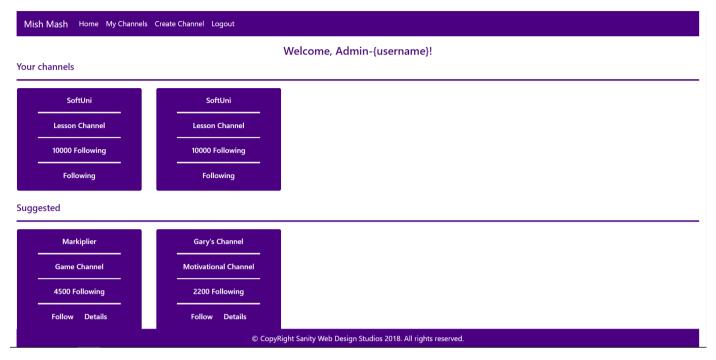


Admin Pages

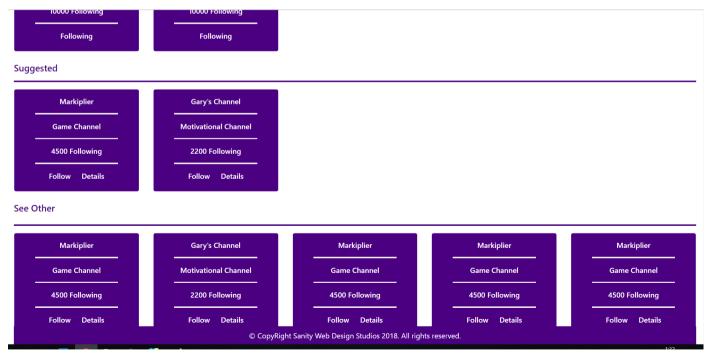
These are the templates and functionalities, accessible by Admins (logged in users with Role - Admin).

Admin Index Page (logged in admin)

First



Second













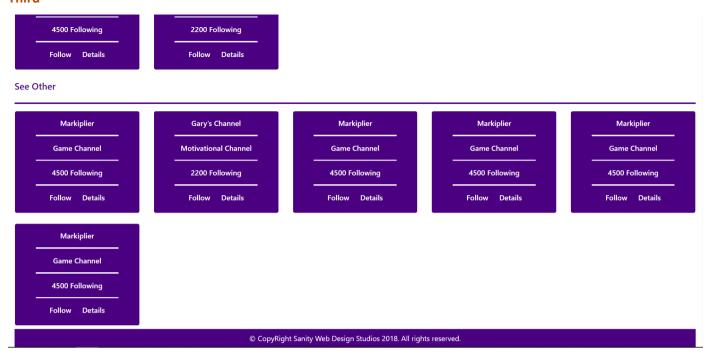




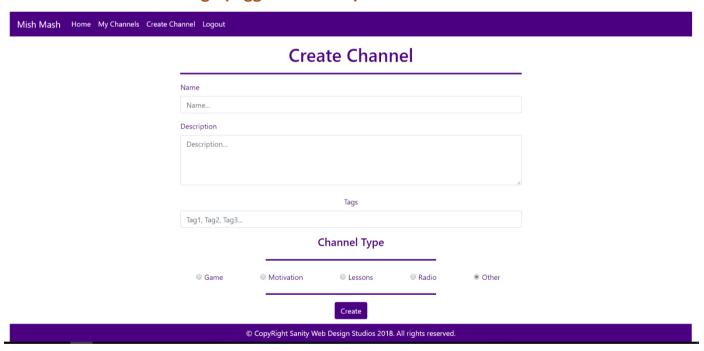




Third



Channel Create Admin Page (logged in admin)



Some of the templates have been given to you in the application skeleton, but the others will be for you to implement, so make sure you implement them correctly. You can use the given ones as helpers.

















3. Functional Requirements

The **Functionality Requirements** describe the functionality that the **Application** must support.

The application should provide Guest (not logged in) users with the functionality to login, register and view the **Index** page.

The application should provide Users (logged in) with the functionality to logout, and view all channels, and follow / unfollow a Channel, and view details about a Channel.

The application should provide Admins (logged in, with role - Admin) with the functionality to logout, and view all channels, and follow / unfollow a Channel, and view details about a Channel, create a Channel.

When you register a new **User**, it should be assigned with a **role – User**.

Users

Users can follow or unfollow Channels. If a Channel is NOT followed, it should be represented on the Index page as a rectangular element, which holds 2 buttons at its bottom – [Follow] and [Details].

- Upon clicking the [Follow] button, the Channel should be added to the Followed Channels of the current user.
- Upon clicking the [Details] button, the current user should be redirected to the Channel's Details Page.

If a **Channel** is **followed**, it should be represented on the **Index page** as a rectangular element, which holds a simple text at its bottom - "Following", with no functionality behind it.

Channels

There are **3 sections** on the **Index page**:

- Your Channels
- Suggested
- See Other

The **Your Channels** section holds all of the current user's **Followed Channels**. If there are **no such Channels**, it should just be left empty.

The Suggested section holds any Channels, which have at least 1 common tag with one of the current user's Followed Channels.

The See Other section holds all Channels, which are NOT included in the Your Channels and Suggested sections.



















4. Security Requirements

The **Security Requirements** are mainly access requirements. Configurations about which users can access specific functionalities and pages.

- **Guest** (not logged in) users can access **Index** page and functionality.
- **Guest** (not logged in) users can access **Login** page and functionality.
- **Guest** (not logged in) users can access **Register** page and functionality.
- **Users** (logged in) can access **User LoggedIn Index** page and functionality.
- **Users** (logged in) can access **User Channel Details** page and functionality.
- **Users** (logged in) can access the My Channels functionality.
- Users (logged in) can access the Channel Follow functionality.
- Users (logged in) can access the Channel Unfollow functionality.
- Users (logged in) can access Logout functionality.
- **Admins** (logged in) can access **every functionality** a **normal** logged in **User** can.
- Admins (logged in) can access Admin LoggedIn Index page and functionality.
- **Admins** (logged in) can access the **Channel Create** page and functionality.



