Spring Fundamentals Exam

LikeBook Application

Exam for the "Spring Fundamentals" course @ SoftUni.

With its easy-to-use interface and detail-rich profiles, LikeBook App makes it clear why it's one of the most enduring social network apps. This is the service to try if you're looking for a connection with friends and new communities. There are several requirements you must follow in the implementation:

*An example skeleton is included in the resources, which can be used as desired.

1. Database Requirements

The **Database** of the **LikeBook** application needs to support **3 entities**:

User

- Has an Id "UUID-String" or Long
- Has a **Username (unique, not null)**
 - Username length must be between 3 and 20 characters (inclusive of 3 and 20).
- Has a **Password (not null)**
 - o Password length must be between 3 and 20 characters (inclusive of 3 and 20).
- Has an **Email (unique, not null)**
 - o Must contain '@'.

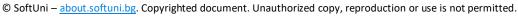
Post

- Has an Id "UUID-String" or Long
- Has a **Content (not null)**
 - o Content length must be between 2 and 150 characters (inclusive of 2 and 150).
- Has a User (not null)
 - The creator of the post. One post can have only one user and one user may have many posts.
- Has a User Likes
 - o The user likes contains users. One user may like many posts and one post can be liked by many users
- Has a Mood (not null)
 - One post has one mood and one mood can have many posts.

Mood

- Has an Id "UUID-String" or Long
- Has a Mood name (unique, not null)
 - o an option between (Happy, Sad and Inspired)
- Has a **Description (optional)**





















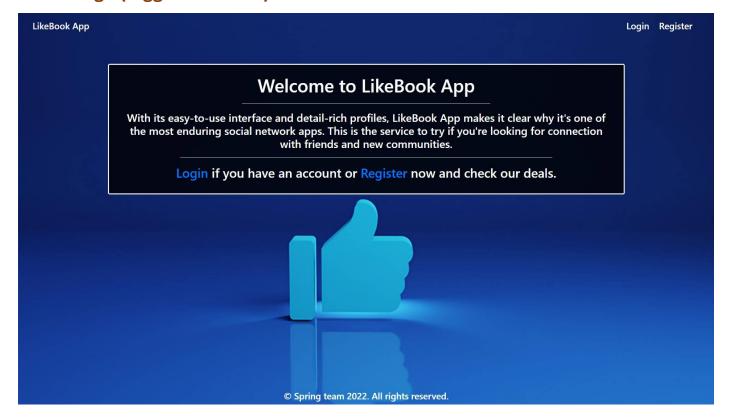
Implement the entities with the correct data types and implement repositories for them.

2. Initialize moods

- Implement a method that checks (when the app started) if the database does not have moods and initialize them
 - O You are free to do it in different ways.

3. Page Requirements

Index Page (logged out user)











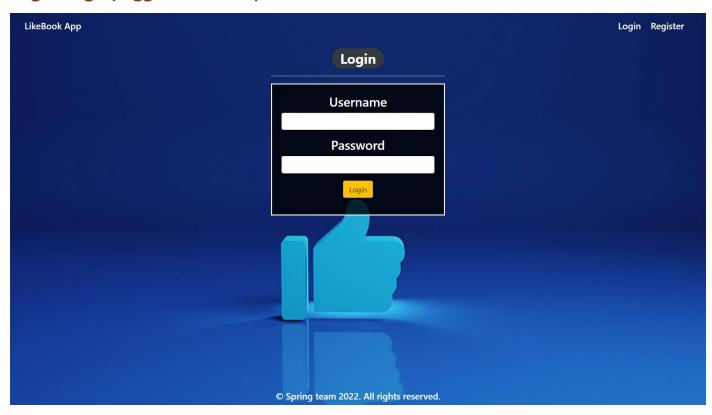




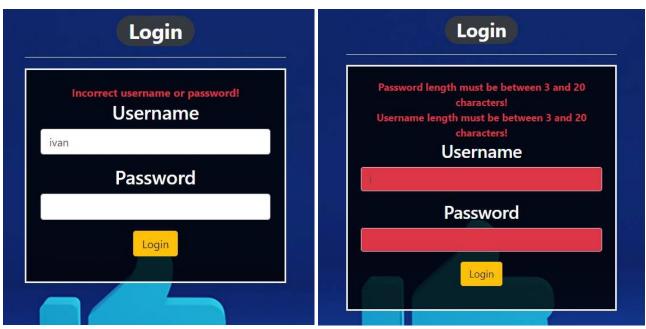




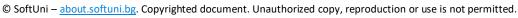
Login Page (logged out user)



Login Page validations











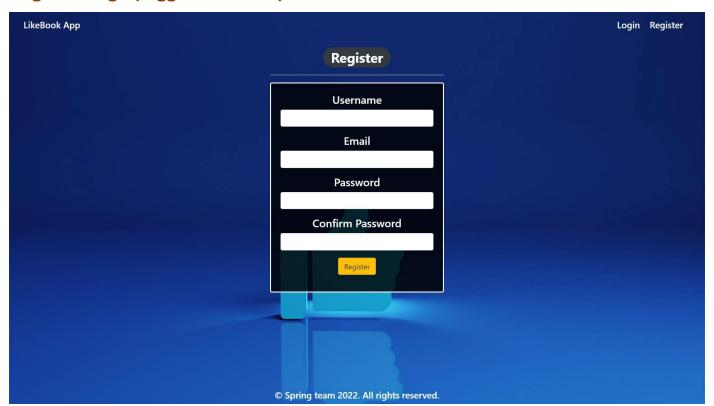








Register Page (logged out user)











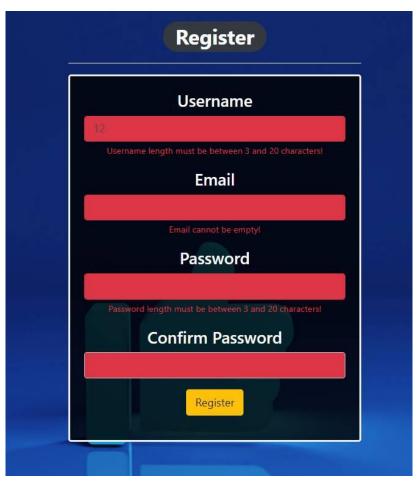






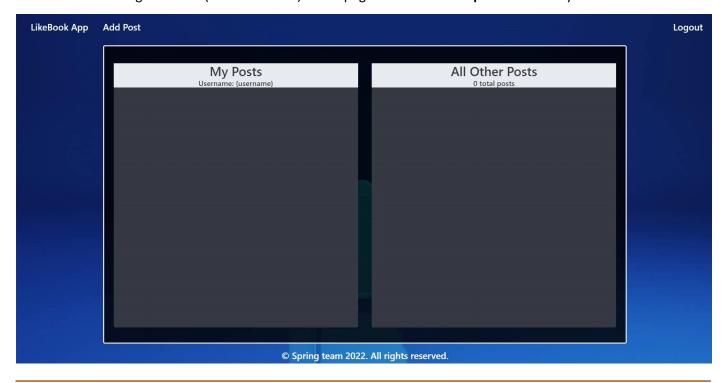


Register Page validations



Home Page (without having any posts)

- Note: The left section of the page should visualize current logged user's posts from the database.
- Note: The right section (All Other Posts) of the page should visualize **posts** created by other users.











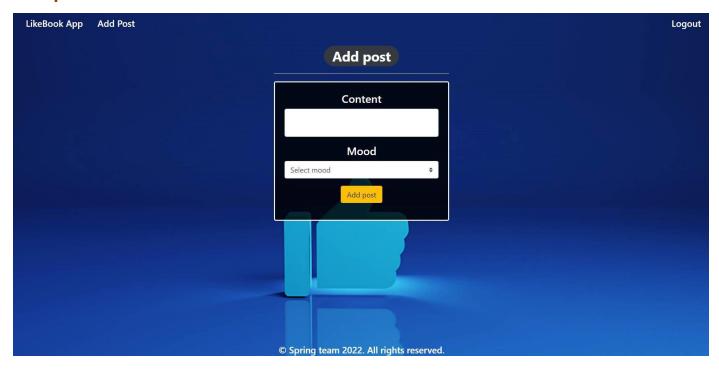




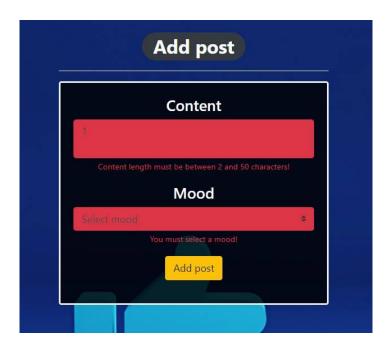




Add post



Add post validation











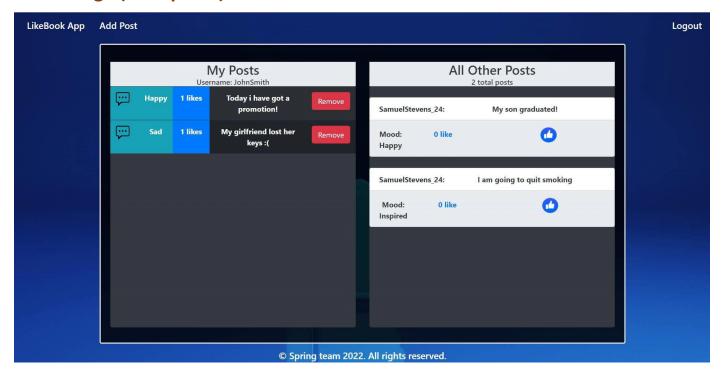








Home Page (with posts)



The templates have been given to you in the application skeleton, so make sure you implement the pages correctly.

NOTE: The templates should look **EXACTLY** as shown above.

NOTE: The templates do **NOT require additional CSS** for you to write. Only **bootstrap** and the **given CSS** are enough.

4. 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 log in, register and view the Index page.

The application should provide Users (logged in) with the functionality to log out, add a new post (Add Post page), view all posts (Home page) and like other people's posts from the All Other Posts section and remove their posts from the My Posts section.

LikeBook App in the navbar should redirect to the appropriate URL depending on that if the user is logged in.

The application should provide functionality for adding posts with moods of Happy, Sad and Inspired.

The posts should be separated into different sections according to their creator.

When the user clicks on the Like button of some post, he likes the post. When he clicks on the Remove button, just delete the post from his **posts** in DB and redirect to the home page.

Bellow the All Other Posts banner is located an info bar that shows the sum of all posts made by other users.

The application should store its data in a MySQL database.

5. Security Requirements

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



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- **Guest** (not logged in) users can access the **Index** page.
- Guest (not logged in) users can access the Login page.
- Guest (not logged in) users can access the Register page.
- **Users** (logged in) can access the **Home** page.
- Users (logged in) can access Add Post page.
- **Users** (logged in) can access the **Logout** functionality.

6. Scoring

Database - 10 points.

Pages - 25 points.

Functionality – 35 points.

Security – 5 points.

Validations – 15 points.

Code Quality – 10 points.













