

## Like Book Application

# Regular Exam [Spring Fundamentals]

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:

#### 1. Database Requirements

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

#### User

- Id Accepts UUID-String or Long values
- Username
  - The length of the values should be between 3 and 20 characters long (both numbers are INCLUSIVE)
  - The values should be **unique** in the database
- Password
  - The length of the values should be at least 3 and 20 characters long (both numbers are INCLUSIVE)
- Email
  - The values should contain a '@' symbol)
  - The values should be **unique** in the database

#### **Post**

- Id Accepts UUID-String or Long values
- Content
  - The length of the values should be between 2 and 150 characters long (both numbers are INCLUSIVE)
- User
  - The creator of the post. One post can have only one user as creator and one user can have many posts
- User Likes
  - The user likes contains users. One user may like many posts and one post can be liked by many users
- Mood
  - One post has one mood and one mood can have many posts

#### Mood

- Id Accepts UUID-String or Long values
- Has a Mood name
  - an option between (HAPPY, SAD and INSPIRED)
- Description
  - optional

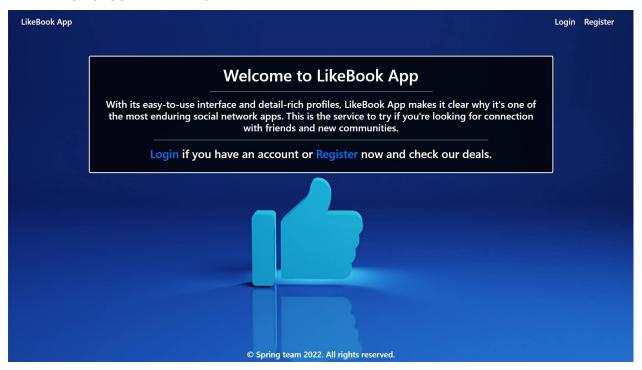
Nullable/Empty/Blank values are not allowed unless explicitly mentioned. Implement the entities with the correct data types and implement the repositories for them.

Like Book 1

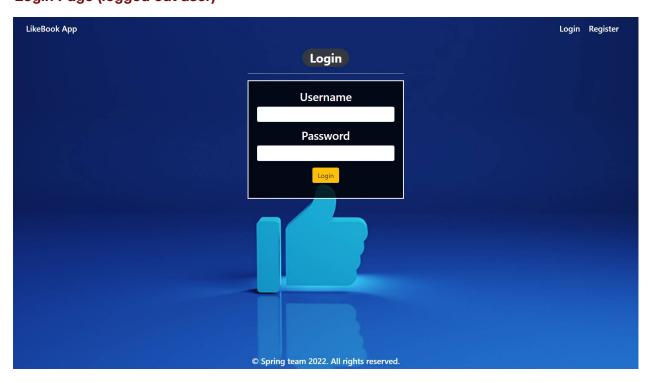
### 2. Initialize categories

- Implement a method that checks (when app started) if the database does not have any category and initialize them
  - You are free to do this in some different ways
  - You can skip the description if you want

# 3. Page Requirements Index Page (logged out user)



## Login Page (logged out user)

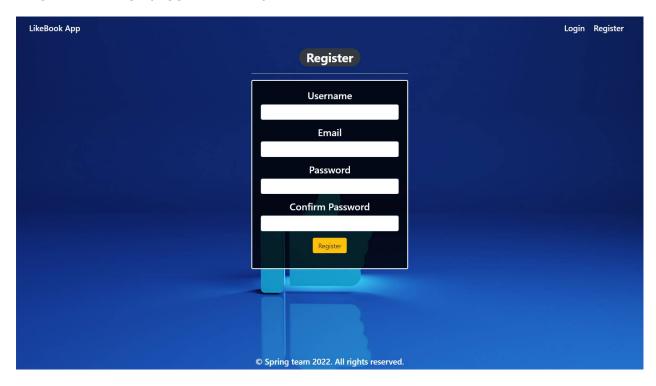


# **Login Page validations**

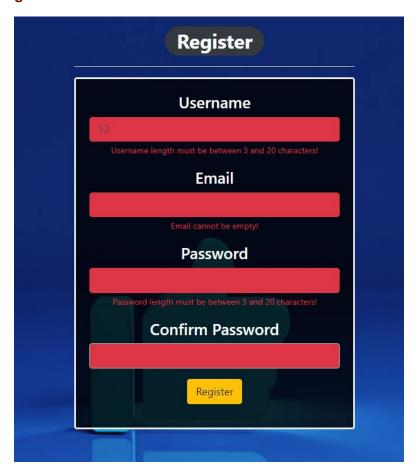




# **Registration Page (logged out user)**



# **Registration Page validations**

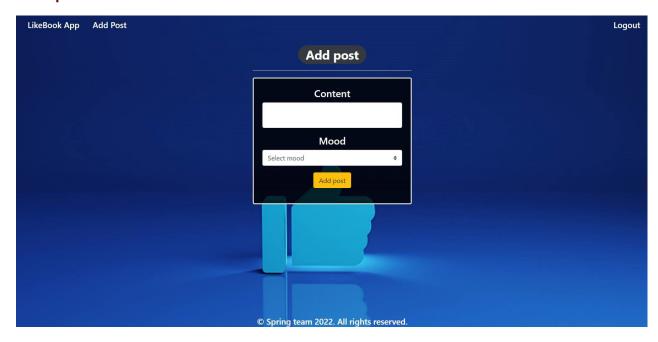


# Home Page (without having any posts)

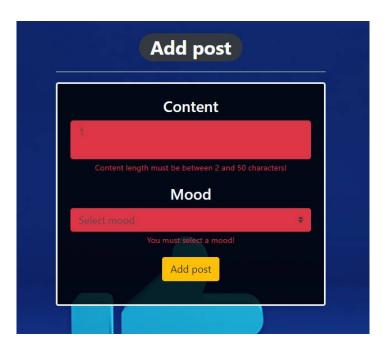
- The left section of the page should visualize current logged user posts from the database. The right section (All Other Posts) of the page should visualize posts created by other users.



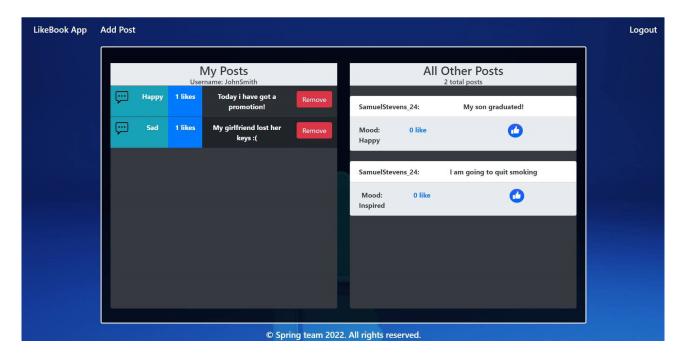
# Add post



# 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.

#### NOTES:

- The templates should look EXACTLY as shown above.
- 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 **login**, **register** and **view** the **Index** page.

The application should provide Users (logged in) with the functionality to **logout**, **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 or PostgreSQL database.

## 5. 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;
  - Login page;
  - Register page.
- Users (logged in) can access:
  - **Home** page;
  - Add Post page;
  - Logout functionality.

## 6. Scoring

Database – 10 points Pages – 25 points Functionality – 35 points Security – 5 points Validations – 15 points Code Quality – 10 points