

### **1. Title: Health Check Pro:**

Here we will track the health status of the user.

### **2. Project Statement:**

"Health Check Pro" is an easy-to-use app that helps you understand and improve your overall health. It looks at your physical health, mental well-being, diet, and lifestyle choices. By using reliable tests and data, it gives you personalized advice and insights. The app is designed to be simple and user-friendly, so anyone can use it to take charge of their health.

#### **Outcomes:**

- Allow users to gain better insights into their overall health by providing personalized assessments across physical, mental, and nutritional dimensions.
- Provide users to monitor health status.
- Facilitate team coordination through the scoreboard.
- Real-time feedback and progress tracking for improved physical and mental health.

### **3. Modules to be implemented**

- 1. User Authentication and Registration.
- 2. Health assessment interface.
- 3. Leader Board interface.
- 4. Category-wise scores of users.

### **4. Week-wise module implementation and high-level requirements with output screenshots**

#### **Milestone 1: Weeks 1 & 2**

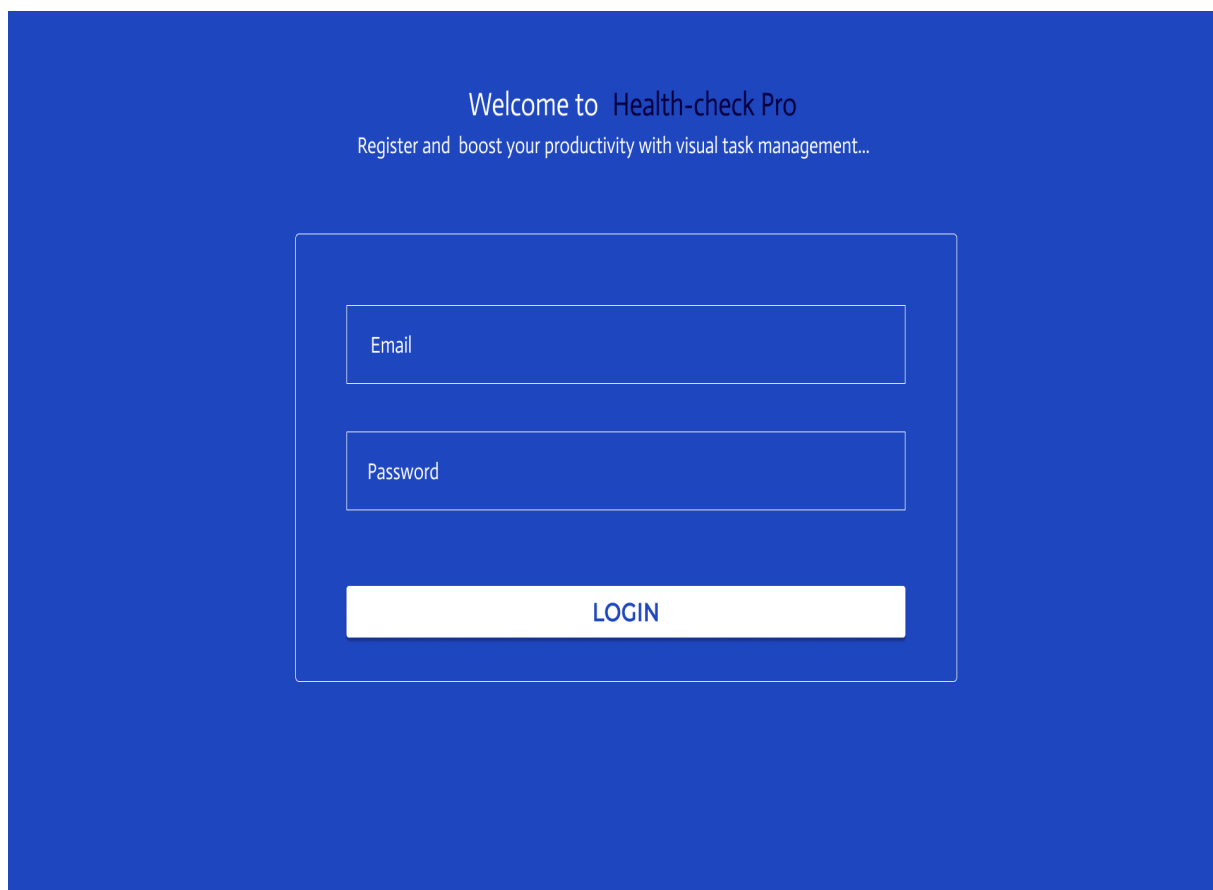
##### **Week 1: User Authentication and Registration**

- Designing URL endpoints for Registration, Login & Reset password
- Designing database table for the user.
- Designing User Interface modules for Registration, Login, and Reset password.
- Test Registration, Login and reset password process through Postman.

## Week 2: User Authentication and Registration Integration

- Implementing user registration functionality.
- Developing user login mechanism.
- Integrating email verification and password reset features.
- Testing the registration, login, and reset password process end to end.

### Output screenshot:



The screenshot displays a login interface for 'Health-check Pro' on a solid blue background. At the top, the text 'Welcome to Health-check Pro' is centered in white, followed by the tagline 'Register and boost your productivity with visual task management...' in a smaller white font. Below this, a white-bordered box contains the login form. Inside the box, there are two input fields: the top one is labeled 'Email' and the bottom one is labeled 'Password', both in a light gray font. At the bottom of the box is a white rectangular button with the word 'LOGIN' in blue capital letters.

## Welcome to Health-check Pro

Register and boost your productivity with visual task management...

REGISTER HERE

## Welcome to Health-check Pro

Register and boost your productivity with visual task management...

SEND OTP

Welcome to Health-check Pro

Register and boost your productivity with visual task management...

Enter OTP

Enter New Password

Re-Enter Password

RESET PASSWORD

## **Milestone 2: Weeks 3 & 4**

### **Week 3: Design Database for Health Assessment Form and Dashboard display**

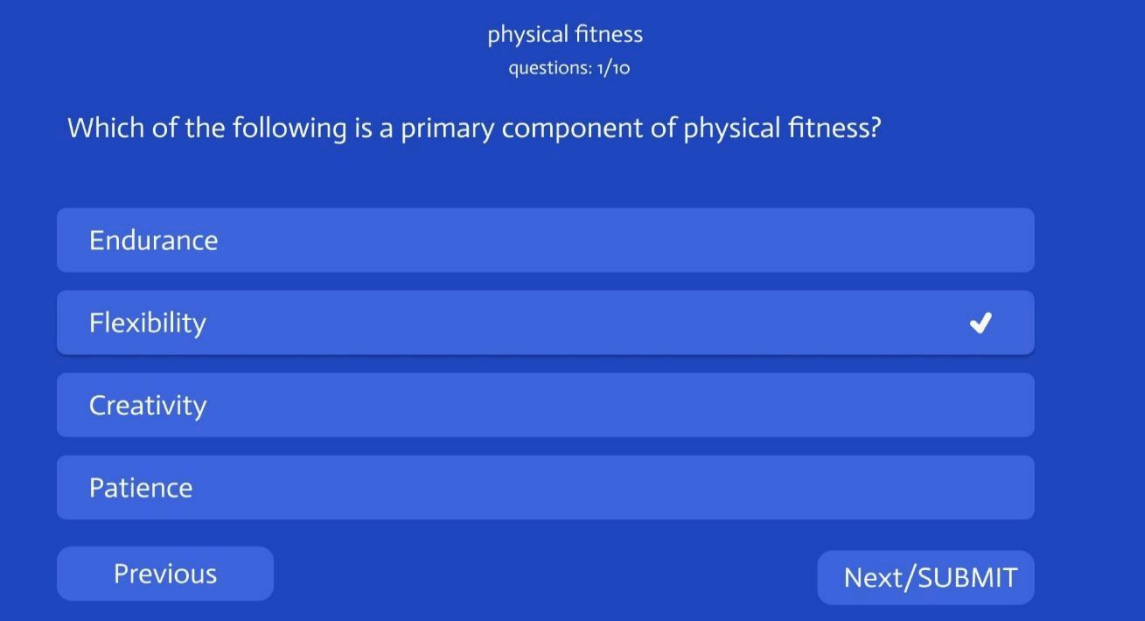
- Designing the Schema for the health assessment scoreboard.
- Designing the individual score for each question having a percentage.
- Maintain history of the score, each option having points to get an overall score.
- Designing API for Physical fitness, nutrition, mental well-being, lifestyle, and bio markers questions.
- Designing APIs to store user profile data.

### **Week 4: Integration of Dashboard, Assessment category score**

- Integrating Dashboard API with user table.
- Integrating Physical fitness, nutrition, mental well-being, lifestyle, and biomarkers questions with API in the assessment category score table.
- Integrating assessment score with user assessment score API.
- Visual representation of score in each category.
- Test health assessment submissions, and ensure user can view their assessment scores on the dashboard. We have a view option on the score

board, after clicking on the view option user can check his overall detailed score in the overall scorecard.

### Output screenshots:



The screenshot shows a quiz interface with a dark blue background. At the top, the text "physical fitness" is displayed in white, followed by "questions: 1/10" in a smaller font. Below this, the question "Which of the following is a primary component of physical fitness?" is presented. There are four answer options, each in a light blue rounded rectangle: "Endurance", "Flexibility" (which is selected and marked with a white checkmark), "Creativity", and "Patience". At the bottom, there are two buttons: "Previous" on the left and "Next/SUBMIT" on the right, both in light blue rounded rectangles.

physical fitness  
questions: 1/10

Which of the following is a primary component of physical fitness?

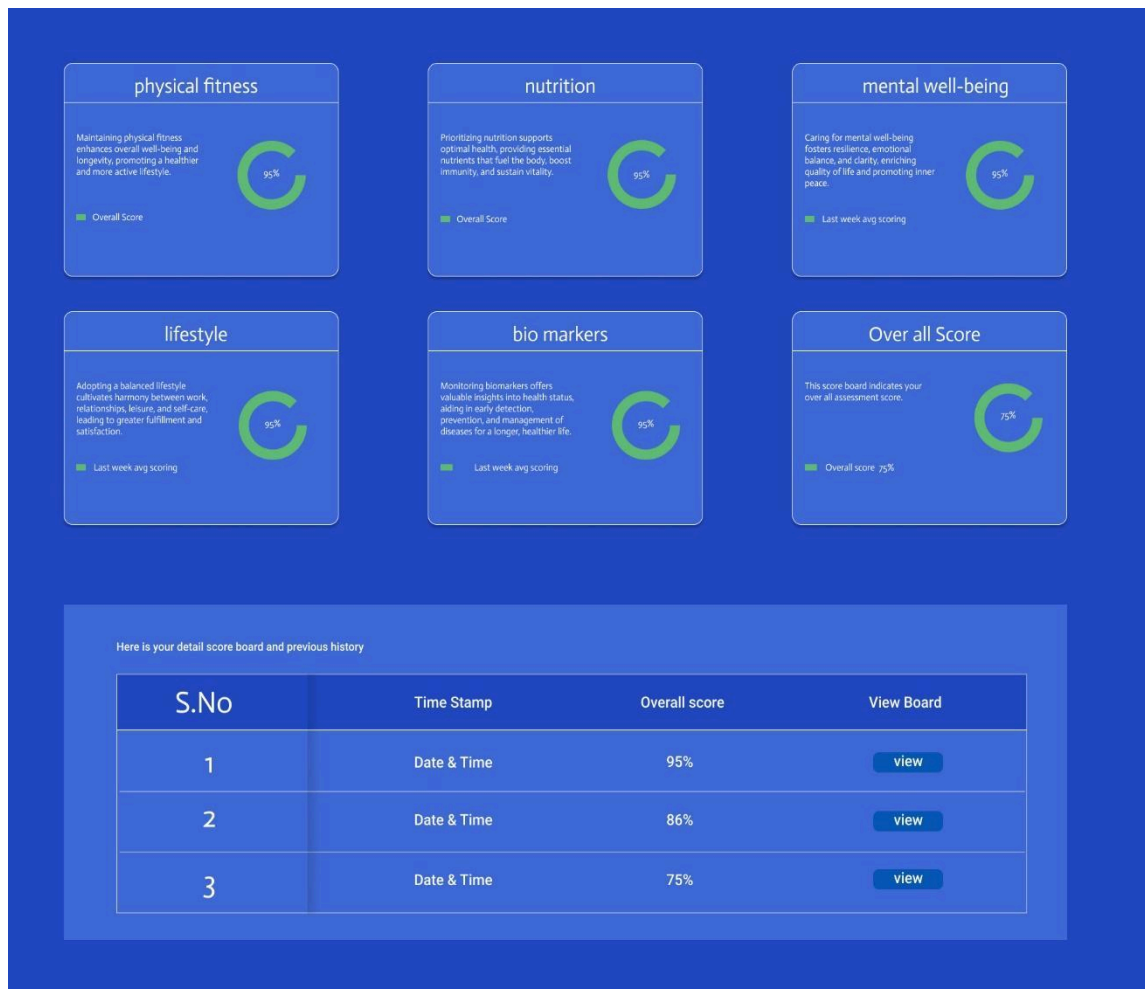
Endurance

Flexibility ✓

Creativity

Patience

Previous Next/SUBMIT



### Milestone 3: Weeks 5 & 6

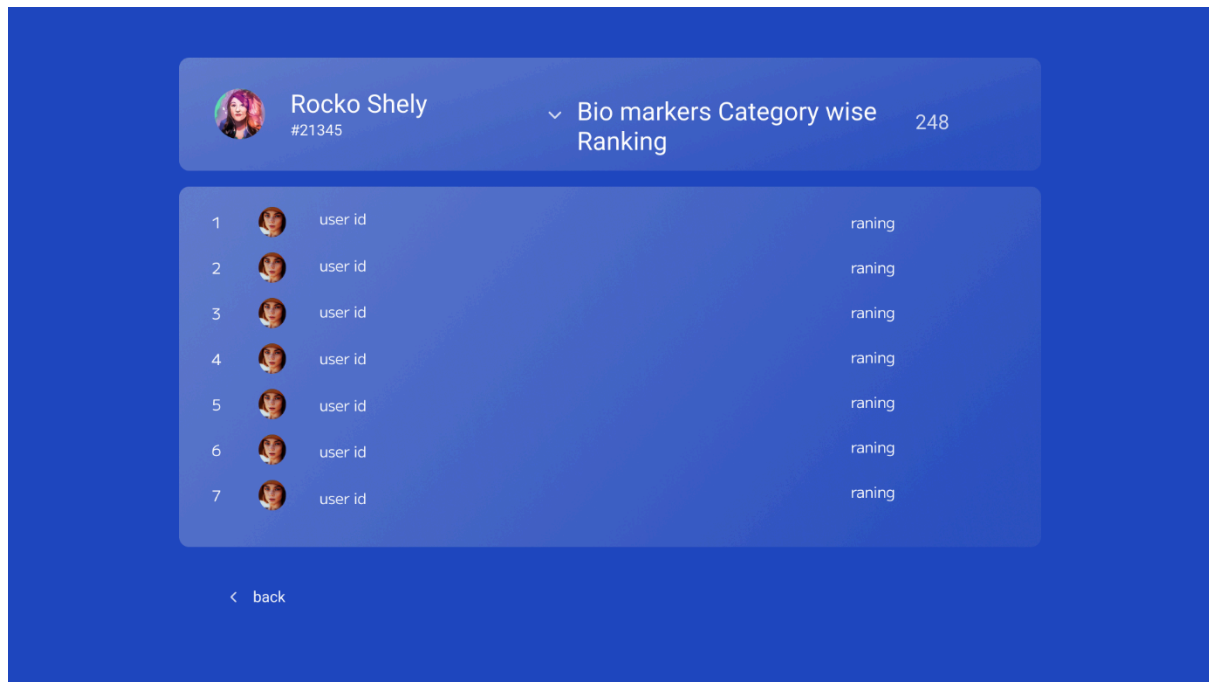
#### Week 5: Design and Integrate a list of assessments with details.

- Designing a List of previous assessments with details.
- Designing API for handle retrieval for user assessments with questions and answers.
- Integrate the Previous assessment viewer with API.

#### Week 6: Design and Integrate the Leaderboard interface.

- Design Interface of the leaderboard module.
- Implement APIs to fetch overall and category-wise leaderboard scores.
- Integrate the leaderboard interface with API002E
- Add the functionality to the API to refresh the leaderboard after the required time.

## Output screenshots :



## Milestone 4: Weeks 7 & 8

### Week 7: Integration Testing

- Testing integration between APIs and frontend pages.
- Testing integration between APIs and database.
- Getting code review done by mentors.
- Creating test cases for smoke tests and implementing smoke testing.
- Creating defect reports in an Excel sheet and submitting the report.

### Week 8: Integration Testing

- Testing integration between APIs and frontend pages.
- Testing integration between APIs and database.
- Getting code review done by mentors.
- Creating test cases for smoke tests and implementing smoke testing.

## Evaluation Criteria:

### Milestone 1 Evaluation (Week 3):

- Completion of user authentication and registration.
- Define a set of questions for each category and store it in DB.

### Milestone 2 Evaluation (Week 5):

- Ability to view questions and answers of each assessment.

### Milestone 3 Evaluation (Week 7):

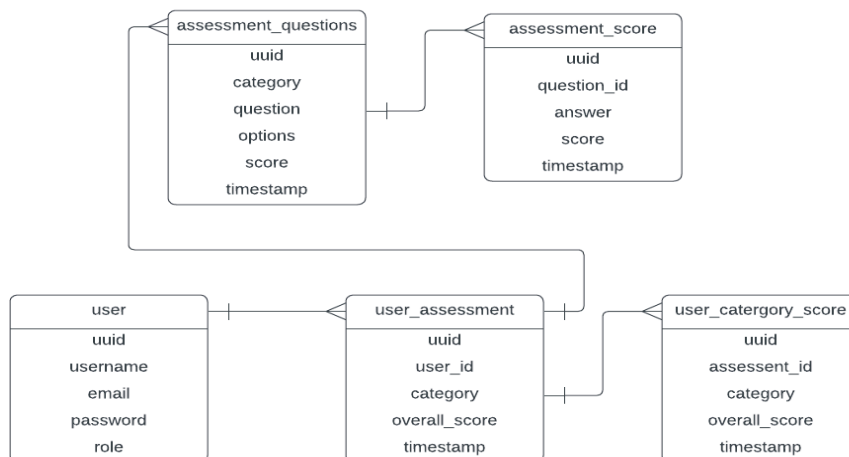
- Leaderboard functionality must be implemented and display accurate overall and category-wise scores of users.

### Milestone 4 Evaluation (Week 10):

- Complete the System Integration Test with the execution of all test cases.

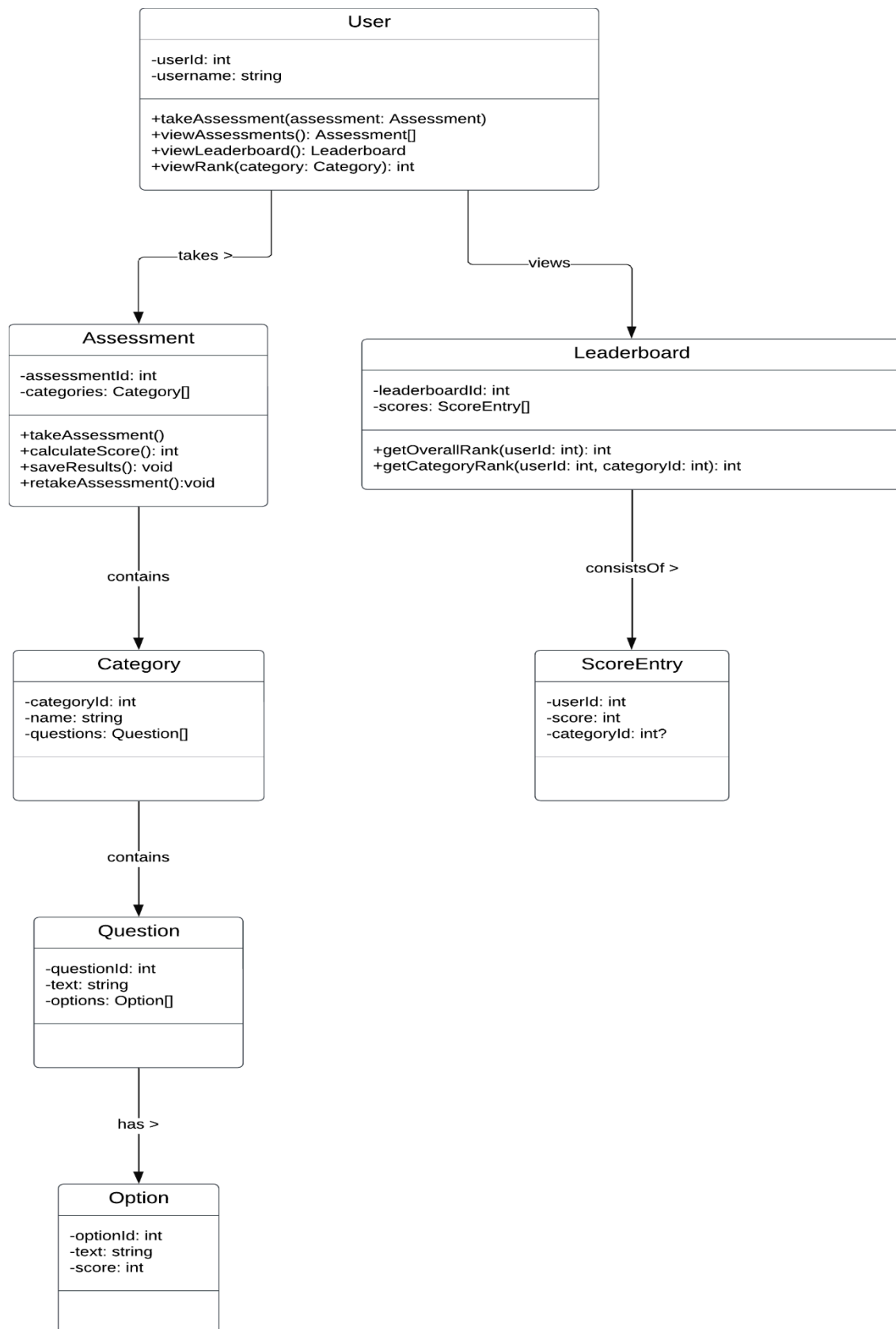
## 5. Design Diagrams:

### Class Diagram





## Class Diagram: Service Interface



Class Diagram: Repository

