

# CSIT883 System Analysis and Project Management

**User Requirements** 

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# **Group 2**

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# 1. Sign Up

# **Purpose**

Allows new users to create an account.

### **Details**

- Fields Required: Nickname, password, and email.
- Role Selection: Users choose between student or teacher roles.
- **Validation:** Email verification for authenticity confirmation.

# 2. Login

# **Purpose**

Secure entry point for returning users.

### **Details**

- Login Credentials: Users can use either their nickname or email.
- Post-login Redirect: Directs to the Dashboard upon successful login.

# 3. Dashboard

# **Purpose**

Central hub for user activities and analytics.

# **Features**

- **Statistics:** Visual analytics display performance metrics.
- Access Points: Quick links for question creation, review, and quizzes.
- **Settings Access:** Link to update personal and account settings.

# 4. Settings

### **Purpose**

Manages personal and account information.

# **Features**

- **Personal Information:** Update name, email, and other details.
- **Password Management:** Secure password updating.
- **Account Preferences:** Customize notifications, privacy, and sharing settings.

# 5. Create Questions

# Purpose

Enables the creation of customized practice questions.

### **Process**

- **Input Specifications:** Define number of questions, subject, specific knowledge points in a subject, and type(multiple/single-choice questions or fill-in-the-blank questions).
- **GAI Library Integration:** Uses AI to generate tailored questions. The library will return the questions in json formats with its answers and the reason of it. But the fill-inthe-blank questions will be somehow special: the answer of it could be vigrous.
  - **Feedback Loop:** If a user's fill-in-the-blank answer differs from the AI-generated one, it is sent back to the library for validation.

# 6. Question Bank

# **Purpose**

Stores and manages created questions.

# Capabilities

- **Storage:** Saves questions in a personal repository.
- **Review and Modify:** Options to revisit or alter stored questions.
- Export Functionality: Export questions in multiple formats for offline use.

# 7. Answer Questions

# **Purpose**

Engages users with their created or saved questions.

### **Options**

- **Sequential Mode:** Answer all questions before reviewing corrections.
- Instant Feedback Mode: Immediate feedback after each question.

### **Function**

- Progress Tracking: Shows how many questions have been answered.
- Question Type Prompt: Should have clear prompts to show the type of question.

# 8. Analyze Performance

# **Purpose**

Provides analytical insights into user performance. Also display in the Dashboard .

# **Details**

- **Performance Metrics:** Analysis of correct and incorrect responses.
- **Improvement Suggestions:** Recommends areas for further study.
- **Custom Reports:** Generate detailed performance reports.