

# Requirement specification

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## Supplementary specification

### System Quality Requirements

1. The system should respond in an acceptable timeframe.
2. The system should be user-friendly
  - a. System provides helpful error messages
  - b. System avoids unnecessary input
3. The system should be secure
  - a. SQL injections
  - b. Javascript injections
  - c. Password handling
  - d. Session hijacking

## **UC1 User plays a quiz**

### **Preconditions**

1. User is authenticated Ex. UC4
2. User has chosen a quiz Ex. UC3

### **Main scenario**

1. System provides a quiz for user to answer based on quiz chosen
2. User completes the quiz
3. System presents a summary of how many answers the user got right and how many answers he got wrong

## **UC2 User gets compilation of accomplished quizzes**

### **Preconditions**

1. User is authenticated Ex. UC4

### **Main scenario**

1. Starts when a user wants to see what quiz results of accomplished quizzes
2. System present compilation of accomplished quizzes

## **UC3 User gets compilation of playable quizzes**

### **Preconditions**

1. User is authenticated Ex. UC4

### **Main scenario**

1. Starts when user wants to choose quiz to play
2. System presents a compilation of quizzes for the user to choose from

## **UC4 Authenticate user**

### **Main scenario**

1. Starts when a user wants to authenticate
2. System asks for username, password
3. User provides username and password
4. System authenticates the user and presents that authentication succeeded

### **Alternate Scenarios**

- 4a. User could not be authenticated
  1. System presents an error message
  2. Step 2 in main scenario

## **UC5 Logging out an authenticated user**

### **Preconditions**

1. A user is authenticated Ex. UC4

### **Main scenario**

1. Starts when a user no longer wants to be logged in
2. The system present a logout choice
3. User tells the system he wants to log out.
4. The system logs the user out and presents a feedback message

## **UC6. Register a new user**

### **Main scenario**

1. Starts when a user wants to create login-credentials
2. System ask for username and password
3. User provides username and password
4. System saves the credentials and presents a success message

### **Alternate Scenarios**

- 4a. Credentials could not be registered (Username already used, wrong username format, Wrong password format.
  1. System presents an error message
  2. Step 2 in main scenario.

## **UC7 Admin creates a quiz**

### **Preconditions**

1. User is authenticated as role Admin Ex. UC4

### **Main scenario**

3. Starts when user wants to create quiz
4. System presents a form to create quiz

5. User fills form and submits
6. System presents feedback message

#### **Alternate Scenarios**

- 6a. System presents that quiz already exists
  1. System presents error message
  2. Step 4 in main scenario.

### **UC8 Admin removes a quiz**

#### **Preconditions**

1. User is authenticated as role Admin Ex. UC4

#### **Main scenario**

1. Starts when user wants to remove quiz
2. System presents a confirmation button if sure about removing quiz
3. User submits
4. System presents feedback message

### **UC9 Admin edits a quiz**

#### **Preconditions**

2. User is authenticated as role Admin Ex. UC4

#### **Main scenario**

5. Starts when user wants to edit quiz
6. System presents a form to edit
7. User fills form and submits
8. System presents feedback message