# System Requirements Document

## 1. Context

In the modern educational environment, evaluating students through online tests is becoming increasingly popular. This project aims to build a web platform for students and teachers, where teachers can create and manage quizzes/exams, and students can take tests and receive immediate results. The system helps streamline the process of test creation, grading, and result management, ensuring fairness and transparency in the assessment process.

## 2. Objectives

- Build an online testing system with a user-friendly interface for both teachers and students.  
- Allow teachers to flexibly manage tests: create, edit, limit time, control result visibility.  
- Allow students to log in, take tests, and receive instant feedback.  
- Store submission history and results for tracking student progress.

## 3. Main Actors

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| Actor | Role Description |
| Teacher | Creates and manages tests, views student scores. |
| Student | Takes tests and views results. |
| System | Handles logic processing, data storage, and auto-grading. |

## 4. Main Features and Detailed Descriptions

### 4.1 Features for Students

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| No. | Feature Name | Description |
| 1 | Login | Students log in using email and password to access the system. |
| 2 | View Available Tests | Displays tests that are available for the student to take based on time and allowed attempts. |
| 3 | Take a Test | Students take tests within the given time frame. Supports multiple question formats such as multiple-choice and essay. |
| 4 | Submit and Get Results | After submission, the system auto-grades (for multiple choice) and displays the result if permitted. |
| 5 | Review Submitted Tests | If allowed by the teacher, students can review their submitted answers, correct answers, and scores. |

### 4.2 Features for Teachers

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| --- | --- | --- |
| No. | Feature Name | Description |
| 1 | Login | Teachers log in using email and password to access the management system. |
| 2 | Create Tests | Teachers can create tests with name, description, time limit, max attempts, and question list. |
| 3 | Edit/Delete Tests | Edit or delete a test if no student has attempted it yet. |
| 4 | Add Questions | Supports adding question types like multiple-choice, essay, and allows attaching media (image/audio/video). |
| 5 | Toggle Result Review | Enable or disable students' ability to review submitted answers and correct responses. |
| 6 | Manually End Test | Teachers can forcefully end an ongoing test session. |
| 7 | View Student Scores | View list of students who attempted the test along with their scores and test duration. |
| 8 | Save Results and Export Reports | System stores all results; teachers can export reports by class, test, or student. |