

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Student Kit

Quiz Portal

Objective

The aim is to develop a Quiz Portal using Spring Boot, Angular, and MySQL. It allows efficient management of quizzes, students, and exam results. The goal is to provide a seamless assessment platform with real-time performance tracking and user-friendly interfaces for both students and administrators.

Sr No.	Requirement	Essential/Desirable	Description	Remarks	
RS1	User Registration	Essential	Allow admins to add new users (students and admins) with personal and role-based details.	Includes fields like name, ID, email, password, and role.	
RS2	Quiz Creation and Management	Essential	Enable admins to create, edit, and delete quizzes, including adding questions and options.	Supports multiple question types (MCQs, true/false, etc.).	
RS3	Quiz Attempt	Essential	Allow students to attempt quizzes within a given time frame.	Tracks time and z auto-submits on timeout.	
RS5	Role-Based Access	Essential	Different dashboards and permissions for admin and student users.	Admins manage quizzes.	
RS6	Student Dashboard	Desirable	Provide a dashboard for students to view their quiz history and scores.	User-friendly interface.	

RS7	Admin Dashboard	Essential	Admin can view all quiz attempts, manage quizzes, and monitor overall portal activity.	Overview of system status
RS8	Notifications	Desirable	Notify employees about leave approval or attendance status.	Email or UI-based alerts

Requirements Specification (RS) :-

Database Fields Specification:

User Table

No.	Field Name	Range of Valid Values for the Field	Remarks
1	User_ID	Unique Identifier	Unique Identifier (Primary key, auto-generated or UUID)
2	Full_Name	Up to 50 characters	Up to 50 characters (Full name of the user)
3	Email	Valid email format	Valid email format (Used for login and notifications)
4	Role	Enum (Admin, Student) (Determines access level)	Enum (Admin, Student) (Determines access level)

Test Plan (TP) :-

Se No.	Test Case Title	Description	Expected Result	Requirem ent in RS Table	Results
1	User Registration	Test the admin process of registering a new user (student or admin).	Admin can successfully add a new user profile.	RS_1	Passed

2	Quiz Management	Test adding, editing, and deleting quizzes by admin.	Quizzes are managed correctly.	RS_2	Passed
3	Quiz Attempt	Test students attempting quizzes within the time limit.	Quiz is attempted and recorded accurately.	RS_3	Passed
4	Result Generation	Test automatic score calculation and display.	Scores are calculated correctly.	RS_4	Passed
5	Role-Based Access	Test different access levels for admin and student users.	Admin and students see only their respective dashboards.	RS_5	Passed
6	Student Dashboard	Test student dashboard for viewing quiz history and scores.	Student dashboard displays accurate information.	RS_6	Passed
7	Admin Dashboard	Test admin dashboard functionalities and controls.	Admin can view and manage all data effectively.	RS_7	Passed
8	Notifications	Test sending and receiving system alerts (e.g., quiz results).	Notifications are delivered correctly to students.	RS_8	Passed