

Java FSD with Angular: Course End Project

1. Project Details

Project Title: Online Quiz Application

Project Objective: As a Full Stack Developer, complete the features of the Online Test Application by planning the development and pushing the source code to the GitHub repository.

2. Developer Details

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Designation: Technical Trainee

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3. Project Background and Problem Statement

The Online Test Application system creates an application that enables users to provide online tests, review them, and display the results.

This system contains three main modules: Quiz, Review, and Result. The quiz section of the online test application accepts the questions in JSON format. The JSON file can be easily shared from the server in the pre-defined format. The application renders the test at the client-side.

The “Review and display result” section allows users to declare the results immediately. You can simply call another JSON with the answers in it and evaluate and display the results immediately.

The goal of the company is to deliver a high-end quality product as early as possible.

4. Sprints Planned

- **Sprint 1:** Planning & Adding Libraries
- **Sprint 2:** Creating Frontend for all Pages
- **Sprint 3:** Developing backend for application
- **Sprint 1: Planning & Adding Libraries (Duration: 2 Days):**
Understanding the requirements and functionalities of the application, Setting up the development environment (Visual Studio Code, Git, GitHub). Started developing home of the application.
- **Sprint 2: Creating Frontend for all Pages (Duration: 2 Day):**

Developing frontend for all 3 pages they are login page, quiz dashboard and report or result pages.

- **Sprint 3: Developing backend for application: (Duration: 3 Day):**

Developing all the routes or backend for pages using express framework of node and for displaying results we used Chart.js graph library.

5. Core technologies used in the project

- **Node**
- **Express**
- **EJS**
- **CSS**
- **Bootstrap**
- **JavaScript**
- **Chart.js**

6. GitHub Repository

The source code for the Online Quiz Application prototype can be found in the following GitHub repository: <https://github.com/Manoj-14/Online-Quiz-Application>

7. Conclusion

Online Quiz application project is to design and develop using Node, Express, EJS, CSS, Bootstrap, JavaScript, Chart.js and GitHub for version control. This website provides the login for user, that user need to attend all the questions and after submission the results will be displayed in the form of graph. The final product will be accompanied by a specification document that includes project and developer details, sprints planned, algorithms and flowcharts, core concepts used, and links to the GitHub repository for verification of project completion.