9530

St. MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID: 77298786020376790824163719BAA868

REG NO: 953023104121

DATE:15-09-2025

Completed the project named as

Phase 1

FRONT END TECHNOLOGY

INTERACTIVE QUIZ APP

SUBMITTED BY,

SUBBULAKSHMI M

9150566495

Phase 1 – Problem Understanding & Requirements

❖ Problem Statement :

Users need an engaging and interactive quiz platform that allows them to participate in quizzes, track scores, and receive instant feedback. The application should support multiple quiz formats (MCQs, true/false, fill-in-the-blank), provide real-time scoring, and maintain quiz history in a simple and responsive interface.

❖ Users & Stakeholders :

- ➢ End Users (students, learners, casual players)
- ➢ Educators / Trainers (who create and assign quizzes)
- ➢ Developers (frontend engineers, backend engineers, UI/UX designers)
- ➢ Project mentor/faculty

❖ User Stories

- ➢ As a user, I should be able to attempt quizzes with multiple question types.
- ➢ As a user, I should see my score and correct answers instantly after submission.
- ➢ As a user, I should view my past quiz results and performance history.
- ➢ As an educator, I should be able to create, edit, and publish quizzes.
- ➢ As a user, I should have a smooth, responsive, and fun quiz-taking experience.

❖ MVP Features

- ➢ Question display area with options (MCQs, true/false, short answers).

- Timer for quizzes (optional).

- Real-time score calculation.

- Feedback (correct/incorrect) after answering.

- Result summary at the end of the quiz.

- Basic styling for engagement and readability.

Wireframes / API Endpoint List :

❖ Wireframes:

- Quiz selection screen (list of available quizzes).

- Quiz-taking screen (question + answer options + timer).

- Result summary screen (score, correct answers, feedback).

❖ API Endpoints (future integration):

- GET /quizzes → fetch available quizzes.

- POST /submit → submit answers & get results.

- GET /results → fetch past results of a user.

- POST /quiz → create new quiz (for educators).

❖ Acceptance Criteria :

- Users can select and attempt quizzes.

- Users receive immediate feedback on answers.

- Results (score & performance summary) are displayed at the end.

- Quiz data is maintained during session.

- UI is responsive, user-friendly, and gamified for engagement.