Faculty Kit

The faculty kit contains the evaluation strategy for the different milestones of the project and any other documents/links that may aid in the evaluation process (like sample quizzes, technology references, etc.)

Evaluation Strategy/Tips for the different milestones of the project

Objective
The Quiz Portal Faculty Kit provides an evaluation strategy for assessing the progress and quality of the project at various milestones. It includes guidelines and tips for assessors along with useful resources and documents for evaluation.

Requirements Specification Key
Evaluation Points:

- Clarity and completeness of the functional and non-functional requirements.
- Validity and feasibility of assumptions made.
- Team-wide understanding of the requirements.
- Presentation and documentation quality (organized and professionally formatted).

Technology Familiarization
Mode: Team presentation + short quiz

Technologies to be covered:

- HTML, CSS, Angular (Frontend)
- Spring Boot (Backend)
- MySQL (Database)
- Vercel (Frontend Deployment, if applicable) Evaluation Criteria:
  - Clear understanding of each technology's role.
  - Ability to explain architecture and tech stack choices.
  - Quiz scores (optional) on selected topics.

Database Creation
Evaluation Parameters:

- Normalized, clear schema with well-defined primary/foreign keys.
- Proper use of datatypes and constraints.
- Avoidance of redundancy.
- Inclusion of backup/recovery strategies and indexing where necessary.
- Documentation of relationships (one-to-many, many-to-many).

High-Level and Detailed Design Evaluation Points:

- Completeness in covering all requirement specifications.
- Availability of component breakdowns and responsibilities.
- Clarity of flowcharts, wireframes, or pseudocode for core modules.
- Alternatives or scalability considerations discussed.
- Error handling and fail-scenario designs (e.g., DB connection failure).

Front-end implementation

Demo Requirement: Partial working front-end without backend integration **Evaluation**

Criteria:

- Clean and user-friendly UI using Angular.
- Proper layout and accessibility practices.
- Responsiveness across devices.
- Intuitive navigation and meaningful content hierarchy.
- Presence of tooltips, modals, and basic validations (Angular Forms).

Integrating the front-end with the database Evaluation Points:

- CRUD operations on quizzes, questions, and results functioning correctly.
- Real-time updates reflecting in the MySQL database. Robustness: no app crashes, correct error messages on failure.
- Demonstration of:
  - o Login/logout session handling.
  - o Quiz creation, editing, and deletion.
  - o Result calculation and viewing for students and admins.
- Deployment demo on Vercel (frontend) and MySQL (DB).

Test-plan review Evaluation Criteria:

- Coverage of all functional requirements.
- Descriptions of how to execute each test case.
- Inclusion of negative test cases (e.g., SQL injection attempts, invalid input).

- Exception testing (e.g., DB disconnection, deployment issues)
- Use of tools like Postman for API testing is a plus.

Final review
Deliverables:

- Final working project (deployed).
- Project Report.
- All documentation from prior stages.

Evaluation Points:

- Completeness and functionality of the Quiz Portal.
- Smooth demo across modules (login, quiz management, result viewing).
- Quality of code (structure, readability, comments).
- Project Report includes architecture, challenges, screenshots, future scope.
- Deployment links and accessibility

Documents/References that may aid the process of evaluation
- **Angular**: https://angular.io/docs
- **Spring Boot**: https://spring.io/projects/spring-boot
- **MySQL**: https://dev.mysql.com/doc/