



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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 on technologies etc)

Evaluation Strategy/Tips for the different milestones of the project

Objective

This kit provides an evaluation strategy for the key milestones of the **Web-Based School Administration System** project. It is meant to guide faculty assessors in checking the progress, quality, and completeness of student projects through presentations, demonstrations, and documentation at various stages of development.

Requirements Specification

Some key points that need to be evaluated on the Requirements Specification document are:

- Clarity of functional and non-functional requirements.
- Accuracy of assumptions (e.g., user roles, access permissions).
- Student understanding of each module like attendance, grading, messaging, etc.
- Quality of written document and oral presentation.

Technology Familiarization

- Student presentation on technologies (Node.js, React, MongoDB, Express, etc.).
- Understanding of their use in school management context.
- Optionally conduct a quiz to validate foundational knowledge.

Database Creation

A small write-up on the database, giving the fields specifications etc. This write-up can be evaluated on the following points.

- ER diagrams or database schema showing users, attendance, grades, messages, etc.
- Primary/foreign keys clearly defined.



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- Redundancy checks, normalization.
- Consideration for backup and recovery.

High-Level and Detailed Design

A presentation on the design followed by a viva on the same or the submission of the design document can be used for evaluating this milestone. Some points to look for in the design are:

- Design document or presentation covering all modules.
- Flowcharts, pseudocode, or architecture diagrams.
- Coverage of all requirements from RS.
- Handling of exceptions (e.g., failed login, server crash).
- Use of reusable components and modular structure.

Front-end implementation

A demo of the front-end can be given by the team for evaluation. Features like mail notification, actual updation of the database etc come in the next stage. This stage is for the front-end only.

Evaluation can be based on parameters like,

- UI demonstration of student, teacher, and admin views.
- Responsive design compatibility with mobile and desktop.
- Ease of navigation, visual design quality.
- Error message clarity and guidance/help texts.

Integrating the front-end with the database

A full demo showing all the features of the system should be given at this stage. The stability and robustness of the application should be evaluated at this stage.

Some points to look for at this stage are,

- Full working demo including login, attendance marking, grade management, messaging.
- Stability (no crashing/hanging).
- Team ability to create/update/delete records live.
- Live validation of new student creation and data updates.



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Test-plan review

The test-plan document will be reviewed for its completeness/correctness and clarity. Some points to look for are,

- Coverage of all functional requirements.
- Well-defined test cases (positive, negative, edge).
- Inclusion of exception tests (e.g., missing data, downtime).
- Evidence of iterative testing and updates.

Final review

- Final demo with all features working.
- Project report including screenshots, test logs, and reflections.
- Submission of all intermediate documents (RS, design, test plan).
- Discussion of future scope and enhancements.

Documents/References that may aid the process of evaluation

- w3schools.com – For HTML/CSS/JS/React basics
- nodejs.org – Backend knowledge
- MongoDB Documentation – docs.mongodb.com