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 Faculty Kit provides guidelines for the assessment of the **E-Post Office Web Application** project at various milestones. It aims to ensure a comprehensive evaluation of the project's progress, functionality, and overall quality.

Requirements Specification

Evaluation Criteria:
- **Clarity:** Assess the readability and precision of the specification document.
- **Validity:** Verify the assumptions made and their relevance to the project scope.
- **Understanding:** Ensure all team members can articulate the requirements and their implications.
- **Presentation Quality:** Evaluate the effectiveness of the document presentation.

Technology Familiarization

Evaluation Approach:
- **Team Presentation:** Evaluate the team's understanding of the technologies (React.js, Node.js, MongoDB) through a detailed presentation.
- **Quiz:** Conduct a quiz covering key concepts and functionalities of the technologies used to gauge comprehension.

Database Creation

Write-up Review:
- **Clarity and Conciseness:** Assess the database design for clarity, including the definition of keys and absence of redundant fields.
- **Data Storage Calculations:** Review any calculations made regarding data storage requirements.
- **Backup and Recovery Mechanisms:** Evaluate discussions on data backup and recovery strategies.

High-Level and Detailed Design

Evaluation Methods:

- **Presentation or Viva:** Assess the design through a presentation or viva examination.
- **Key Evaluation Points:**
  - Coverage of requirements as specified in the RS document.
  - Detail and comprehensiveness of pseudocode or flowcharts.
  - Discussion of alternative designs.
  - Precision of error messages and notifications.
  - Robustness of the design in handling potential failures (e.g., database outages).

Front-end implementation

- **Demo Evaluation:**
  - **User Interface:** Assess the aesthetics and usability of the user interface.
  - **Help Functionality:** Evaluate the quality and accessibility of help resources.
  - **Intuitive Design:** Measure how easily users can navigate without extensive assistance.
  - **Error Messaging:** Review clarity and helpfulness of error messages provided during operations.

Integrating the front-end with the database

Full Demo Evaluation:
- **Stability:** Ensure the demo runs smoothly without crashes or hanging.
- **Feature Demonstration:** Confirm all major features function as intended.
- **User Operations:** Verify the team can create, use, and delete user accounts effectively.

Test-plan review

Document Evaluation:
- **Coverage:** Ensure all RS requirements are addressed in test cases.
- **Execution Clarity:** Assess the clarity of test execution instructions.
- **Error Scenario Testing:** Review tests for handling invalid inputs and exceptional scenarios.

Final review

- **Final Evaluation:**
  - **Demo and Project Report:** Review the final presentation and report for completeness and coherence.
  - **Intermediate Submissions:** Consider the quality of interim documents and presentations as part of the final evaluation.

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Documents/References that may aid the process of evaluation

1. **W3Schools ASP Quiz:** ASP Quiz
2. **SQL Server Performance Resources:** SQL Server Articles and Quizzes