



**Swami Keshvanand Institute of Technology, Management
& Gramothan, Ramnagar, Jagatpura, Jaipur-302017, INDIA**

Approved by AICTE, Ministry of HRD, Government of India

Recognized by UGC under Section 2(f) of the UGC Act, 1956

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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)

1. Requirements Specification Evaluation

Objective: Ensure students understand and clearly define the system requirements for each project component.

- **Clarity:** Check if the requirements for text summarization, code analysis, and cloud infrastructure are clearly stated.
- **Feasibility:** Are the assumptions valid, and are they justifiable in the context of the project?
- **Team Understanding:** Each team member (text summarization, code analysis, and cloud integration) should fully understand their assigned tasks.
- **Presentation Quality:** Evaluate how well the team presents the system's core requirements and objectives.

2. Technology Familiarization

Objective: Assess the students' grasp of the technologies they will use (NLP models for summarization, static analysis tools, cloud platforms).

- **Presentation:** Each member presents the technologies related to their responsibility (e.g., NLP models, code analysis tools, cloud services like AWS).



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- **Quiz:** Faculty can test the team's knowledge on these tools and technologies via a quiz, covering areas like machine learning models, software testing tools, and cloud deployment services.

3. Database Design Evaluation

Objective: Evaluate the database that supports text summaries and code analysis reports.

- **Clarity & Redundancy:** Ensure that database fields for storing summaries and code analysis results are well-defined, and check for redundancy.
- **Backup & Recovery:** Verify if students have implemented or planned a backup and recovery system for data.

4. High-Level and Detailed Design Evaluation

Objective: Assess the design documents and presentations for each module.

- **Requirements Coverage:** Check if the design covers all specified requirements (e.g., cloud integration for scalability, NLP model integration, static code analysis).
- **Pseudocode & Flowcharts:** Evaluate the provided pseudocode or flowcharts for detail and correctness (e.g., for text summarization, code analysis, and cloud deployment).
- **Error Handling & Alternatives:** The design should anticipate potential errors (e.g., database issues during code analysis or cloud downtime) and propose alternative solutions.

5. Front-End Implementation

Objective: Evaluate the user interface (UI) created for interacting with the text summarization and code analysis modules.



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- **UI/UX:** Is the interface intuitive and easy to navigate? Assess the balance between functionality and aesthetics.
- **Error Handling:** Does the UI provide meaningful error messages for incorrect inputs (e.g., invalid code submissions)?
- **Help Documentation:** Check if the help screens match the actual UI and are easy to understand for users.

6. Integration of Front-End with Database and Cloud

Objective: Test how well the front-end integrates with the backend and cloud infrastructure.

- **Full Demo:** The students should demonstrate the system, showing seamless interaction between the frontend (UI) and backend (databases and cloud services).
- **Stability & Robustness:** Assess the stability of the application when executing core functionalities, such as document summarization and code analysis.
- **Major Feature Demonstration:** Ensure that all significant features (e.g., new user creation, document upload, analysis) work smoothly without system crashes or performance issues.

7. Test-Plan Review

Objective: Ensure that the system is tested for all edge cases and that the test plan covers all requirements.

- **Coverage:** Evaluate if the test cases cover all key functionalities mentioned in the *Student Kit* (text summarization, code analysis, and cloud deployment).



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- **Clarity & Completeness:** Ensure that the test cases are clearly written, with descriptions of how to execute them, and cover both normal and error scenarios (e.g., invalid inputs, cloud service downtime).
- **Exception Handling:** Verify if the system can handle unexpected scenarios like failed cloud connections or system errors.

8. Final Demo & Review

Objective: The final stage involves evaluating the overall functionality and performance of the system.

- **Demo:** The team should perform a final demo of the system, covering text summarization, code analysis, and cloud deployment.
- **Report:** Evaluate the final project report to ensure it documents the entire project lifecycle, including design decisions, technologies used, and challenges faced.
- **Intermediate Submissions:** Consider presentations, code samples, and write-ups submitted throughout the project as part of the final evaluation.

Additional Documents & References:

- **ASP Quiz:** Faculty may use quizzes from resources like [w3schools](http://w3schools.com) to evaluate familiarity with web technologies if relevant.
- **SQL Server Performance Articles:** Include additional reading or quizzes related to database optimization, available on websites like sql-server-performance.com.

9. Project Evaluation Rubrics:

Category	Sub-Category/Factors	Marks	Criteria for Marks Allocation
1. Requirements Specification	Clarity of Requirements	5	Clear, concise, and feasible requirements



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			earn full marks. Partial clarity loses marks.
	Validity of Assumptions	5	Well-justified and realistic assumptions score higher.
	Understanding by Team Members	5	All members demonstrate equal understanding of the project.
	Presentation Quality	5	Effective and professional presentation, clear slides, structured delivery.
2. Technology Familiarization	Knowledge of Technologies	5	All members must demonstrate understanding of chosen tools (NLP models, cloud, etc.).
	Presentation of Technology	5	Clear and informative presentations on each technology component.
	Quiz on Technology	5	Accurate answers in the technology quiz reflecting deep understanding.
3. Database Design	Clarity of Database Fields	5	All fields well-defined, with no redundancies.
	Backup and Recovery Plan	5	A strong plan for data backup and recovery implemented.
	Efficiency of Design	5	Efficient data storage and database structure without unnecessary complexity.
4. High-Level and Detailed Design	Requirement Coverage	5	Design covers all requirements from the specification document.



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	Pseudocode/Flowcharts Details	5	Detailed and understandable pseudocode/flowcharts that match the implementation.
	Error Handling and Alternatives	5	Robust handling of edge cases and alternative designs considered.
5. Front-End Implementation	UI Design (Look and Feel)	5	Intuitive, visually appealing UI design that enhances usability.
	Error Messaging	5	Clear and meaningful error messages throughout the system.
	User Help Documentation	5	User guides/help documentation are clear, concise, and match implementation.
6. Integration with Backend	Seamless Front-End to Back-End Integration	5	Proper interaction between the UI, databases, and cloud deployment without issues.
	Stability of Application	5	System runs without crashing, shows stability during demonstration.
	Feature Completion	5	Major features (text summarization, code analysis, etc.) are fully functional.
7. Test Plan Review	Test Case Completeness	5	All major requirements are covered in test cases.
	Execution of Test Cases	5	Clear and correct execution of test cases during the evaluation.
	Handling of Exceptions and Errors	5	Exception scenarios are fully tested and handled gracefully.



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8. Final Demo & Project Report	Final Demo Quality	5	Comprehensive demo covering all features with clarity and professionalism.
	Final Project Report	5	Well-documented project report, detailing the entire process from design to implementation.
	Intermediate Submissions	5	Consistent quality in all intermediate presentations and submissions.

(Signature):

Faculty Name: Praveen Kumar Yadav