Group 1

COURSE ASSESSMENT MANAGEMENT SYSTEM (CAMS)

PRESENTED BY

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Agenda

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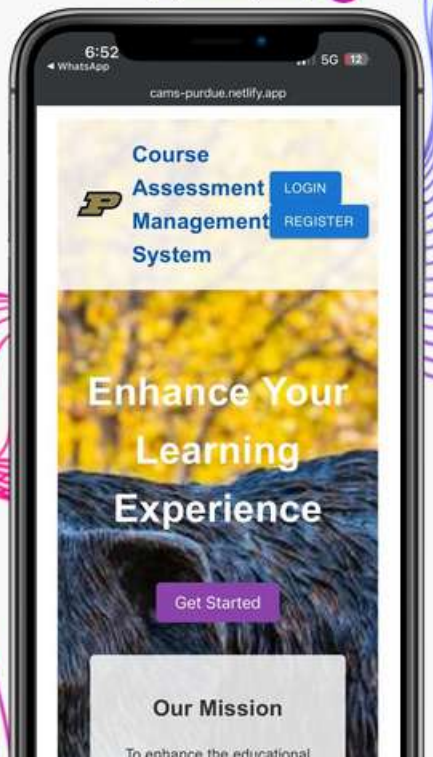
Project Proposal

The Course Assessment Management System (CAMS) is a web-based platform designed to streamline the process of managing course assessments within educational institutions. CAMS aims to provide instructors and administrators with a centralized tool to efficiently collect, analyze, and report assessment data, ultimately enhancing the quality of education delivery.



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Project Requirements

Functional Requirements

USER AUTHENTICATION:
Users can securely log in and reset passwords if forgotten.

DASHBOARD:
Instructors and admin access personalized dashboards.

DATA ENTRY:
Instructors easily input assessment data or upload bulk data from files.

COLLABORATION FEATURES:
Communication channels enable collaboration between instructors and admins.

Non Functional Requirements

PERFORMANCE:
System responds quickly even during peak usage.

USABILITY:
Interface is intuitive for easy adoption.

RELIABILITY:
System operates consistently without errors or data loss.

SECURITY:
Robust measures protect sensitive data from breaches.

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Technical Requirements

BACKEND FRAMEWORK:

NODE.JS

DATABSE MANAGEMENT:

MONGO DB

FRONTEND FRAMEWORK:

REACT.JS

TESTING:

CYPRESS

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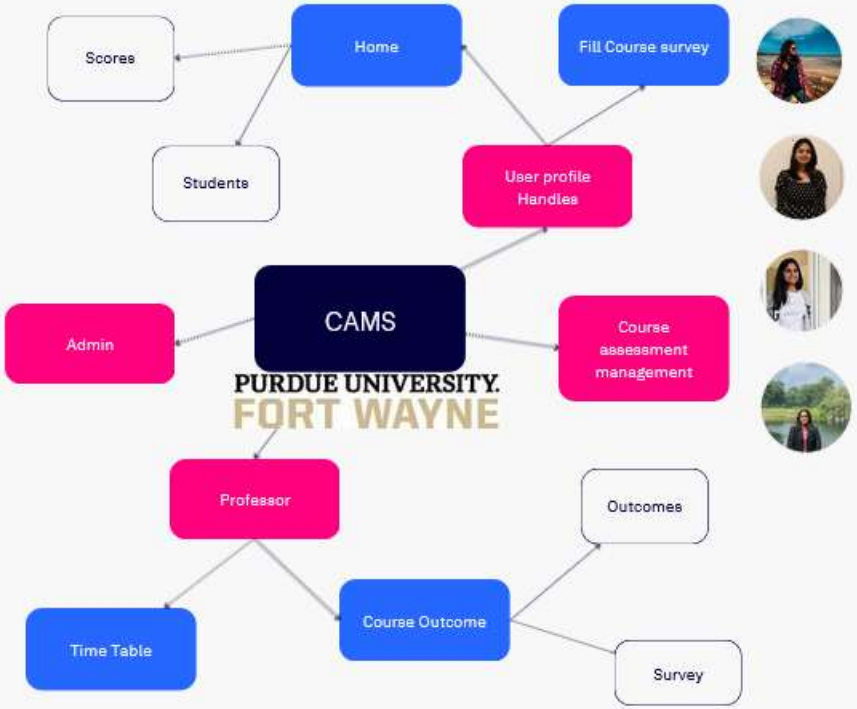
Team Policies

- The project work tasks will be divided equally among the members.
- The issues encountered within the project will be first discussed among the members, and if the solution is not achieved then The members will approach the professor.
- The members will conduct timely meetings to verify the progress made on each behalf.
- Sprint Planning is conducted collaboratively using Jira, defining tasks for the upcoming sprint.
- At the end of the sprint, a review is conducted to assess completed work and plan for the next sprint.
- Conducted regular meetings via Teams for discussions, updates, and brainstorming sessions.



Risks vs Solutions

Security Risks:

Risk: Sensitive student data vulnerability.

Solution: Robust security measures (encryption, role-based access, audits).

Integration Challenges:

Risk: Complex integration with existing systems.

Solution: Thorough compatibility assessments, standardized protocols, involvement of IT professionals.

User Adoption:

Risk: Resistance due to complexity or perceived burden.

Solution: Prioritize user experience, conduct training sessions, gather feedback, provide ongoing support.

Data Integrity:

Risk: Errors compromising report reliability.

Solution: Data validation checks, version control, data quality assurance procedures.

Scalability Issues:

Risk: Performance degradation with increased data.

Solution: Scalability design, cloud-based infrastructure, performance assessments.

Lack of Stakeholder Engagement:

Risk: Failure to address stakeholder needs.

Solution: Early stakeholder involvement, regular meetings, clear communication of benefits and goals.

Project Learning Outcomes:

1	Technical Skills: Gained proficiency in Node.js, MongoDB, React.js, and Cypress while building CAMS.
2	Project Management: Developed our skills in task coordination, timeline management, and resource allocation.
3	Collaboration: Enhanced teamwork, communication, and conflict resolution abilities.
4	Problem-Solving: Learned to troubleshoot technical challenges and adapt to evolving requirements.
5	Quality Assurance: Focused on meeting nonfunctional requirements and ensuring regulatory compliance.
6	User-Centric Design: Prioritized intuitive and efficient user interfaces for CAMS.

Demo

CAMS

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THANK YOU

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