

Project Management System: Background Study

The ecosystem of digital solutions aimed at addressing the inefficiencies in academic management is already mature enough to justify their widespread adoption among colleges and universities around the globe. The extent of their integration with existing IT infrastructure vary significantly from one institution to another. For instance, some institutions use standard tools like Learning Management Systems for basic communication and deliverable handling. Others, however, adopt centralized full-fledged platforms to manage the entire supervision process from smart meeting scheduling to document management with progress tracking. The following are five such solutions, derived from both commercial software and academic research.

Existing Solutions	Features	Limitations
<i>A Web Based Final Year Project Supervision System (Beekhy, 2013)</i>	<ul style="list-style-type: none">- Appointment scheduling system which uses the supervisor's calendar as a basis for scheduling meetings.- Document management system where supervisors can set tasks for deliverable submissions/re-submissions and track document changes.- Progress tracker with Gantt chart visualization to provide a complete picture of project's progress.	<ul style="list-style-type: none">- Lack of AI-powered feedback compliance checking- Inability to send notifications to external services such as email or push notifications for important reminders
<i>Creatrix Campus (Creatrix Campus, 2025:-b, Creatrix Campus, 2025:-c)</i>	<ul style="list-style-type: none">- Centralized document repository for change tracking and version control.- Customizable review and approval workflows to streamline dissertation management (Low-code configurations).- Reporting analytics for evaluating dissertation and thesis milestones for both students and supervisors.	<ul style="list-style-type: none">- No out-of-the-box solution for automated feedback checking; training is required for developers to implement and maintain custom review and approval workflows.- Enterprise-level pricing may present a significant financial barrier.

	<ul style="list-style-type: none"> - Meeting management software includes meeting scheduling with conflict avoidance and attendance tracking. 	
Moodle as a Final Year Project Management System <i>(Khamaruddin et al., 2018)</i>	<ul style="list-style-type: none"> - The system re-purposes Moodle's forum activity module to provide reminders with email notifications for important tasks and deadlines. - Assignment activity module in Moodle allows supervisors to set assignments where students can submit drafts and final documents. - Progress updates are tracked via the system's course administration module. 	<ul style="list-style-type: none"> - Assignment activity module does not provide change tracking between submissions. - The system lacks a meeting planning and automatic feedback checking system.
Final Year Project Management System for Information Technology Programmes <i>(Leung et al., 2018)</i>	<ul style="list-style-type: none"> - The system has a File Sharing and Repository module to centralize document and code submissions. - Project Management module provides students with a shared workspace and a scheduler for them to create tasks and set deadlines. - Basic progress tracking feature for each student. 	<ul style="list-style-type: none"> - The system lacks a meeting scheduling and automatic feedback checking system. - Lack of a sophisticated version control system for managing documents and code. - Group-based submission may obscure work accountability for individual students.
Google Workspace for Education <i>(Google, 2025)</i>	<ul style="list-style-type: none"> - Google Classroom acts as the core of the system where supervisors can make classes for project students and create assignments with deadlines. - Google Classroom integrates seamlessly with Google Calendar, which can be used as a basis for meeting scheduling. - Google Docs allows keeping track of different document versions for version control and overall 	<ul style="list-style-type: none"> - Lack of customization flexibility to incorporate an AI solution for feedback compliance checking. - Inadequate progress tracking capabilities to provide an overview of project's progress.

	<p>change tracking using “Suggest” mode.</p> <ul style="list-style-type: none">- Google Docs integrate with Google Assignment for feedback submission.	
<p><i>Web-Based Final Year Project Supervision Management System (FYPSMS) (Adeniyi et al., 2024)</i></p>	<ul style="list-style-type: none">- Student home page for uploading project work documents and viewing progress.- Supervisor dashboard to view progress for multiple students and project inspection page for viewing, downloading documents & providing feedback.	<ul style="list-style-type: none">- The system lacks a dedicated meeting scheduling system and automatic feedback checking.- There is no feature to track changes between document submissions.

Solutions	Meeting Scheduling & Reminder Notification System	Deliverable Submission/Re-Submission with Change Tracking	Automatic Feedback Compliance Checking	Progress Tracking (progress log or visual)	Specific Features
<i>A Web Based FYP Supervision System</i>	✓	✓	✗	✓	<ul style="list-style-type: none"> - Meeting scheduling on the basis of supervisor calendar. - Gantt Chart visualization for progress tracking
Creatrix Campus	✓	✓	?	✓	<ul style="list-style-type: none"> - Low code platform to create review and approval workflows for deliverables. - Meeting Attendance tracking
Moodle as a FYP Management System	✓	✗	✗	✓	<ul style="list-style-type: none"> - Re-purposing existing open-source Moodle modules to provide specific features
FYP Management System for IT Programmes	✗	✗	✗	✗	<ul style="list-style-type: none"> - Architecture for streamlining group-based project supervision
Google Workspace for Education	✓	✓	✗	✗	<ul style="list-style-type: none"> - Document versioning for visible change tracking - Prevent document editing/re-submission during feedback
<i>Web-Based FYPSMS</i>	✗	✗	✗	✓	<ul style="list-style-type: none"> - Dedicated dashboards for system administrators and external examiners