

# Student Project Tracking

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**Abstract:** Student Project Tracking System is an internet-based system that will enhance school academic project management. The system offers a neat and efficient workflow for student, faculty advisor, and administrator collaboration. Students are able to register a project with ease, assign team members, submit reports, and track progress on a simple-to-use and easy interface, while faculty members are able to track project updates, schedule review dates, and provide feedback. One of the key functionalities of the system is role-based access control to grant only the user such as Admin, In-charge, Guide, Students, and Head of Department (HOD) for attaining specific privileges based on his/her role. It facilitates transparent, accountable, and real-time project monitoring. With that, the system automated the submission of documents and final report generation to eliminate administrative work and improve organizational productivity. By avoiding the conventional manual approach to tracing, the system avoids mistakes and allows the simplification of the entire project management process.

**Keywords:** Student Project Tracking System, Academic Project Management, Web- Based Application, Role-Based Access Control, Real-Time Project Monitoring, Document Submission, Faculty Collaboration, Workflow Automation, Educational Institution, Digital Project Management.

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## I. INTRODUCTION

Student project management is a key part of schools as it ensures efficient project delivery from the start to completion. Manual handling and a lot of paperwork are needed in conventional tracking of projects, and this tends to cause inefficiencies and communication breakdowns. The demand for a systematic, computerized system has become unavoidable to enhance project advancement, openness, and collaboration among students, lecturers, and examiners.

The "Student Project Tracking" system therefore comes with the intent of overcoming such challenges in the form of an overarching online system. By automatizing submitting, reviewing, rating, and ultimately approving the projects in line with institution protocols, a system facilitates the process of executing the projects in the institutions to the extent of optimizing the same. The significance of the Student Project Tracking System is that it will revolutionize student project management by making different processes easier. It will automate the process of submission, assessment, and feedback, hence conserving time and resources. It also ensures academic integrity as it offers an organized tracking system that guarantees fair assessments, plagiarism detection, and originality. By giving students timely feedback and structured input, the system encourages student engagement and makes them more accountable for their projects. Secondly, it assists in institutional research by keeping earlier projects on record for academic use, further studies, and best practice benchmarking.

As institutions grow, the system facilitates scalable growth with seamless handling of growing numbers of projects without sacrificing efficiency. It also facilitates decision-making by allowing administrators to discover trends in project performance and apply data-driven improvement in academic policy. Finally, the system also encourages interdepartmental collaboration whereby staff of different disciplines provide concepts and inputs and encourage cross-disciplinary projects.

## II. EXISTING WORK

The current student project management system is generally informal and decentralized, based on conventional paperwork, email, spreadsheets, and word-of-mouth. Under this system, students usually fax or email their hard copies of project proposals, and these are formally cleared and processed by faculty staff. Project monitoring is done through sporadic project updates submitted through unofficial channels such as word-of-mouth communications, emailed reports, or hard-copy submissions. This disperse work pattern is ineffective, causes miscommunication, and lack of real-time monitoring. Lack of Centralization and Automation One of the major drawbacks of the current system is that it is not automated for project-related activities.

Every process, right from entering the project name to final assessment, is manual, and hence there are higher possibilities of errors, delays, and inconsistencies in data. There is no central database also to store and maintain project-related documents, and hence it is hard to keep historical data, retrieve old projects, and have a smooth flow. Lacking a well-structured database, students have to depend on numerous sources (hand-written files, word of mouth, or instructors' email) to monitor their progress on the project. The instructors are also at a disadvantage with well-organized records, and they end up providing poor timely feedback and effective progress monitoring.

### DISADVANTAGES:

**Ineffective Real-Time Monitoring** – Without a centralized tracking system, delays and poorly informed students.

**Unreliable Project Assessment** – Manual marking is inconsistent, and there are inconsistencies in the marking and delayed feedback.

**Higher Administrative Burden** – Overloading the workload of the faculty members to monitor and punish the projects manually.

**Risk of Data Loss** – Personal or manual storage of project information has a highly probable risk of data loss.

**Scalability Issues** – The system is not capable to deal with increasing and increasing students and projects effectively.

**Lapses in Transparency and Accountability** – As there is no coordinated system, it is not simple to monitor deadlines and accountability.

## III. PROPOSED WORK

Student Project Tracking System is an on-line system to correct the inefficiency of the existing manual system. Automation, online monitoring, centralized database, and step-by-step workflow with instruction, the system improves project tracking, communication, and transparency between administrators, faculty members, and students. The system automates small procedures like title approval, progress report, and final evaluation procedure, decreasing manpower load and defects. Remind and notification will remind teachers and students of review schedule and project deadline. Role-based access control where each user has roles such as Admin, In-Charge, Guide, and Student with different levels of access.

For the sake of effective project management, the system has a document repository where project documents are stored in a way that lecturers and students can safely store project documents, classify them, and retrieve them. This is more economical than losing or receiving misplaced documents and keeping storages clean. The system is also offering the default grading and feedback system so that the instructors grade the projects according to pre-defined criteria in a manner that there is consistency in grades as well as feedback.

### ADVANTAGES:

**Automation** – Disconnects the human element, eliminating errors and maximizing the productivity of the project management.

**Real-Time Tracking** – Enables real-time monitoring of projects and establishment of issues and delays in real time.

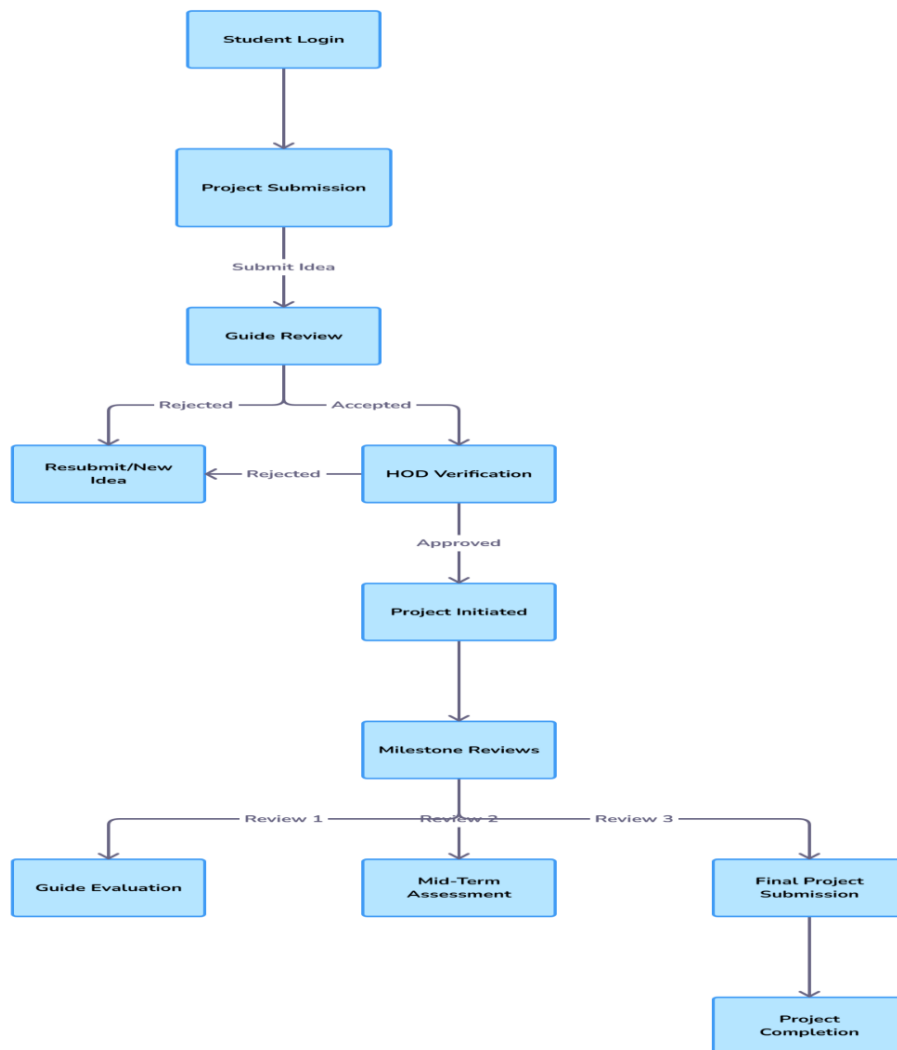
**Repository Centre** – Keeps all the project documents secure in one place in one platform for effortless access.

**Transparency** – Gives all the stakeholders complete visibility of the feedback, project status, and deadline.

**Scalability** – Can handle large amounts of projects and students with future scalability.

**Security & Data Integrity** – Using access controls and authentication to protect sensitive project data.

**DESIGN:**



**Figure:3.1 Work Flow**

Student Project Tracking System is intended to accept correct and well-formatted input easily and safely. The system must allow input from various user roles such as students, faculty members, guides, and administrators with certain entry criteria for data. Students enter project-related information like project title, description, team members, and upload documents and reports. Text boxes, dropdown form fields, and file upload enable it to be simple to go through a systematic and error-free process of data entry. Data integrity is provided with features like required fields, format check, and character limit. Instructors and mentors post feedback, grades, and approval status of project submissions. There are conventional processes that entail too much documentation, miscommunication, and inefficiencies that hinder the free execution of student projects. The system grants role-based access controls to prevent unauthorized users from making some information changes, thereby averting undue changes. Admins input and manage user information, assign instructors to students, and monitor the status of projects. Their interface has user registration forms, data change forms, and report generation forms.

## IV. EXPERIMENTAL

Use of Student Project Tracking System has risen increased higher study and communication among institutions for managing the students' projects at a faster rate. As research work and higher study are getting complex in nature, on-time tracking is required in order to maintain efficient management of the students' projects. Because of the advancements in technology, schools are adopting internet-based solutions in an effort to improve working processes as well as collaborative working between faculty members and students.

### Module Actions

**Administrator Actions:** Administrator grants access to users, registers staff (In-Charge, Guides, HODs), controls project monitoring, and keeps the system smooth.

**In-Charge Actions:** In-Charges log in, track assigned teams and projects, track project status, schedule for review, and status update.

**Guide Actions:** Guides authenticate access, assign teams, track student attendance, update project status, give feedback, and conduct project reviews.

**HOD Actions:** Department Head logs in, tracks all department projects, maintains pace with progress, and enforces academic compliance.

**Student Actions:** Students log in, enter project details, request title approval from guides, view project titles within their department, and track updates.

### Admin Module

The Admin Module has control over the entire system, providing smooth operation and access control. The admin logs into the system with proper credentials and has access to different administrative functionalities. The admin can add and register primary faculty members such as In-Charges, Guides, and HODs in order to handle projects. The admin can also track and manage staff information, and all user roles need to be properly allocated accordingly. After all the required steps are performed, the administrator can log out safely, ensuring system security and integrity.

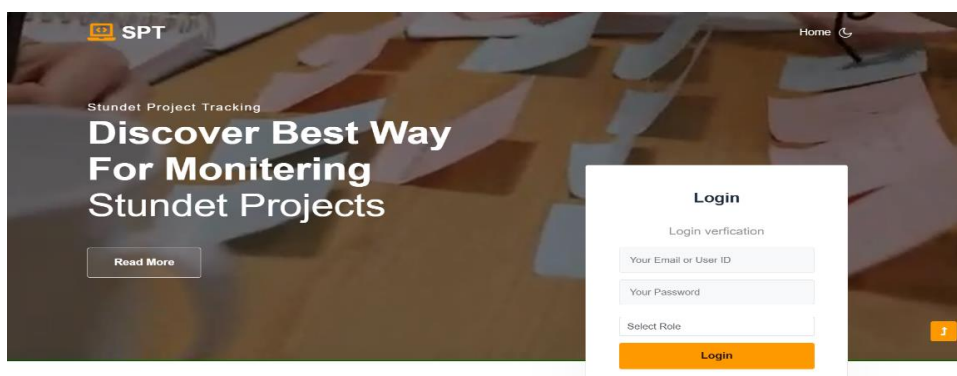
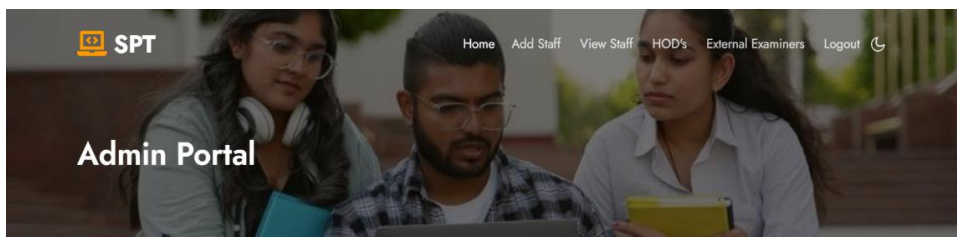


Figure:4.1 Home page



Welcome Admin

Figure:4.2 Admin module Homepage

They can register and add major faculty members, such as In-Charges, Guides, and HODs, to help with project management.



### Add InCharge

Name:

Email:

Password:

Phone:

Department:

Section:

Designation:

### Add Guide

Name:

Email:

Phone:

Password:

Department:

Designation:

Figure:4.3 Add staff

### Guide Module

The Guide Module is specifically for faculty members who guide student project teams. After login, they add teams assigned to them.

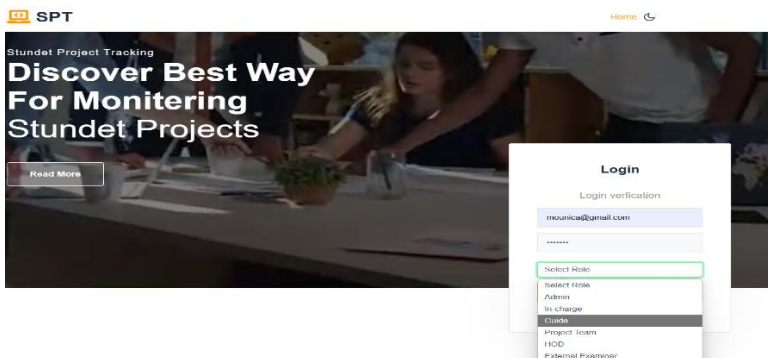


Figure:4.4 Guide Login

### Add Team

**Team ID**

**Password:**

**Department:**

**Section**

**InCharge:**

**Figure:4.5 Add Team**

### Add Student to ag10 Team

**Team ID**

**Name**

**Hall Ticket**

**Email**

**Phone**

Team ID	Section	Department			
ag10	A	CSE	View Students	Attendance	Add Students

**Figure:4.6 Add Students**

They also maintain student attendance records, monitor project progress, and give required status updates. This module allows guides to provide formal reviews and feedback to assist students in fine-tuning their projects. Once they have finished their assigned tasks, guides can log out of the system securely.

SPT
Home Teams Projects Logout

### New Project Requests

#	Title	Team Id	Submission Date	Status	
1	Project Tracking	ag10	March 13, 2025	New Registration	<input type="button" value="Selected"/> <input type="button" value="Rejected"/>

**Abstract**  
 The Student Project Tracking is a comprehensive web-based platform designed to facilitate the management and tracking of student projects from title approval to final submission.

**Description**  
 The application caters to various user types, including Admin, In-charge, Guide, Student each with distinct functionalities and access levels.

**Figure:4.7 Title Approval**

Figure:4.8 Add Review details

Date	Status
2025-01-06	All attended.

#	Team ID	Section	Department	View Students	Attendance	Add Students
1	ag10	A	CSE			

Figure:4.9 Add Students Attendance

### Student Module

The Student Module is intended to enable students to actively engage in the project tracking system. Once logged in, students are allowed to submit the project details such as title requests to their designated guide for permission. They also get to access all the names of projects conducted in their department, allowing them to remain up-to-date regarding current academic research. This module allows students to efficiently monitor project status while engaging in effective interaction with lecturers. Once completed with their work, students get to log out of the system securely.

### Login

Figure:4.10 Team Login



The screenshot shows the 'Team Portal' interface. At the top, there are navigation links: Home, Profile, Project Details, Project Database, and Logout. Below the navigation is a header with 'Team ID: ag1Q', 'Guide: Mounica', and 'Incharge: Dr.penchaliah'. The main section is titled 'Your Team' and contains a table with the following data:

#	Name	Hall Ticket	Email	Phone
1	N. SRILAKSHMI	21711A0543	siri030602@gmail.com	9704870409
2	B. SUREKHA	21711A0505	surekha@gmail.com	9562781975
3	D. VYSHNAVI	21711A0515	vyshnavi@gmail.com	9562781976
4	K. REYNU SRINIDHI	21711A0531	reynu@gmail.com	9674537893
5	K. ABHINAYA	21711A0526	abhinaya@gmail.com	6734526782

Figure:4.11 Team profile

The screenshot shows the 'Submit Project details' form. It includes the following fields and content:

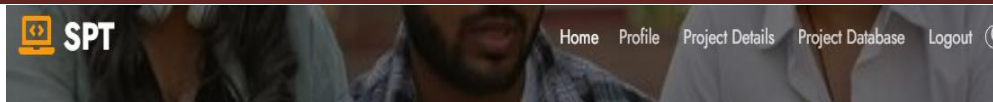
- Project Title:** Student Project Tracking
- Abstract:** met. The final comprehensive report, accessible only to In-charge users, provides a detailed overview of project details, statuses, and marks. By digitizing and streamlining the entire project lifecycle, from initial to final submission, this
- Description:** The Student Project Tracking is a comprehensive web-based platform designed to facilitate the management and tracking of student projects from title approval to final submission.
- Submit:** A green button to submit the project details.

Figure:4.12 uploading Project Details

The screenshot shows the 'Team Portal' interface with a confirmation message: 'Project details forwarded to your guide !!' circled in red. The navigation links and team information are visible in the background.

Figure:4.13 Submit Project Details





### Project Details

#	Team	Title	Submission Date	Status
1	bg7	PRANA - LIFE SAVING COMMUNITY	March 13, 2025	Accepted
2	ag9	LAB EVALUATION MANAGEMENT SYSTEM	March 13, 2025	Pending

Figure:4.14 All Projects



### Submit Review Details

Team ID: ag10	Review Name: External Review
Comments: <input type="text"/>	Given By: External: Dr. Rajasekhar
Marks: 93	<input type="button" value="Submit"/>

Figure: 4.15 External Review Details

### Review Details

Manuscript Not Submitted

#	Review	Comments	Marks	Given By	Date
1	1	Good.	89	Dr. Rajendra	March 13, 2025
2	2	Modify the guide module.	90	Dr. Sunil Kumar	March 13, 2025
3	External Review		93	External: Dr. Rajasekhar	March 13, 2025

Figure: 4.16 All Reviews

## V. CONCLUSION

Student Project Tracking System is a new system intended to simplify project management and make it more efficient in an academic setting. The system provides a structured and systematic method of tracking student projects from initiation to completion to ensure that students, guides, in-charges, HODs, and administrators are aware of project progress, status, and reviews. By role-based access and secure login, the system provides each user with access to functions according to their role for transparency and accountability throughout the entire project life cycle. One of the advantages of this system is that it has a project management system based on centralization wherein the students can upload project ideas, tag status, and retrieve

reviews easily. The faculty members as student mentors are able to access project information, provide feedback, and receive updates on status so that the students get the appropriate care and direction in the process of study. The HOD and the in-charges are supervisory, managing more than one project, for the purpose of adhering to institutional standards and guidelines. The administrator controls user access, addition of new guides or in-charges, system security and functionality. The hierarchical configuration allows for simplicity in communication and collaboration for all users, minimizing delay and abuse concerning manual tracking of projects. The system further enhances data protection by introducing the use of authentication and access control.

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