



# Implementation of Student Project Analysis and Management

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## Abstract:

In today's era, Project Management is not an easy activity. Collaboration of Project Guide and group members are often a tedious affair. And to effectively manage the history of previous projects a well-designed system is needed. There are many traditional Activities such as group allotment, project allotment, guide allotment, marks distribution etc. All these work consume a lots of manual time. There are some issues occur during project management like project ambiguity. Hence to eliminate these issues and to minimize the manual paper work and time we introduce SPAM system. Moreover, SPAM is a Web Application which automates the whole project management system through which we can view the documentation related to the project tasks.

**Keyword:** Web Application, Documentation View, Upload and download module.

## I. INTRODUCTION

Colleges, Universities or any Educational Institutes conduct projects for the better understanding of the practical approach towards the subject in the real world. And the project involves a lot of tasks like abstract or synopsis evaluation, thesis correction and updating the proposed module with your guides. Previously project tasks are done with no synchronization and in the traditional manner which consumes a lot of time and efforts. And also the data related to project has no place to store at one place. Also project tasks consist of Group formation, Project topic allotment, Guide allotment, Marks distribution etc. Moreover, project tasks involve mutual interaction between student and guide. [1] There are a number of problems with traditional approaches to the submission and management of student assessment, especially in a distance education setting. Student Project Analysis and Management (SPAM) automate all of these tasks. Indeed, students are often unaware of previous year project topics and end up choosing the same topics. Hence in this system we can also review the record of previous year project topics. It will help the students as well as their guides to evaluate the report of the projects from anywhere, anytime. This system will help the students to upload the documentation related to the project task so that one uploads it from anywhere. Also the students as well as guides will be notified about each and every task which is being assigned. Thus this will help to maintain the complete record of the project documentation in an organized platform. Thus this Student Project Analysis and Management System will be able to cater for a wide range of requirements either for students or for professors at educational institutes.

### A. Goals or Objectives

- To automate the traditional process of the manual work involved in the project management.
- To provide recommendation for the topics to be selected for the project.
- To provide a well-organized platform to maintain all the history about the project tasks.

- To provide a system which will give evaluation for the documentation?

## II. LITERATURE SURVEY

“A Case Study of an Online Assignment Submission at UOM-V. Ramnarain-Seetohul, J.Abdoool Karim,A. Amir”- This paper explains that how the assignments given to the students can be managed online. This system also shows the graph of the feedback given to that system that how friendly it proved by the students as well as the teachers [1].

“Project Communication in Functions, Process and Project-oriented Industrial Companies- Jana Samakova, Kristina Koltnerova, Rudolf Rybansky”- This article is focused on the project communication management. This article describes that how much the communication in project is essential. It also describes that the process-oriented and project-oriented companies have better project communication management during the project life cycle [2].

“Project management theory and the management of research projects”- This paper discusses about the research done on the previous projects and the interpersonal dynamics of a research team. This article gave us the idea about maintaining all of the previous year projects in one single page so that there will be no conflicts in choosing the project topics.

“Web Based Student Information Management System S.R. Bharamagoudar, Geeta R.B., S.G.Totad”- This article describes that how the maintenance of the record of the students information can be done easily at one place. Thus it gave us the idea about maintaining all of the project related tasks at one single page. Also it tells about maintaining the progress report of the students based on their work performance.

“A Multi-Objective Approach for the Project Allocation Problem”- The article describes that the system performs allocation of the project as well as allows academics to rate the projects. The system captures the preferences of examiners as well as students and allocates projects to them in order to

maximize the number of students who gets their first choice in their preference list [4].

“An Evaluation of On-Line Assignment Submission, marking and Return”-The article describes about the online submission of assignments, marking and return. This article also reports on a formal evaluation to assess student perceptions of this new development.

### III. PROPOSED WORK

#### 1. IMPLEMENTATION

##### 1.1. Registration or Login Module

Every new user has to register first to get login id as well as password. The registered user can directly login in to their respective profiles. There will be separate logins for the students, project guide Head of dept. The user validation will be done based on the id given to the user so that unauthorized user won't be able to damage the system or harm the security.

##### 1.2. Upload/Download Module

This module is being proposed for the uploading of the documentation like abstract or synopsis by the student so that project can view it online. As well as download module is also proposed for downloading the formats of various journals or thesis.

##### 1.3. Previous Year Project Module

This module is being proposed for maintaining the previous year project details so that user can download various previous year project topics abstracts.

##### 1.4. Notification

This module is used by Project Incharge to give the necessary instructions regarding the project process and student can view the instruction from the notification module.

##### 1.5. Admin Module

This module will be used by Project Incharge, it has to processed various functions such as Group allocation, Guide Allocation, Project Selection, Domain selection, etc.

##### 1.6. Student Module

This module is being proposed for the Abstract submission as well as thesis or any other project related document submission and it can also form groups.

### 2. SYSTEM DESIGN

The Student Project Analysis and Management System is similar to the Project Management Application for the employees. This system works on management of the project at Institutional level. The complete flow of the system are as follows:

#### A. Flow of the System

There are different logins for student, project guides and Head of Dept. The students will enrol themselves in the system for the further process of group selection, guide selection, abstract

submission, documentation and report etc. The non-registered user cannot access any of the feature of the system.

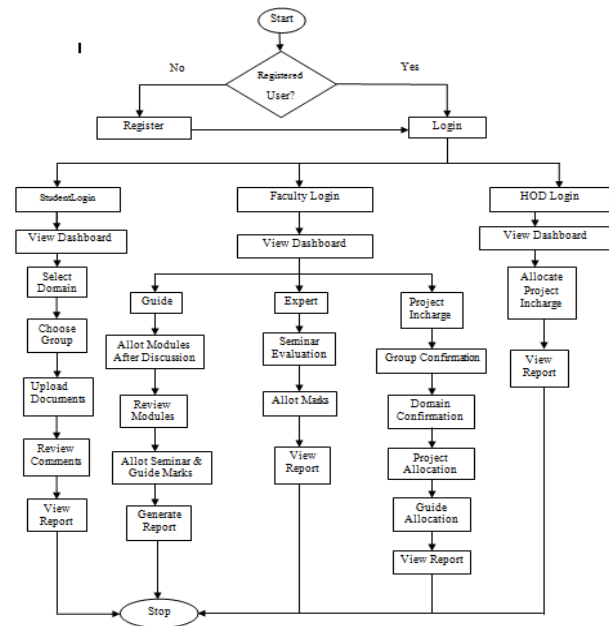


Figure.1. Flow Chart for Student Project Analysis & Management

After login to the respective profile, the students will be able to perform the tasks like selecting their group members, selecting their favourable project guide for the guidance in the project and can submit documentation for the project and can view the record of their progress report at the end of documentation, as well as can view the abstracts of the previous year projects. The project guide, after login to his profile can allot tasks to their respective students and can give reviews over the proposed work. The other faculties can also view and comment about the proposed work submitted by the student. The project guide of the group can also do the same for the other groups. The Head of dept. can view all of the tasks of the students as well as the progress report of the students for the evaluation for the academics. At the end, after performing the respective tasks in their respective profiles, user needs to logout from the system for security.

#### B. Use Case Diagram

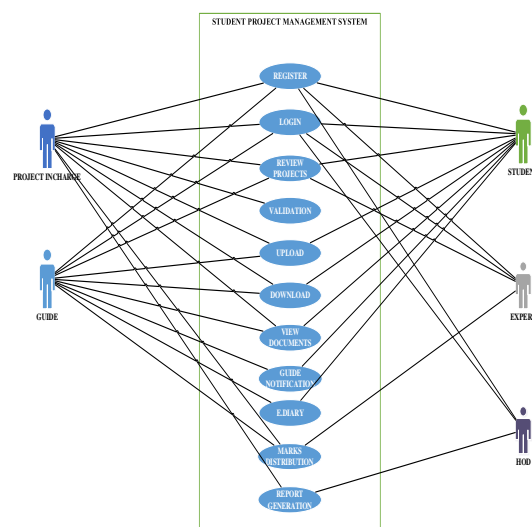
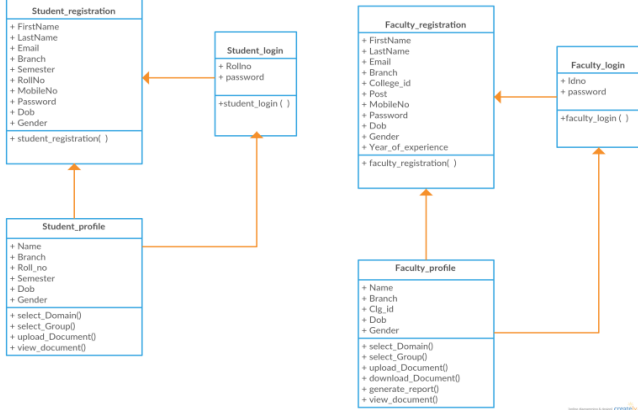


Figure.2. Use Case Diag. for Student Project Analysis & Management

In this system there are four logins i.e. Student login, Guide Login, Project Incharge Login, HOD Login. The system will

ask for the registration first and then the actor can login to their respective logins. After login every actor will jump into their dashboards and can perform their respective functions. The student will be able to perform all of the project related processes through this system and the faculty can evaluate the work through the system. At the end of the completion of the project the report for the complete progress of the particular project will be generated.

### C. Class Diagram



**Figure.3. Class Diagram for Student Project Analysis & Management**

In this class diagram there are two classes. These two classes were playing an important roles such as student class there are different attributes such as stud-name, User\_name and password, etc. and it perform operations like registration(), login(), formgroup(), etc. Faculty class there are different attributes such as Username, Jobpost and password, etc. and it perform operation like registration(), login(), Notification(), etc. There is one too many dependencies between student and faculty class as there should be number of student's record.

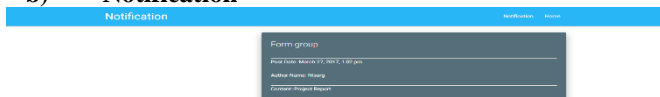
### 3. SCREENSHOTS

#### a) Homepage



This is the home page where all students can view the various sample formats and can check the notifications.

#### b) Notification



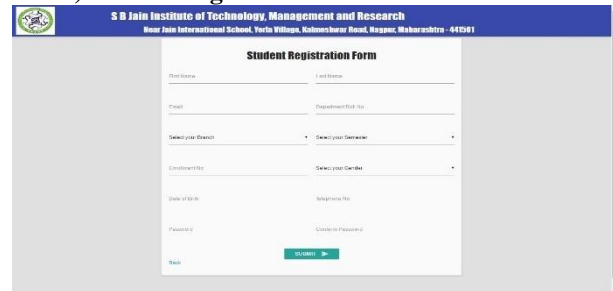
This is the notification module. Notifications can only be given by the Project In charge & it is visible to all the students.

### Previous Year Project



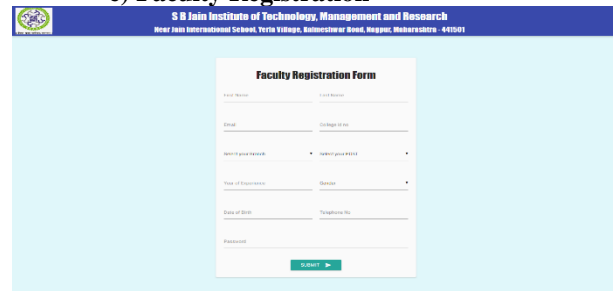
In this module we maintain the details of previous year projects so can everyone view and download it.

#### d) Student Registration



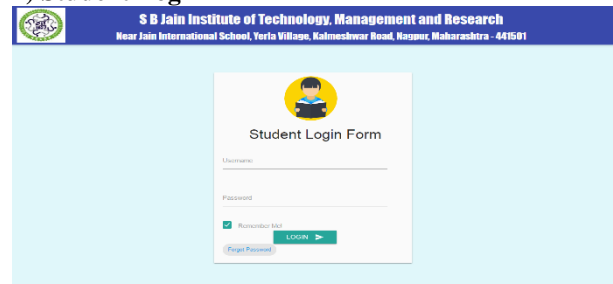
This is the student registration module where student have to register for using other service provided by the system.

#### e) Faculty Registration



This is faculty registration module where each faculty have to register themselves and have to provide their professional information.

#### f) Student Login



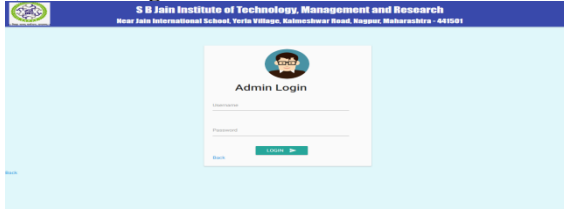
Student has to login from this page to continue the project process.

#### g) Faculty Login



Faculty has to login to continue the process.

### h) Admin Login



This is admin login, Project Incharge can login from this page.

### i) Domain Submission



This module used by student to submit their interested work domain.

### j) Abstract Submission



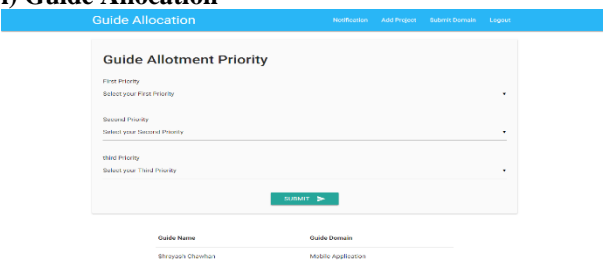
This is one of the upload module where student can submit their abstracts to project In charge.

### k) Add post



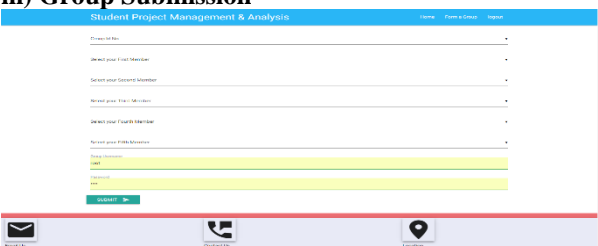
This module is used by admin to post any notification about the project process.

### l) Guide Allocation



This module is used by Project Incharge to allocate the guide to the respected groups.

### m) Group Submission



This module is used by student to submit their project group members name to the project Incharge.

### n) Admin Dashboard

Admin						
First Name	Last Name	Email	Search	Exite	Mobile	Username
Shreyash	Chawhan	shreyashchawhan@gmail.com	Computer Science and Engg	122499707224997	973095792	SH
Shreyash	Chawhan	shreyash.chawhan@gmail.com	Computer Science and Engg	12345678912345678	973095792	SH
Shreyash	Chawhan	shreyash@gmail.com	Computer Science and Engineering	12345678912345678	123456789	SH
Shreyash	Chawhan	shreyash@gmail.com	Computer Science and Engineering	12345678912345678	123456789	SH
Shreyash	Chawhan	shreyash@gmail.com	Computer Science and Engineering	12345678912345678	123456789	SH
Shreyash	Chawhan	shreyash@gmail.com	Computer Science and Engineering	12345678912345678	123456789	SH

This is Admin profile where he/she can perform various operation.

This module being proposed for faculty so they can provide their respective working domain in which they work so it will be helpful for admin to allocate the guide according to the comparison of domain.

## IV. CONCLUSION

The survey helped in building a collaborative system for students as well as professor for performing project related tasks. This system has overcome all the traditional process of manually submitting the project abstracts, synopsis or any other documents. Also it provides a platform where guide can allot tasks to their respective group and student can choose his group as well as can choose his project guide. Project related tasks can be allotted by the project guide and other faculties can only give reviews over it if they wish to. Students can directly upload their proposed work and the documentation on this system for evaluation of the work. At the end of the project completion, based on the performance of the students, a report will be generated for the academics and grading of the student.

## V. REFERENCES

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