

Online Task Management System (OTMS)

GRISHMA HEDAOO¹, PRIYANKA THOKE², RAKSHA TABHANE³, SHUBHAM MESHARAM⁴,
SWAPNIL KUMBHALKAR⁵, PROF. MUKESH BARAPATRE⁶

^{1,2,3,4,5,6} Department of Information Technology and Engineering, S. B. Jain Institute of Technology,
Management and Research, Nagpur, India.

Abstract -- The Online Task Management System is designed from day to day working of department of a college. The project provides online platform to accomplish day to day department level task and provide information of the task to specified user. Admin can assign task, give notification and adds different users in this project. Important benefit of this proposed system is that the user-friendly design helps the admin and user to interact and accomplish various types of tasks online with ease. the Online Task Management System involves identifying, acquiring, allocating and tracking all the resources. Admin maintains a database system and is responsible for the performance of the system. Admin have authority to control the entire system. User have no authentication to see admin task. The purpose for developing this project is to generate a platform where admin can do all types of operations like view, insert, edit, events, delete and tracking operations. Admin user is a privileged user who can add/modify a task.

Indexed Terms: Data program, Client-Server architecture, Android Studio, Server-side programming techniques.

I. INTRODUCTION

The Online Task Management System is used to automate the process of admin and user management and user task. The work is under observation of the higher authorities. The project provides online platform to accomplish day to day task in a college department. The proposed software will help the student and teacher to communicate with each other. The system easily assigns tasks so as to avoid all the time-consuming and unnecessary meetings. Teacher can periodically share all the details regarding the assignment with the Student. The management of assignment or task is easy from both end. The teacher is able to assign task to the student. The task will observe and controlled by the Head of Department. This software provides facilities to assign task, send message, send and view notification to the users of this software. HOD maintains a database system and is

responsible for the performance of the system. HOD have authority to control the entire system. IT Infrastructure is privileged user who overlook over Task module. The purpose for developing this project is to generate a platform where Head of Department can do operations like assign, add users and view operations. HOD, IT Infrastructure and Teachers are privileged users who can add/modify a task. Online task management software as it enables users to organize and prioritize projects efficiently and with flexibility. The Online task manager Software starts with the task and end up with checkmarks, the deadline and track the works will be notified.

What is OTMS?

The OTMS is abbreviation form of Online Task Management System. It is developed to automate the process of admin and user management and user task. This system will provide a platform for all the faculty members to communicate and execute various college related tasks.

II. LITERATURE SURVEY

Websites / Paper / Article/Applications	Reviews / Findings
Processpolicy.com	It is an online software solution workflow management and task management.
Projectmanagement.com	Project manager.com contributor Elizabeth Harrin shares tips for saying focused and avoiding multitasking in the article.
Trello	App and website for project management
Kumban flow	App to view time spend on a task

Producteev	This software very helpful in providing seamless tasks, subtext to assigned, labelled, prioritized and to submit before the deadline.
Hitask	This software is integrated with a centralized file, calendar, and notifications and alert.
Aadamsoo-Anne Mai's Book of Web Based	This book provides the importance of time
Project Management System	management Software and task management Software.

III. PROPOSED SYSTEM

The application is for online task management which will be sophisticated and implemented for the HOD's, Student's, Teacher's and Assistant's reliability. The system will be used by five users. They are: HOD, Student, Teacher and Assistant. The HOD is only responsible for the collecting information of the other User's data. The users can use this app in order to accomplish day to day tasks. The whole system is divided into the five modules. They are Login Module, Registration Module, Message Module, Notification Module, Task Module, Complaint Module. The online task management system will enable us to make efficient to accomplish college related tasks. This application presents the design and implementation of Online Task Management System. The application provides the design of data program and the approach of allocating various tasks.

As "OTMS" is android application, it needs MYSQL for database, PHP and Json for Server-Side Coding and the Android Studio for the development.

a) **MYSQL:** MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is released under an open-source license. MySQL is a very powerful program in its own right. MySQL uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.

b) **Android:** Android is a Linux-based operating system which primarily designed for mobile devices such as smart phones and tablet computers utilizing ARM processors. As the Android consists of a kernel based on the Linux kernel with middleware, libraries and APIs written in C and application software running on an application framework which includes Java-compatible libraries based on Apache Harmony. By using Android Software Development new applications are created for the Android operating system. Mostly applications are usually developed in the Java programming language using the Android Software Development Kit. Android uses the Dalvik virtual machine with just-in-time compilation to run Dalvik dex-code (Dalvik Executable), which is usually translated from Java byte code.

C) **PHP:** PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

JSON: JSON short for JavaScript Object Notation is a format for sharing data. JSON is derived from the JavaScript programming language, but it's available for use by many languages including Python, Ruby, PHP, and Java. JSON is usually pronounced like the name "Jason."

The procedure will be as follows,

1. Start the application:

The user needs to install the application on his Android based device. After installation, the icon of the app will feature on the Home Screen of the user's device. App welcome screen will be flashed to the user on opening the application.

2. Registration:

Initially, the user must register his details with the application for the first time. This is a one-time registration. The user has to enter details like first name, middle name, last name, department, profile and email- id. All this data will be stored on database.

3. Login:

Once the user registers, he can use his email id to login in future. This authenticates the user. All the users including HOD, Teacher, Assistants and students needs to create a account on OTMS. The IT-Infrastructure user will be provided with a Login-ID and Password along with this system.

4. Allotting Task:

The HOD, Teachers and IT-Infrastructure are provided with permission to allot tasks to assistants. Student cannot allot tasks.

5. Send Message:

HOD and Teacher can send message to students, assistants and to each other. Students are not allowed

to send messages, but they will be able to view message sent to them.

6. Send Notification:

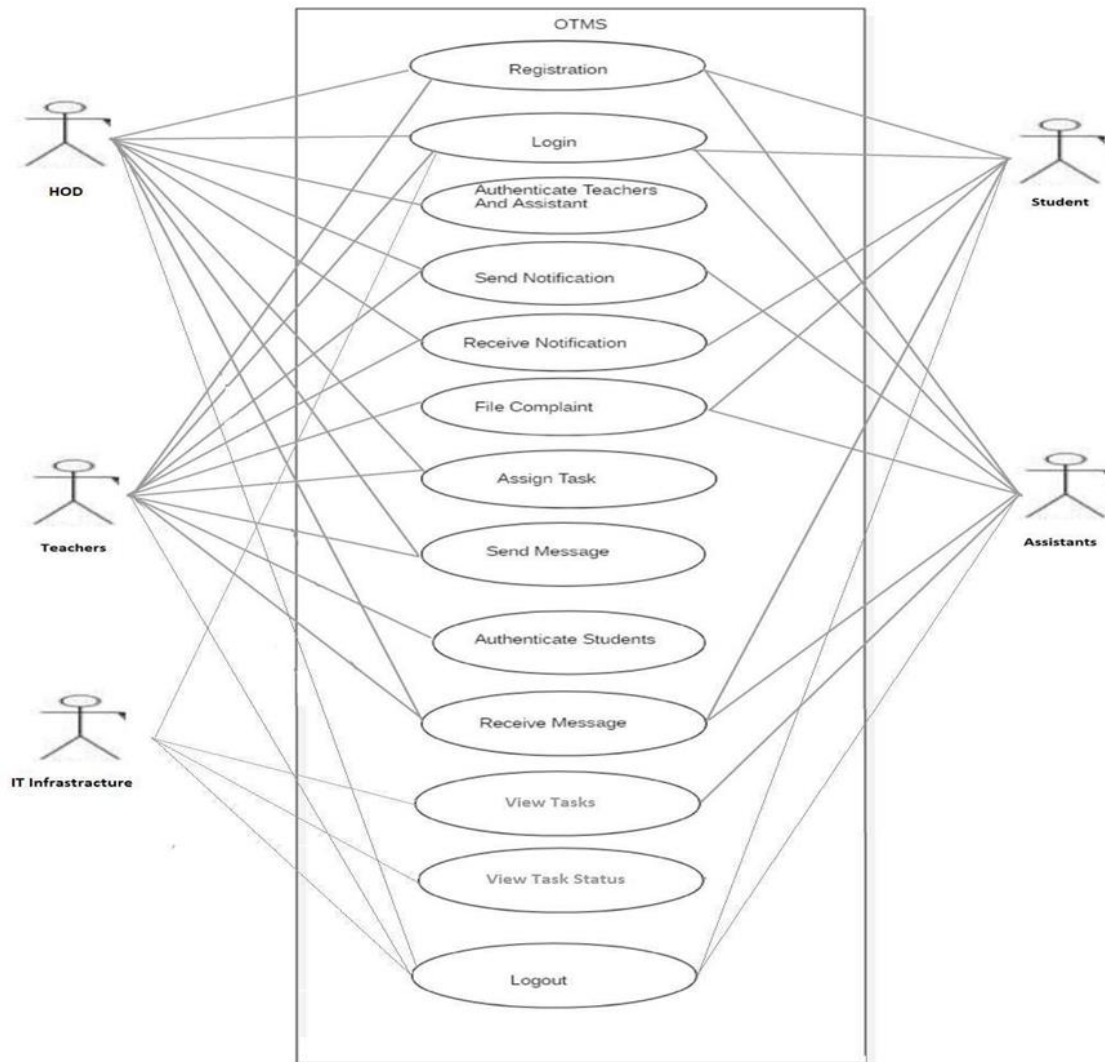
HOD, Teacher and Assistants can send notification on the system. Students are not allowed to send notification.

7. Complaint:

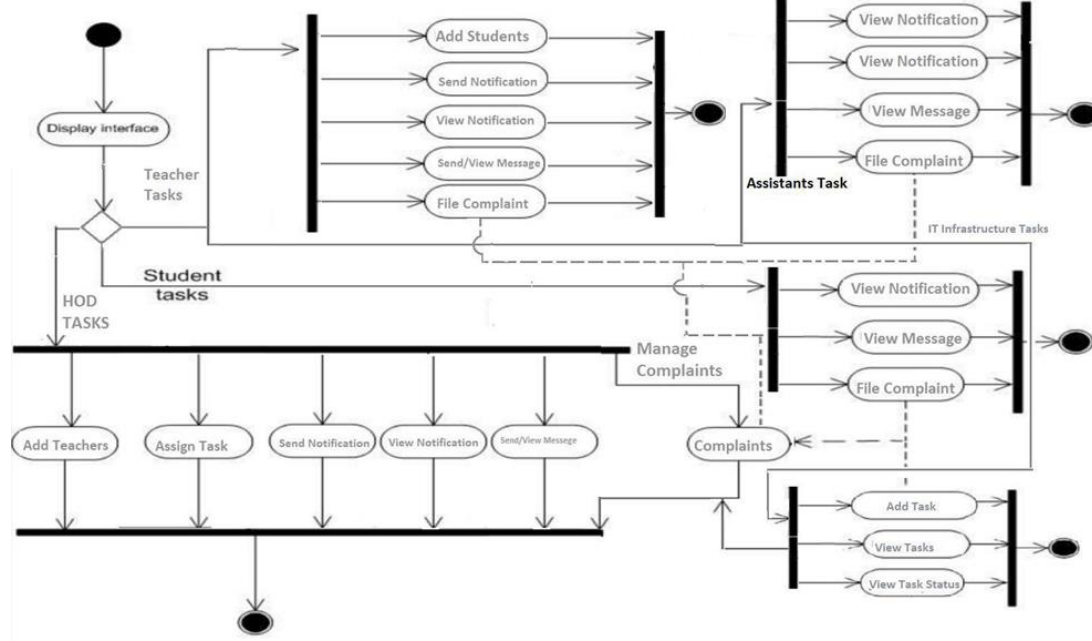
Teacher, Assistants and Students can file a complaint which will be addressed by HOD.

IV. SYSTEM DESIGN

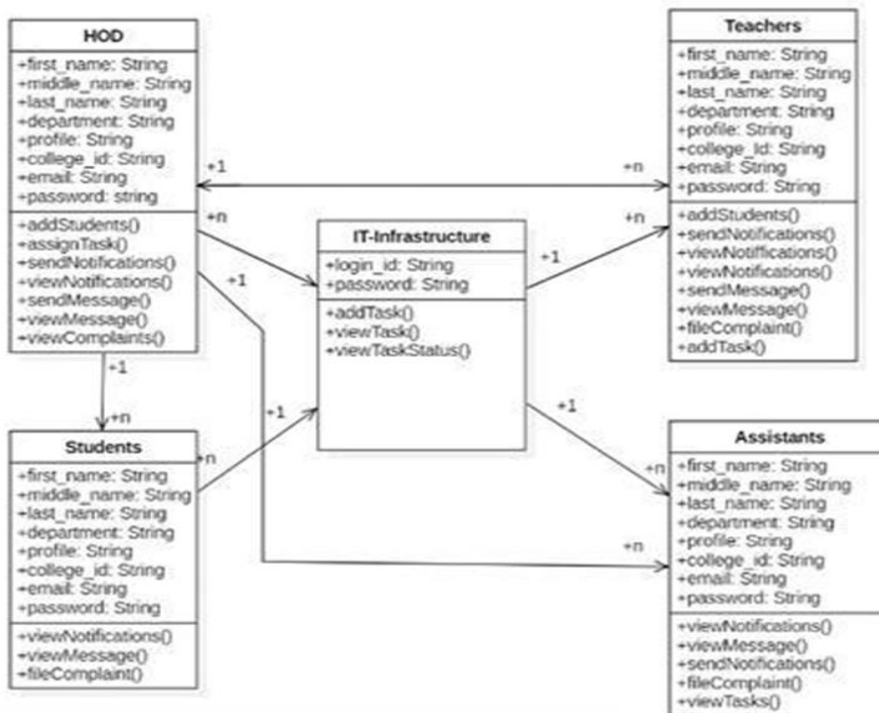
- Use Case Diagram



• Activity Diagram



• Class Diagram



V. MODULES DESCRIPTION

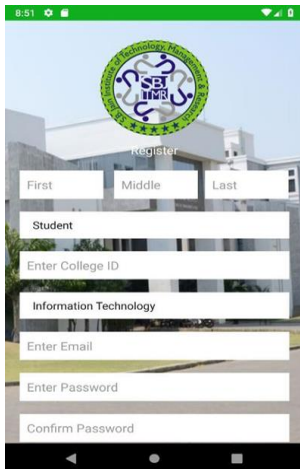
5.1 Login Module

- In the login module, the registered user is able to login in the system. The registration of any Student is must be done by the Head of department.
- The Head of Department is also able to Modify and delete the Student as well as the teacher.
- The login is fast and secured.



5.2 Registration Module

- This module is only operated by the Head of Department.
- The registration process is fast and secured. The unauthorized person is not able to register the task.
- Some snap of Registration Module is Shown below.



VI. TECHNOLOGY USED

6.1 Front End:-

- Android Java: - The android is use to define the working of the layout created by the XML and CSS. The java code of android is responsible to communicate with MYQSL and the interface.
- XML: - Xml is used for layout designing. All the UI and layout of your app is designed using xml.
- HTML: - HTML describes the structure of Web pages using mark-up.
- CSS: - CSS is a language that describes the style of an HTML document.

6.2 Back End: -

- Android:- Android software development is the process by which new applications are created for devices running the Android operating system
- PHP: - PHP (recursive acronym for PHP: Hypertext Pre-processor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

6.3 Database: -

- MySQL: - MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is released under an open-source license. MySQL is a very powerful program in its own right. MySQL uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.

VII. ADVANTAGES AND APPLICATIONS

- Effective Task Management
- The system is uses to notify for the user, proper distribution of task, higher authority supervision, etc. to make it effective task management application of web-app.
- Flexibility and scalability

The system is accessible for anywhere. The system provides everything which is required.

- **Effective time management**
The system is able to trace the work with respect to the time.
- **Uninterrupted communication**
The network is secured, and it uses some amount of data to be transferred so that it is uninterrupted due to slow network.
- **Notifications and reminders**
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VIII. CONCLUSION

In conclusion Online Task Management System is a crucial tool in managing the day to day tasks in college. Project managers also need to take advantage of the effectiveness of project management software to ensure that the project they are carrying out become successful. The college will implement this project on their server. This will allow the students, hod, teachers and assistants to log in and register and get notifications from college.

This system will allow effective management of human resources available to in the college. It also ensures the effective time management and provide an interface to communicate on a college provided platform. Effective notification management is also a crucial benefit of this system. The college staff will be able to notify every student about recent events or important activities taking place in college. The Online Task Management System also provides a simple messaging service which will allow staff of the college with better communication option to use and

will also allow college to monitor their staff's efficiency. The most important purpose of Online Task Management System is to provide a platform to assign various types of tasks to the staff members of the college.

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