Online Task Management System (OTMS)

T.Harini [1], Afsar Pasha [2], D. kumar[3]

1Assistant Professor, Swarna Bharathi Institute of Science & Technology, India, E-mail: thummaharini@gmail.com.

2Assistant Professor, Swarna Bharathi Institute of Science & Technology, India, E-mail: afserpasha@gmail.com.

3Assistant Professor, Swarna Bharathi Institute of Science & Technology, India, E-mail: Dh26kumar@gmail.com.

Abstract:

The Online Task Management System was created with a college department's daily operations in mind. The project offers an online platform for completing daily department-level tasks and informing designated users about them. The administrator may add people to this project, assign tasks, and send notifications. One of the main advantages of this suggested system is that its intuitive design makes it easy for users and administrators to communicate and complete a variety of jobs online. The Online Task Management System includes resource identification, acquisition, allocation, and tracking. An administrator is in charge of maintaining a database system and overseeing its functionality. The administrator has the power to manage the whole system. The user is not authenticated to see the admin task. The project's goal is to provide a platform that allows administrators to do various tasks, including viewing, inserting, editing, deleting, and tracking. An administrator is a privileged user with the ability to add or edit tasks.

Indexed Terms: Android Studio, client-server architecture, server-side programming methods, and data programs.

I. INTRODUCTION

The administration, user, and task management processes are automated by the Online Task Management System. The higher authorities are keeping an eye on the job. To complete daily tasks in a college department, the project offers an online platform. The suggested software will facilitate communication between the instructor and the student. Tasks are assigned by the system with ease, preventing needless and time-consuming meetings. Every now and again, the teacher may provide the student all the information about the task. Managing a job or assignment is simple on both ends. Students might be given tasks by the instructor. The department head will oversee and manage the work. This program offers its users the ability to assign tasks, send messages, and see notifications. HOD is in charge of database system maintenance and system performance. HOD own the power to manage the whole system. IT infrastructure is used by privileged users who are unaware of

Module of tasks. The goal of this project's development is to provide a platform that will allow the department head to do tasks like assigning, adding users, and viewing operations. Teachers, IT infrastructure, and the HOD are privileged users with the ability to create or change tasks. Online task management software because it allows users to easily and flexibly prioritize and arrange tasks. The online task organizer software begins with the task and ends with checkmarks. It also notifies users of the deadline and tracks their progress.

What is it OTMS?

The Online Task Management System is shortened to OTMS. It was created to automate the administration, user, and task management processes. All of the teachers will have a platform to communicate and carry out different college-related duties thanks to this technology.

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 Project Management System	This book provides the importance of time management Software and task management Software.

III. PROPOSED SYSTEM

3. Login: After registering, the user may log in later using his email address. This verifies the user's identity. Every user, including the HOD, teachers, assistants, and students, must register for an OTMS account. This system will come with a login ID and password for the ITInfrastructure user.
4. Task Distribution: Permission to assign duties to assistants is granted to the HOD, instructors, and IT infrastructure.
Students are unable to assign assignments.
5. Send Message: Teachers and HODs may communicate with each other, students, and helpers. Although they are not permitted to send messages, students may see those that have been sent to them.
6. Send Notification: The system allows HOD, teachers, and assistants to send notifications. Notifications cannot be sent by students.
7. Complaint: The HOD will handle complaints from teachers, assistants, and students. For the dependability of the HOD, students, teachers, and assistants, a comprehensive online task management solution will be installed. Five people will utilize the system. They are the assistant, teacher, student, and head of department. The sole task assigned to the HOD is gathering data from other users. This program may be used by users to do daily activities. The five components make up the whole system. These include the modules for login, registration, messages, notifications, tasks, and complaints. We will be able to do college-related duties more quickly thanks to the online task management system. The Online Task Management System's architecture and implementation are shown in this application. The application offers the data program design and the method for assigning different duties. Since "OTMS" is an Android application, it requires Android Studio for development, PHP and JSON for server-side coding, and MySQL for the database.
a) MYSQL: Many small and large enterprises utilize MySQL, a quick and simple RDBMS. An open-source license governs MySQL's distribution. MySQL is a very powerful software on its own. A standard version of the popular SQL data language is used by MySQL. PHP, PERL, C, C++, Java, and other languages are among the numerous operating systems and languages that MySQL supports.
b) Android: Android is an operating system based on Linux that is mainly intended for mobile devices that use ARM processors, such tablets and smartphones. Android is made up of a Linux-based kernel with middleware, libraries, and APIs written in C, as well as application software that runs on an application framework with Apache Harmony-based Java-compatible libraries.New apps for the Android operating system are made via Android Software Development. The Android Software Development Kit is often used to create Java apps. Android runs Dalvik dex-code (Dalvik Executable), which is often translated from Java byte code, using the Dalvik virtual machine with just-in-time compilation.
C) PHP: PHP is an HTML-integrated server-side programming language. It may be used to create whole e-commerce websites as well as handle databases, dynamic content, and session monitoring. Numerous well-known databases, such as Microsoft SQL Server, Sybase, Oracle, PostgreSQL, MySQL,

and Informix, are connected with it. JavaScript Object Notation, or JSON for short, is a data exchange format. Although JSON is originated from the JavaScript programming language, Python, Ruby, PHP, and other languages may all utilize it. JSON is often pronounced similarly to the name "Jason."
The process will be as follows:
1. Launch the program:

The program must be installed on the user's Android-powered handset. The app's icon will appear on the user's device's Home Screen upon installation.
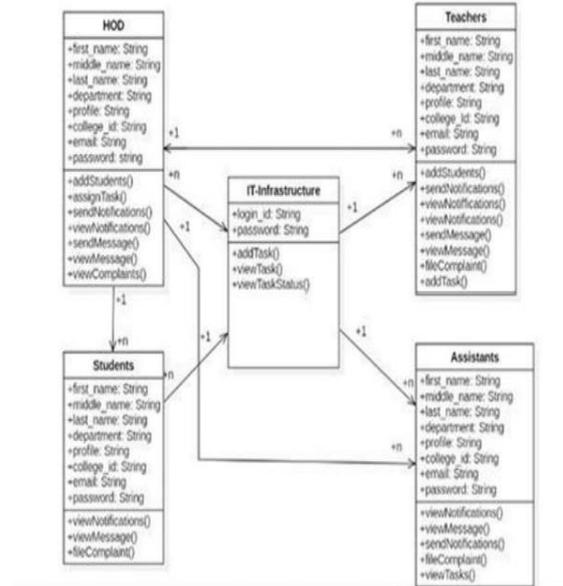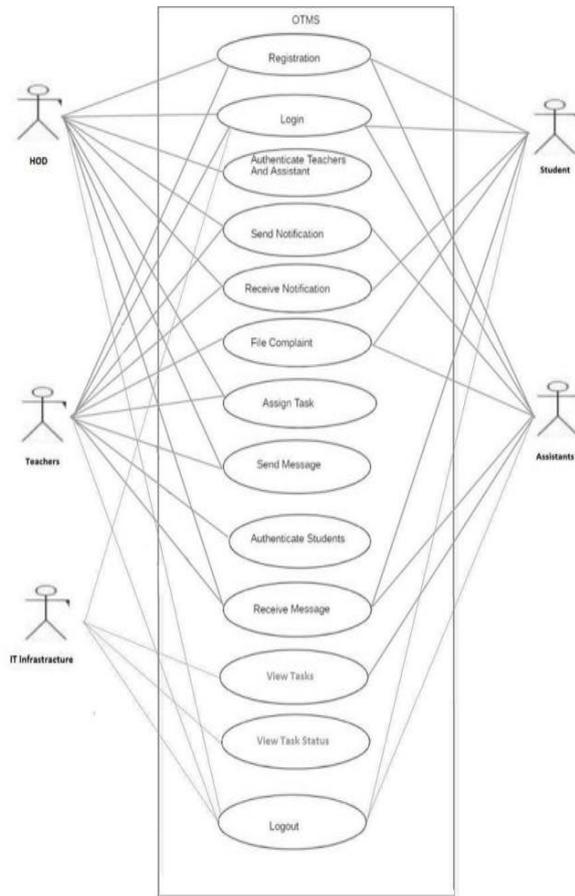When the user opens the program, a welcome screen will appear.

2. Enrollment:

The user must first register his information with the program. This registration is only valid once. Information such as first name, middle name, last name, department, profile, and email address must be entered by the user. All of this information will be kept in a database.

IV. SYSTEM DESIGN

Use Case Diagram

Activity Diagram
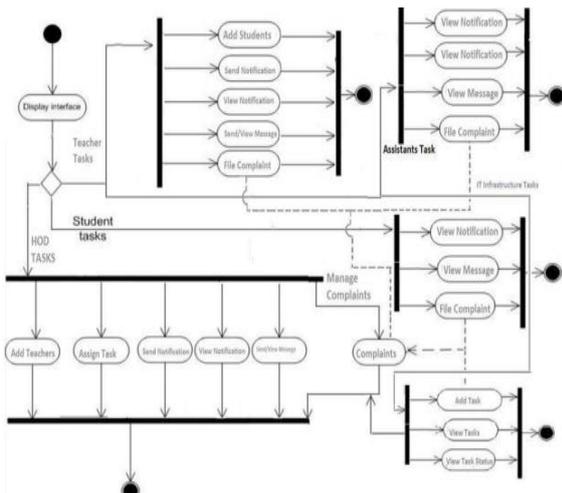

Class Diagram

V. MODULES DESCRIPTION

5.1 Login Module

• The registered user may access the system using the login module. The head of the department is responsible for registering all students.
• Both the instructor and the student may be edited or removed by the department head.
• The login process is quick and safe.

5.2 Registration Module:

The Head of Department is the only person who may use this module. The registration procedure is quick and safe.The task cannot be registered by an unauthorized individual. Below are a few screenshots of the registration module.

VI. TECHNOLOGY USED

6.1 Front End:

• Android Java: Android is used to specify how the layout made using XML and CSS operates. Android's Java code is in charge of interacting with the interface and MYQSL.

• XML: Layout design is done via XML. Your app's entire user interface and layout are created using XML.

• HTML: HTML uses markup to define the structure of web pages.

• CSS: An HTML document's style is defined via the CSS language.

6.2 Back End: -

Android: The process of creating new applications for Android-powered devices is known as Android software development. PHP: PHP, which stands for Hypertext Pre-processor, is a popular open-source general-purpose scripting language that is particularly useful for web development and can be integrated into HTML.

6.3 Database: -

MySQL: - Many small and large enterprises utilize MySQL, a quick and simple RDBMS. An open-source license governs MySQL's distribution. In all of itself, MySQL is a highly powerful software. A standard version of the popular SQL data language is used by MySQL. PHP, PERL, C, C++, Java, and other languages are among the numerous operating systems and languages that MySQL supports.

VII. ADVANTAGES AND

APPLICATIONS

Effective Task Management

• The system is used to inform users, distribute tasks appropriately, supervise higher authorities, etc. to make it an efficient online application for task management.
• Adaptability and expansionThe system is available from any location.

The Everything needed is provided by the system.
• Time management that works The work may be tracked by the system in relation to the time.
• Constant communication The network is safe and transfers a certain amount of data to prevent disruptions from a sluggish network.

• Reminders and notificationsThe user receives the notice from it. The respected user is the basis for the notification.
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VIII. FINAL RESULTS

To sum up, an online task management system is an essential tool for handling daily responsibilities at college. To guarantee the success of the project they are working on, project managers must also use the efficacy of project management software. This project will be implemented on the college's server. Students, faculty, staff, and assistants will be able to register, log in, and get college alerts thanks to this. This technology will enable efficient administration of the college's personnel resources. Additionally, it guarantees efficient time management and offers a communication interface on a platform offered by the institution. Another essential advantage of this system is its ability to handle notifications effectively. Every student will be able to get notifications from the college personnel about significant events or recent occurrences. Additionally, the Online Task Management System offers a straightforward messaging tool that will improve communication for college employees and enable the institution to keep an eye on their productivity. The primary function of the online task management system is to provide college employees a platform to allocate different kinds of jobs.

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