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System Introduction

The Task Management System (TMS) is a web based application that addresses the diverse needs of users that are seeking for an efficient solution to organise and monitor their tasks. In response to dynamically changing demands of task management, TMS offers a set of features that enable users to register, log in, create, modify, and mark tasks as completed. The main objective of the system is to provide a platform that is user-friendly which will then promote users to enhance their task organisation and productivity.

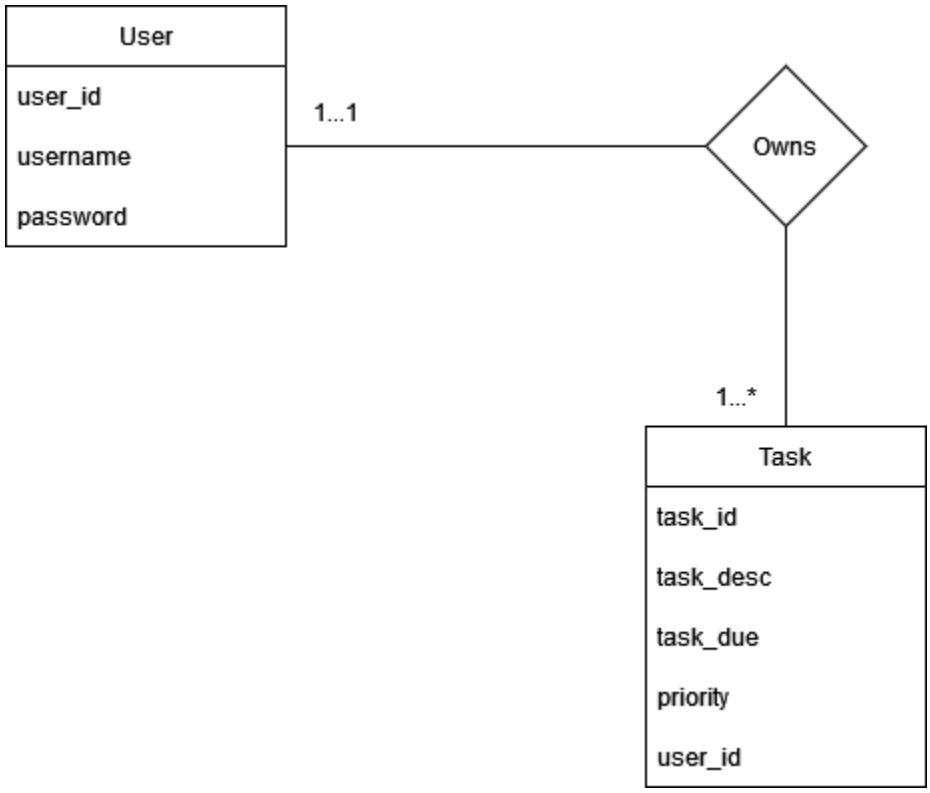
After registering and logging into the system, individual users will gain access to a personalised space where they are able to record and manage their tasks. The design of the system facilitates the addition of new tasks into the list. Users are able to input details such as task description, the due date of the task, and priority levels. Task completion is easily indicated by the deletion process which offers users a clear visual representation of that they have accomplished their goals.

Next, one of the functionalities of the TMS that deserves to be pointed out is the ability to filter tasks. Users can choose to sort the tasks that they have in the list based on the due dates which will ensure a focused and time-sensitive approach to their workload. Other than that, the different tasks can also be sorted based on priority levels. There are 3 main categories which are high, medium, and low priority. This enables users to identify the tasks that should be prioritised and completed earlier compared to the rest.

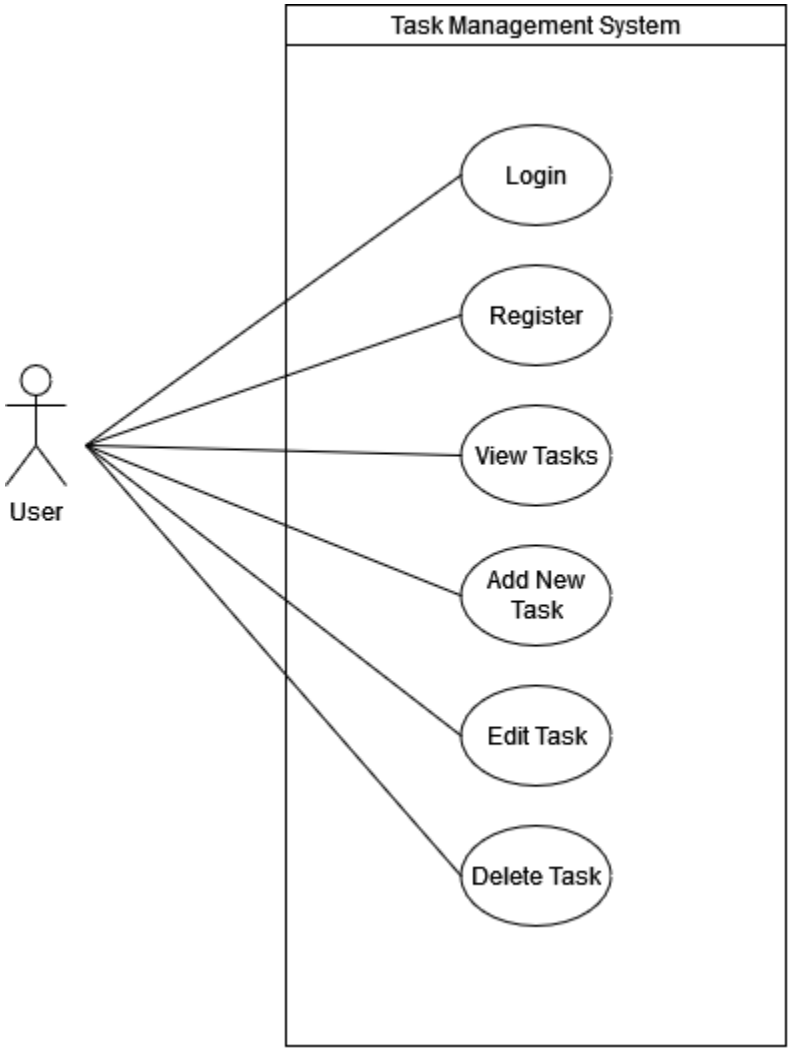
In conclusion, the Task Management System is not just a simple tool for listing out tasks but it is also an intelligent and user-centric approach that empowers users to take control of their daily activities, which promotes productivity and organisation in both their personal and professional realms.

System Design

ERD (Entity Relationship Diagram)



Use Case Diagram



Development Software, Language, Tools

Item	Example
Development Software	XAMPP (https://www.apachefriends.org/)
Language	PHP, HTML, CSS
Technology	MySQL
Tools	Bootstrap (https://getbootstrap.com/)

Development Software

Software used throughout the development of our system:

Software	Explanation
XAMPP Control Panel	The XAMPP Control Panel helps programmers access the features of Apache and MySQL in a more accessible way. This software provides a local host for the users. The local host will be used to test the website before uploading it to the hosting.
Visual Studio Code	Visual Studio Code acts as the main IDE used for the development of the Data Management System for YouthVentures Asia. This software was used to debug the code and run the code on the local host. It was also used to edit the interfaces of the system.

Programming Languages

Language	Explanation
HTML	Hyper Text Markup Language. This is the standard markup language that is used when creating web pages.

CSS	Cascading Style Sheets (CSS) are used to describe how the HTML elements appear on the website.
Javascript	Javascript is used to create interactive web pages.
PHP	PHP is a Hypertext Preprocessor. It is also used as a server scripting language. It is often used to develop either static or dynamic web pages.
Bootstrap	A popular HTML, CSS, and Javascript framework that is used to design and customize responsive web pages.

Database Design

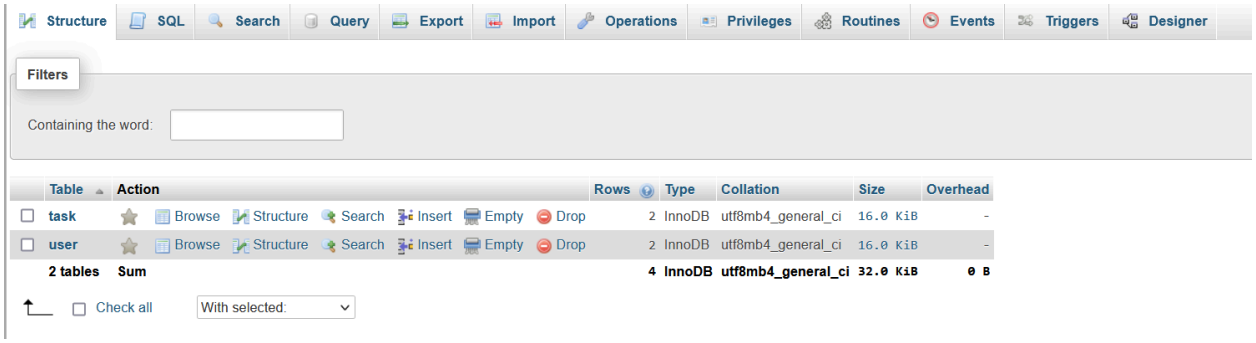


Table 4.1 : Structure of the database named "tms".

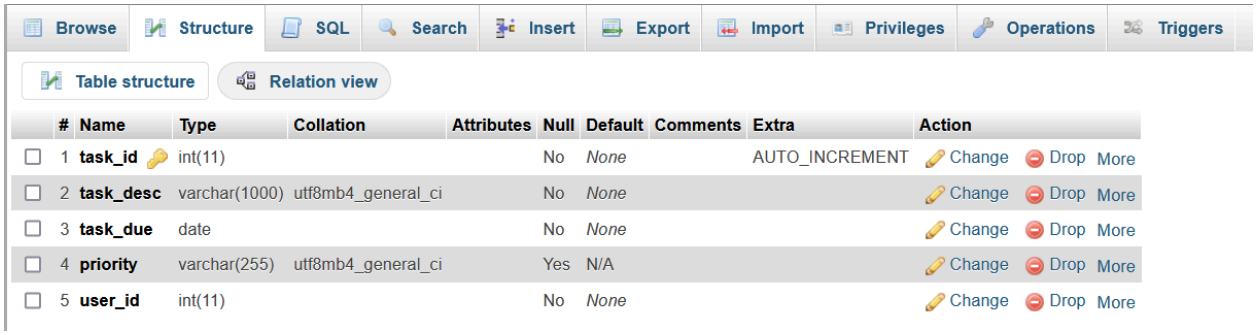


Figure 4.2 : Structure of the table named "task" inside the database.

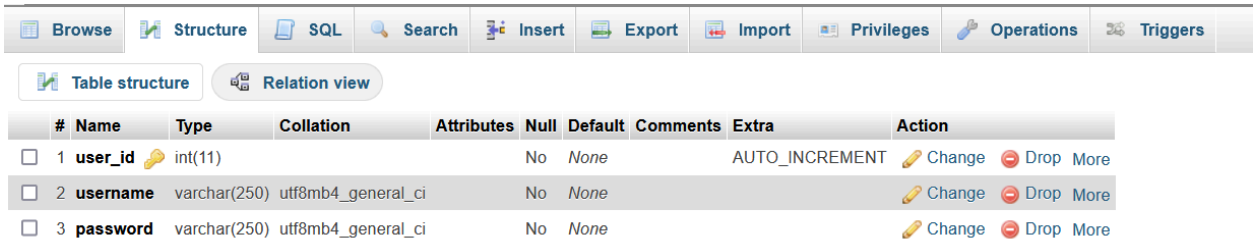


Figure 4.3 : Structure of the table named "user" inside the database.

Figure 4.4 : After clicking the "Designer" button for the "tms" database.

Development Steps

Step 1 : Plan the Task Management System and Requirements Gathering.
After reading through and understanding the case study given to me for the Task Management System. I was able to determine the purpose, and objectives of the system. The goal of the system is to create a system where the user can add the task or things that they need to complete so that they can be more organised and make use of their time to complete the tasks efficiently.

Step 2 : Design
I created the Use Case Diagram and the Entity Relationship Diagram (ERD). After that, I developed interfaces for the system using suitable programming languages and tools for web development such as HTML, CSS, Javascript, and also Bootstrap.

Step 3 : Development
For the development phase, I started working on the Task Management System. By using the information that I gathered from Step 1, I created a functional web-based application. During this process, I paid close attention to the fundamental functionalities that are required for efficient task management.

When creating the system, I made sure to take into account the essential security measures. This involved the implementation of security features such as password encryption using hashing. This is done so that user credentials are protected and guarding it against SQL injection vulnerabilities.

Step 4 : Testing
The testing phase was done so that the performance and overall functionalities of the Task Management System across various devices such as computers and mobile phones. Intensive testing was done to identify and address any bugs or glitches that will affect the user experience and system performance. This detailed testing is done not only so that the system meet its intended purpose but also to provide a seamless and user-friendly experience for the future users of the system.

System Interface for All Users

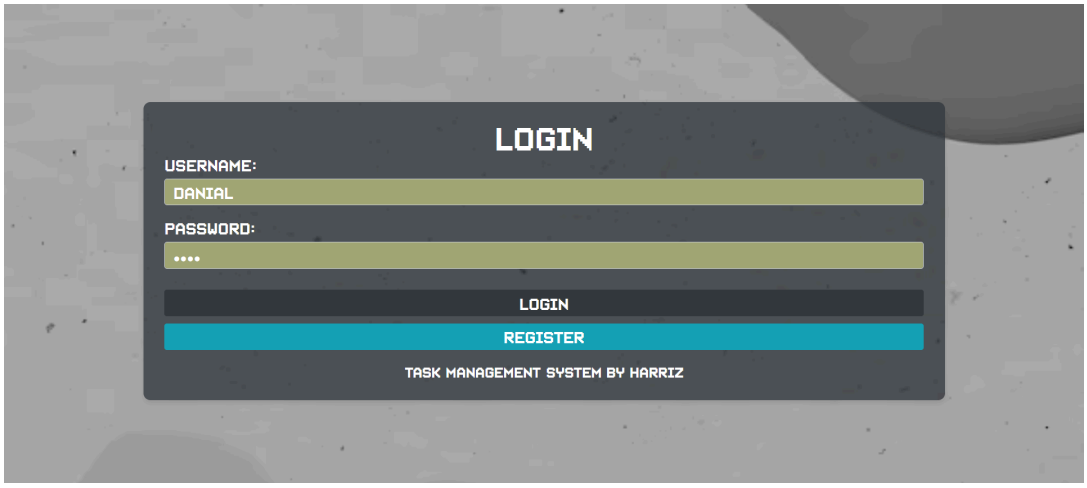


Figure 6.1 : Login Page

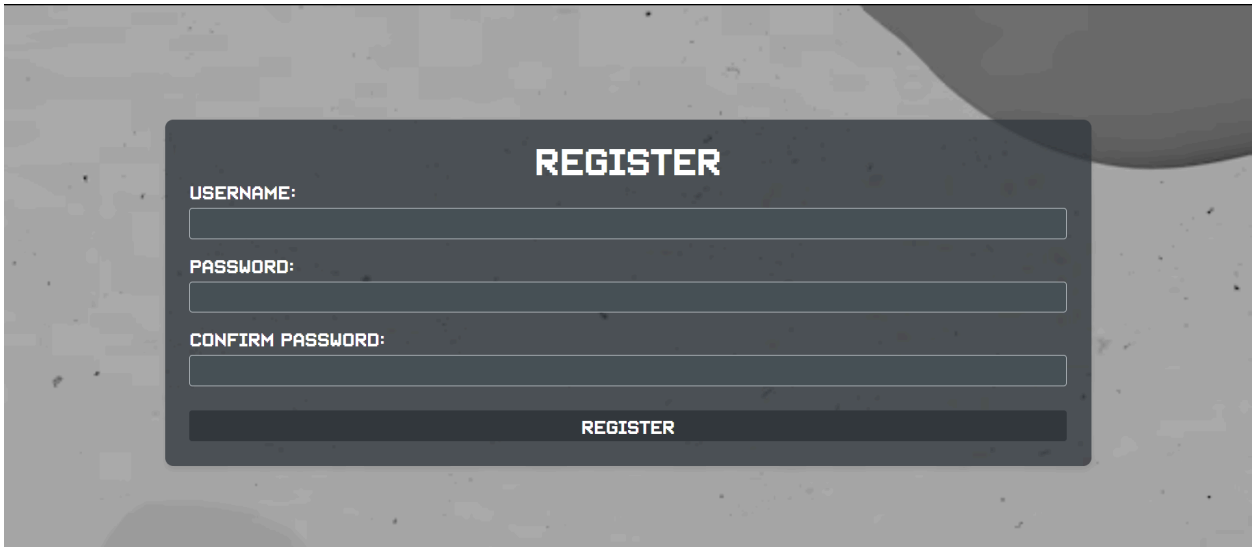


Figure 6.2 : Register Page

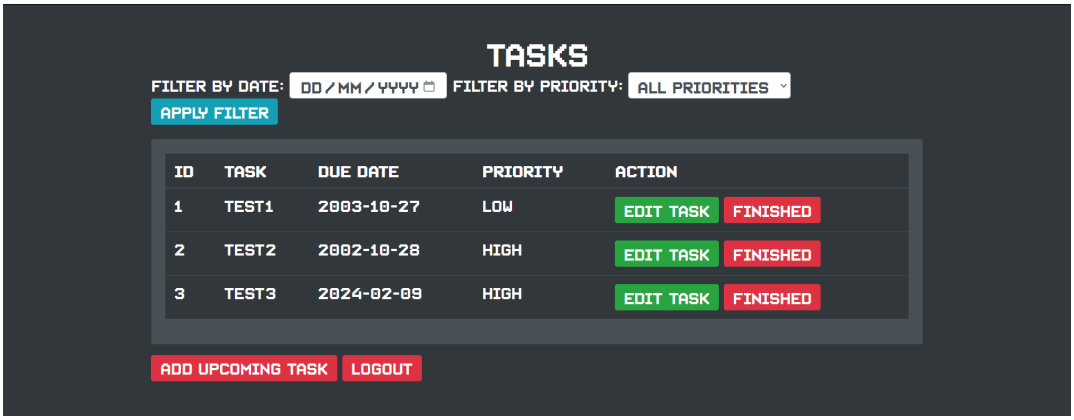


Figure 6.3 : Home Page

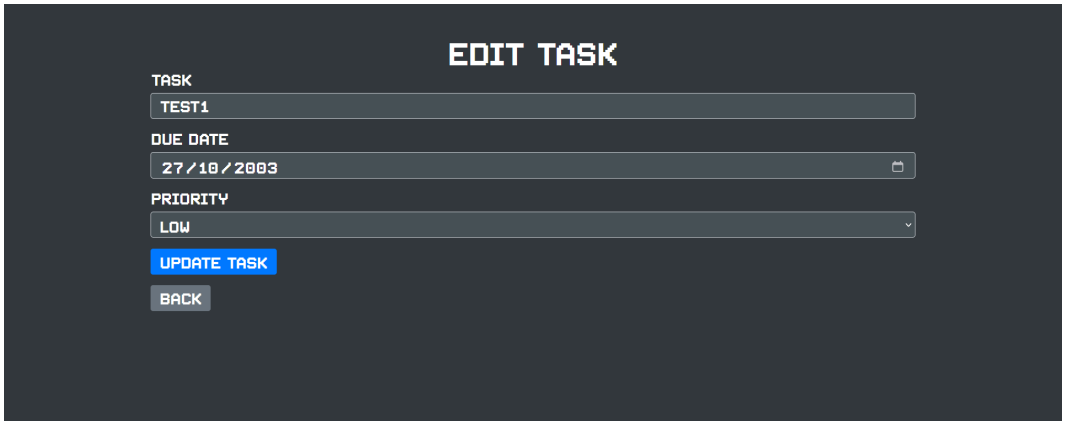


Figure 6.4 : Edit Task Page

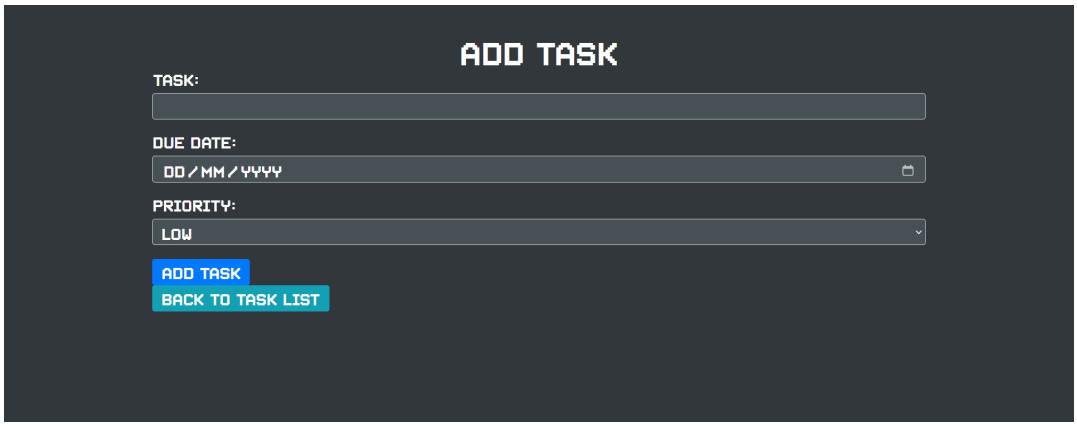
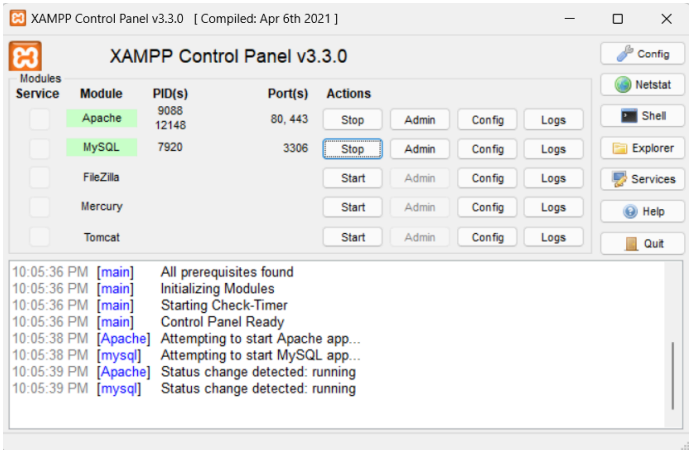


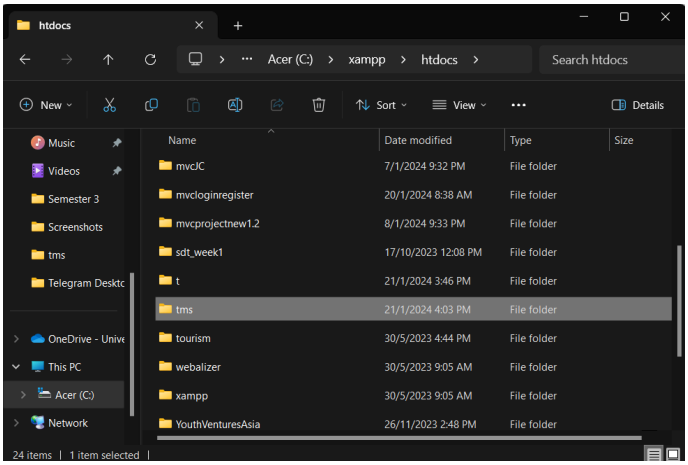
Figure 6.5 : Add Task Page

Localhost Setup

1. Download and install XAMPP from https://www.apachefriends.org/.
2. Start Apache and MySQL servers from the XAMPP control panel.



3. View the phpMyAdmin by clicking the "Admin" button on the "Actions" section of the MySQL module.
4. Extract the "tms.zip" file into xampp >htdocs file path.



5. Create a new database in phpMyAdmin called "tms".

User Credentials

Username	Password
Danial	danial
Harriz	harriz