



A

Project Report
On
TASKIFY

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Submitted at



Computer Science And Engineering
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At: Changa, Dist: Anand – 388421

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DECLARATION BY THE CANDIDATE

We hereby declare that the project report entitled "TASKIFY" submitted by us to Devang Patel Institute Of Advance Technology and Research, Changa in partial fulfilment of the requirement for the award of the degree of B.Tech in Computer Science and Engineering, from DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH, is a record of bonafied CS348-Software Group Project carried out by me under the guidance of **Prof. Nilesh Kumar Dubey**. I further declare that the work carried out and documented in this project report has not been submitted anywhere else either in part or in full and it is the original work, for the award of any other degree or diploma in this institute or any other institute or university.

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CERTIFICATE

This is to certify that the report entitled “**TASKIFY**” is a bonafied work carried out by **OM BHESANIA(D21DCS158), BHAKTESH PATEL(D21DCS159), NEEL PATEL(D21DCS166)** under the guidance and supervision of **Assistant Prof. Mr. Nilesh Kumar Dubey** the subject **CS348-Software Group Project-III(CSE)** of 5thSemester of Bachelor of Technology in **DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

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ABSTRACT

To increase an efficiency of a product, nowadays many web development companies are using different systems. A company may run a number of projects at a time, and requires input from a number of individuals, or teams for a multi-level development plan, whereby a good project management system is needed. Project management systems represent a rapidly growing technology in IT industry. As the number of users, who utilize project management applications continues to grow, web-based project management systems enter a critical role in a multitude of companies. Thus, a proper project management system plays a distinctive part in ensuring reliable, robust and high-quality web applications for customers. Developing a web-based project management system and showing how, in turns, it helps users to handle projects. These processes in everyday working life, is the scope of the thesis. The reliability and robustness of a web-based project management system has also been set as the structure of the current thesis. Finally, a web-based project management system has been developed, which highly meets the standards and requirements set by the company and it is easy to use and helps a user to complete task.

ACKNOWLEDGEMENT

We, the developers of full stack website “TASKIFY”, with immense pleasure and commitment would like to present the project assignment. The development of this project has given me wide opportunity to think, implement and interact with various aspects of coding skills as well as the new emerging technologies.

Every work that one completes successfully stands on the constant encouragement, good will and support of the people around. We hereby avail this opportunity to express my gratitude to number of people who extended their valuable time, full support and cooperation in developing the project.

We express deep sense of gratitude towards our Head of the CSE Department, Prof. Parth Goel and project guides Prof. Nilesh Kumar Dubey for the support during the whole session of study and development. It is because of them, that I was prompted to do hard work, adopting new technologies.

We would also like to thank our mentor Prof. Shivangi Mehta for her guidelines throughout the development phase of the website. She helped me, whenever we were stuck in the Full Stacks concepts.

We are sincerely thankful to all the people at Full Stack Development Labs who helped me complete the project in one way or the other.

They altogether provided me favourable environment, and without them it would not have been possible to achieve my goal.

Thanks,

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CH-1 INTRODUCTION

1. Introduction:

Taskify is a combination of methodologies and technologies that assist you with the planning, organizing, and scheduling everything that contributes to the success of a project.

As the number of users, who utilize this system continues to grow, web-based project management systems enter a critical role in a multitude of companies. Thus, a proper system plays a distinctive part in ensuring reliable, robust and high-quality web applications for customers.

Taskify is a software tool that helps you organize, manage, assign and schedule your project work to your colleagues.

It easily helps you to manage your projects and keep a track on projects and remind the task given and complete them

1.1 Project Overview:

Taskify is a software tool that helps you organize, manage, and track your project work and assign the work given by your colleagues. it's a whole system of tools, procedures, processes, and other features all built into the same platform. This is why it can be so helpful for people who are involved in multiple projects at once.

1.2 Objectives Of The Project:

The objectives of this project are:

- To develop a web-based system that will help to manage the projects to the peoples easily.
- To help the users having easy access to their projects at one particular dashboard

1.3 Scope Of The Project:

The scope of this project is as follows:

- This system helps user to manage all the task at one place
- The system will also generate insights of the project
- Level of Access:
 1. The administrator
 2. Customer

1.4 Technologies Use In Project:

Front-End Technologies: -

- React js
- JavaScript
- HTML, CSS

Back-End Technologies: -

- Node Js (For Connectivity of front-end to back-end)
- Express Js

CH-2 PROJECT MANAGEMENT

2.1 Project Planning:

Iterative Model

In the Iterative model, iterative process starts with a simple implementation of a small set of the software requirements and iteratively enhances the evolving versions until the complete system is implemented and ready to be deployed.

An iterative life cycle model does not attempt to start with a full specification of requirements. Instead, development begins by specifying and implementing just part of the software, which is then reviewed to identify further requirements. This process is then repeated, producing a new version of the software at the end of each iteration of the model.

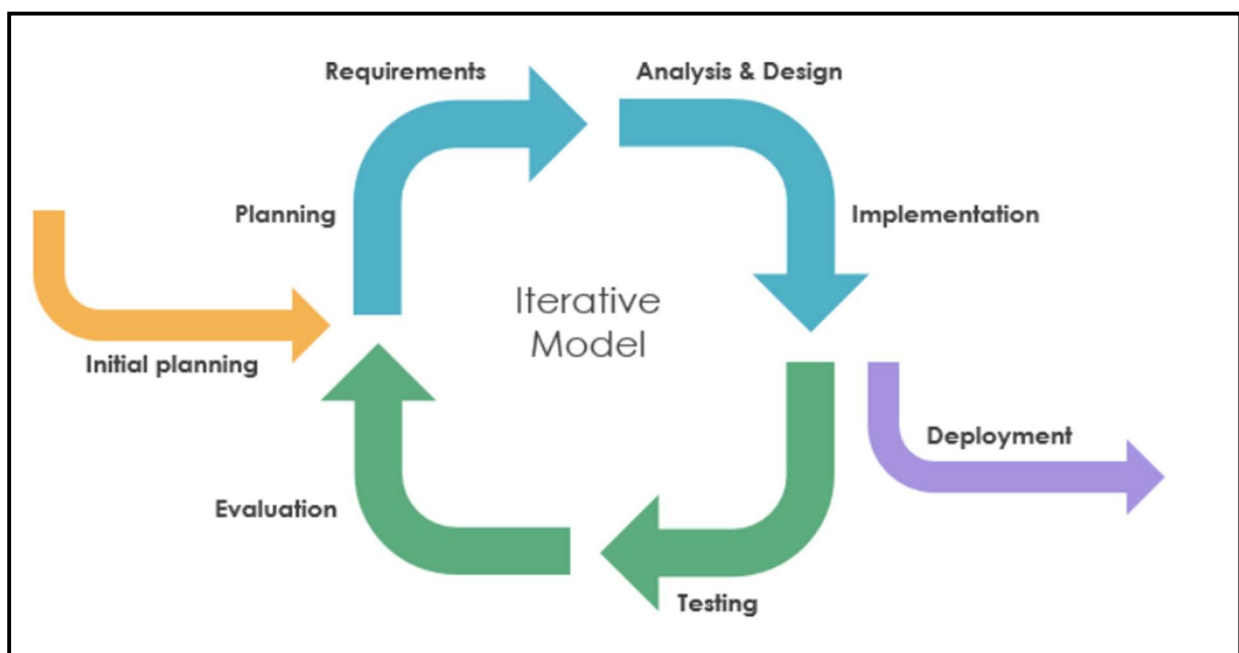


Fig 2.1: Iterative Model

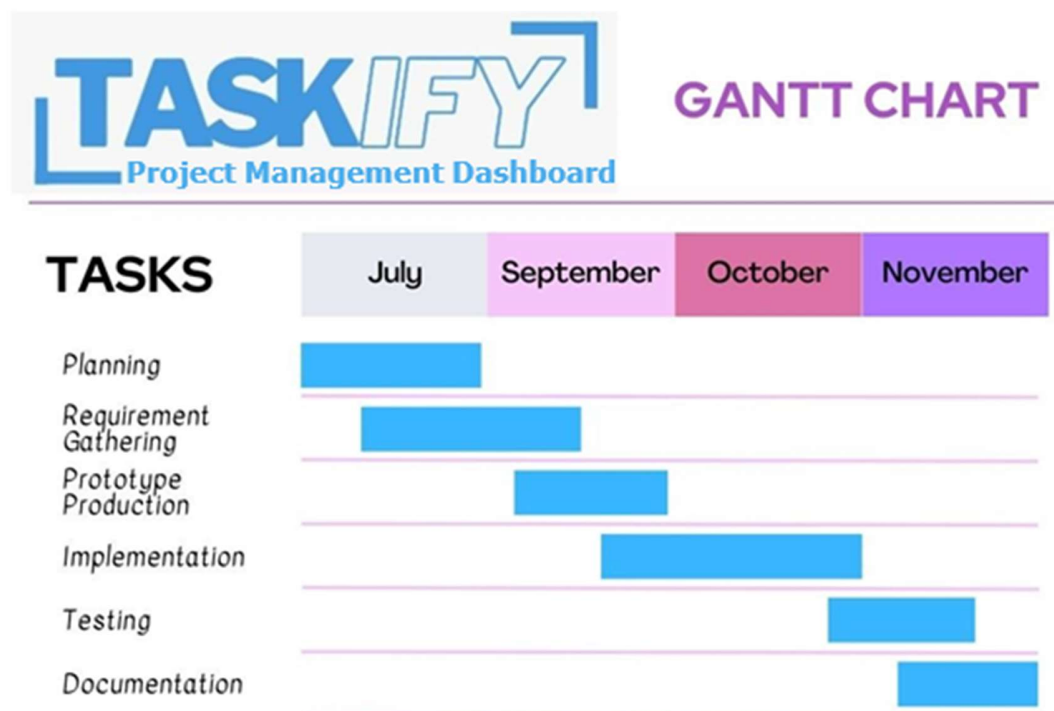
Iterative and Incremental development is a combination of both iterative design or iterative method and incremental build model for development. "During software development, more than one iteration of the software development cycle may be in

progress at the same time." This process may be described as an "evolutionary acquisition" or "incremental build" approach."

In this incremental model, the whole requirement is divided into various builds. During each iteration, the development module goes through the requirements, design, implementation and testing phases. Each subsequent release of the module adds function to the previous release. The process continues till the complete system is ready as per the requirement.

The key to a successful use of an iterative software development lifecycle is rigorous validation of requirements, and verification & testing of each version of the software against those requirements within each cycle of the model. As the software evolves through successive cycles, tests must be repeated and extended to verify each version of the software.

Gantt Chart



CH-3 SYSTEM REQUIREMENTS STUDY

3.1 User Characteristics:

3.1.1 Use Case Diagram:

In the Unified Modeling Language (UML), a use case diagram can summarize the details of your system's users (also known as actors) and their interactions with the system. To build one, you'll use a set of specialized symbols and connectors.

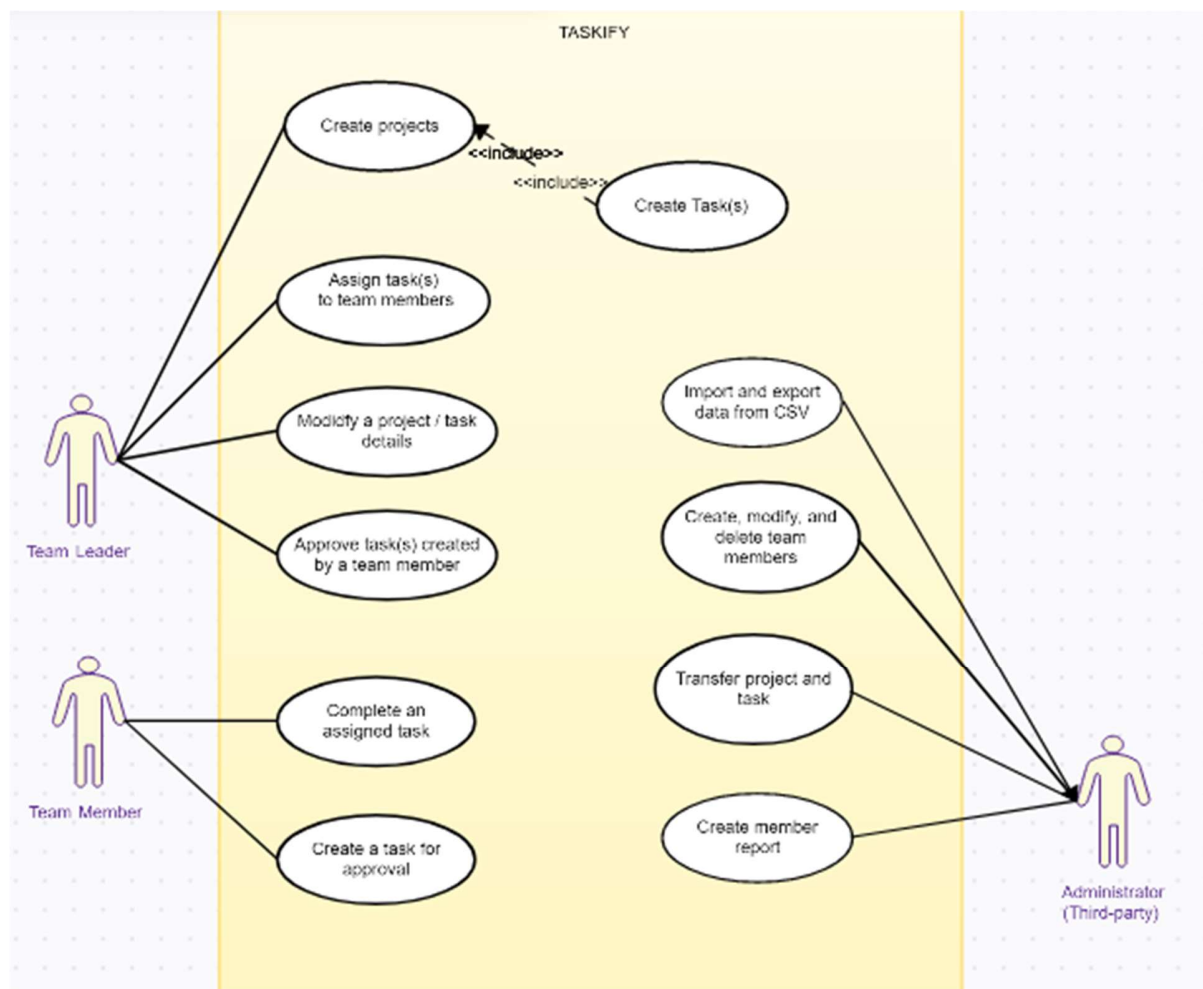


Fig 3.1: Use Case Diagram

3.2 Hardware and software requirements:

3.2.1 Hardware Specifications:

- INTEL CORE i3 or above
- 8 GB DDR4 RAM
- 4GB GRAPHIC PROCESSOR-NVIDIA
- ANDROID/IOS SMART PHONE

3.2.2 Software Specifications:

- WINDOWS 10 OS/MAC
- VISUAL STUDIO CODE
- NODE JS
- EXPRESS JS

CH-4 SYSTEM ANALYSIS

4.1 System Diagrams:

4.1.1 Entity-Relationship Diagram:

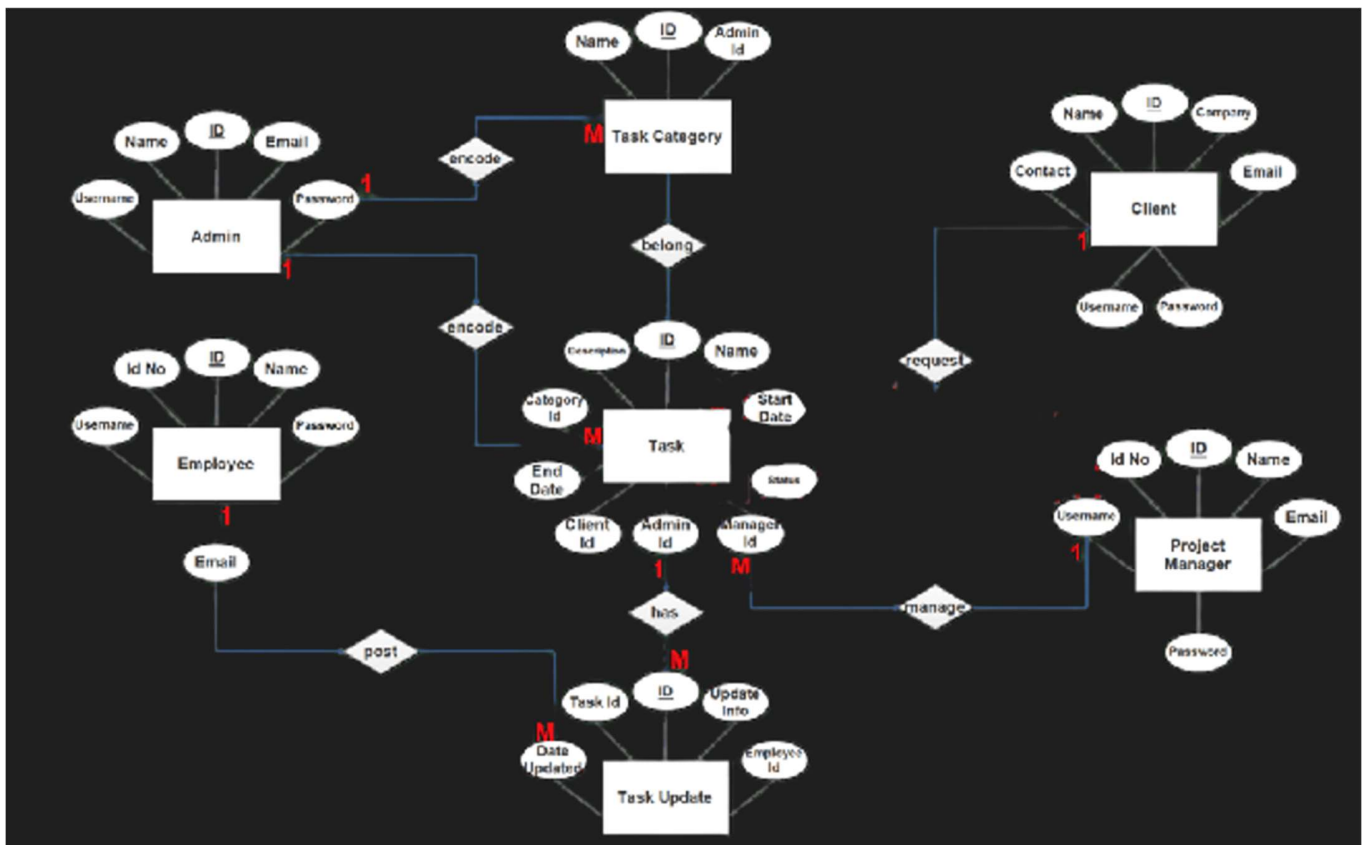


Fig 4.1: ER-Diagram

4.1.2 Class Diagram:

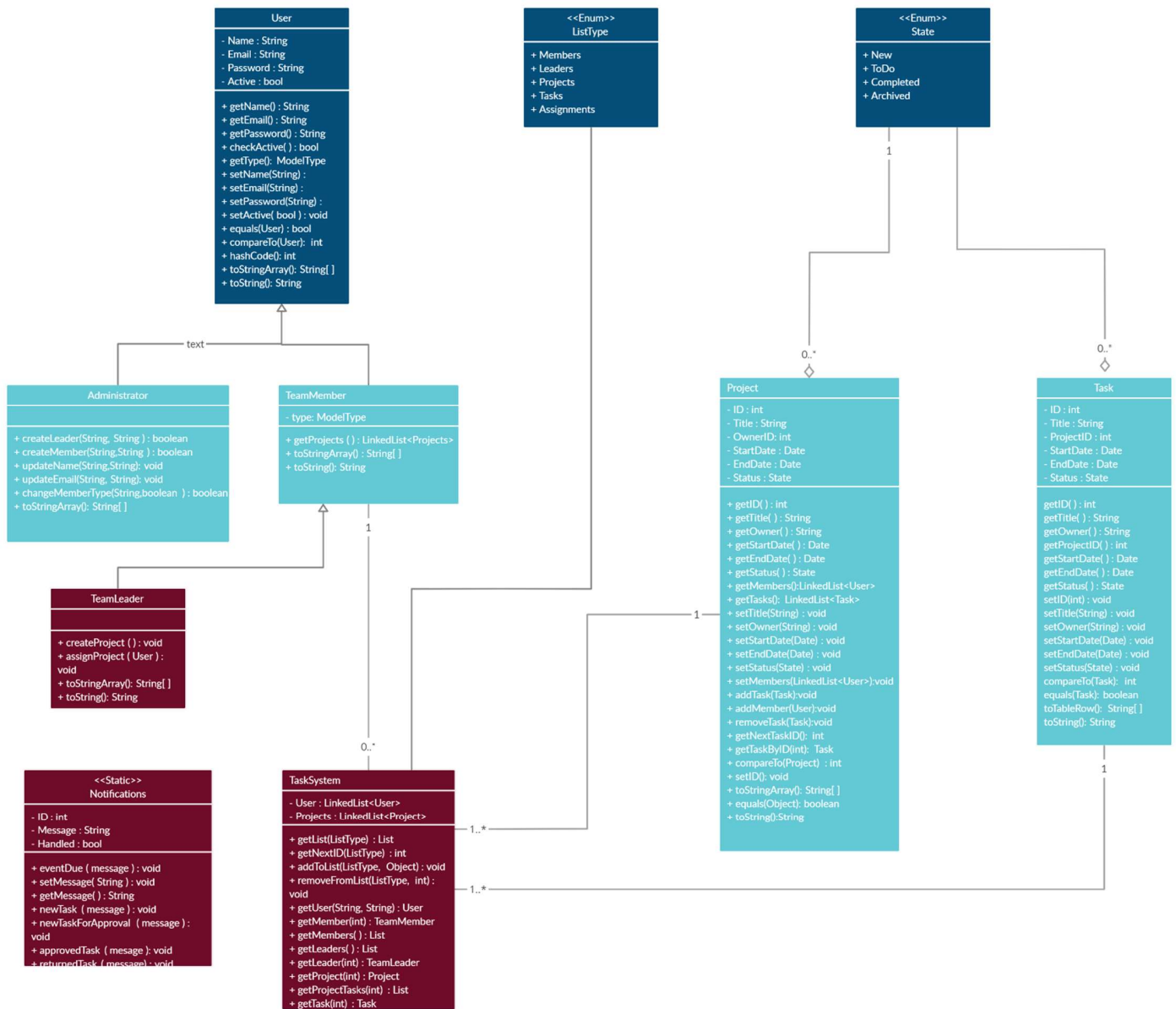


Fig 4.2: Class Diagram

4.1.3 Activity Diagram:

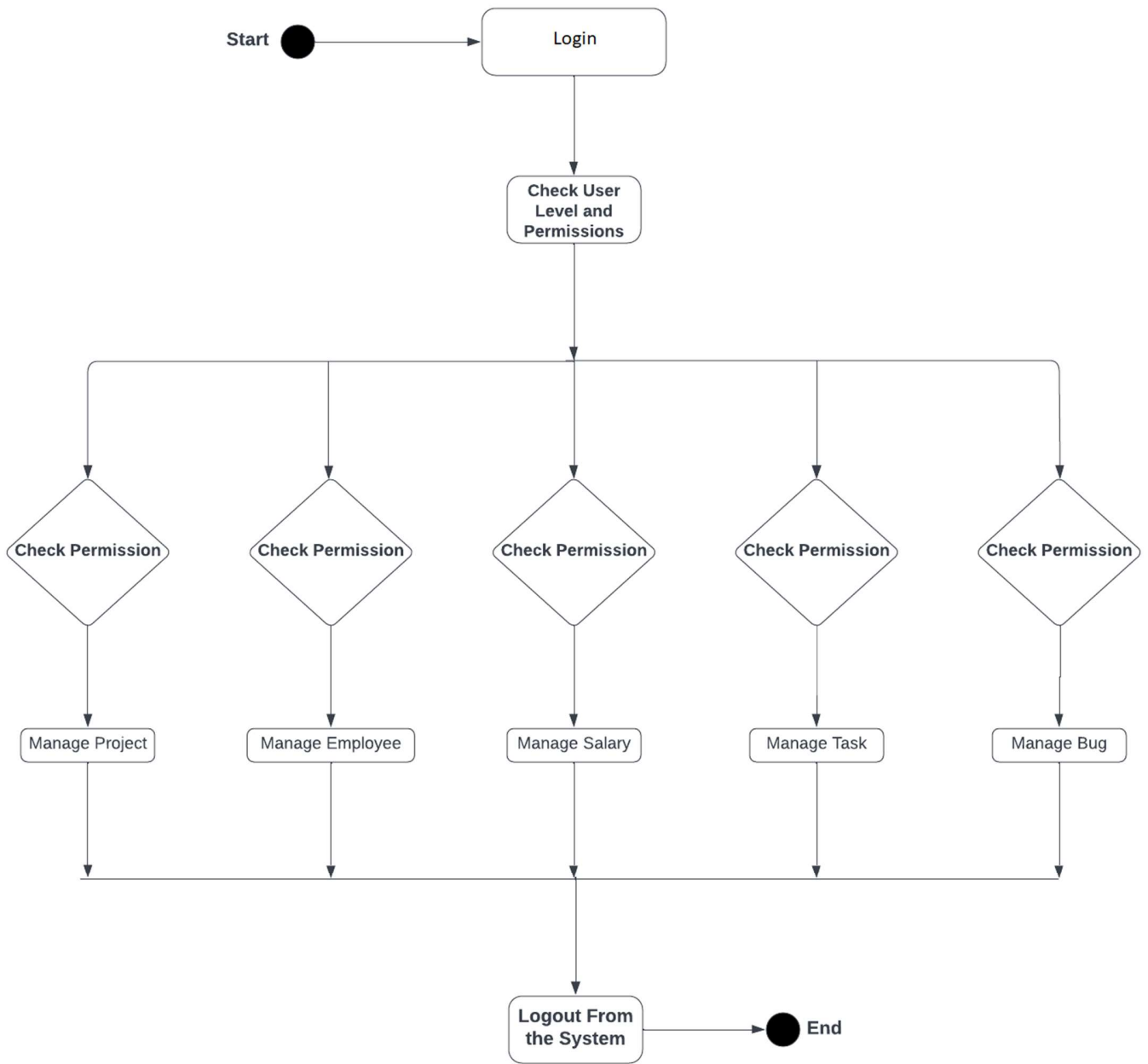


Fig 4.3: Activity Diagram

CH-5 SYSTEM DESIGN

5.1 Screen layout

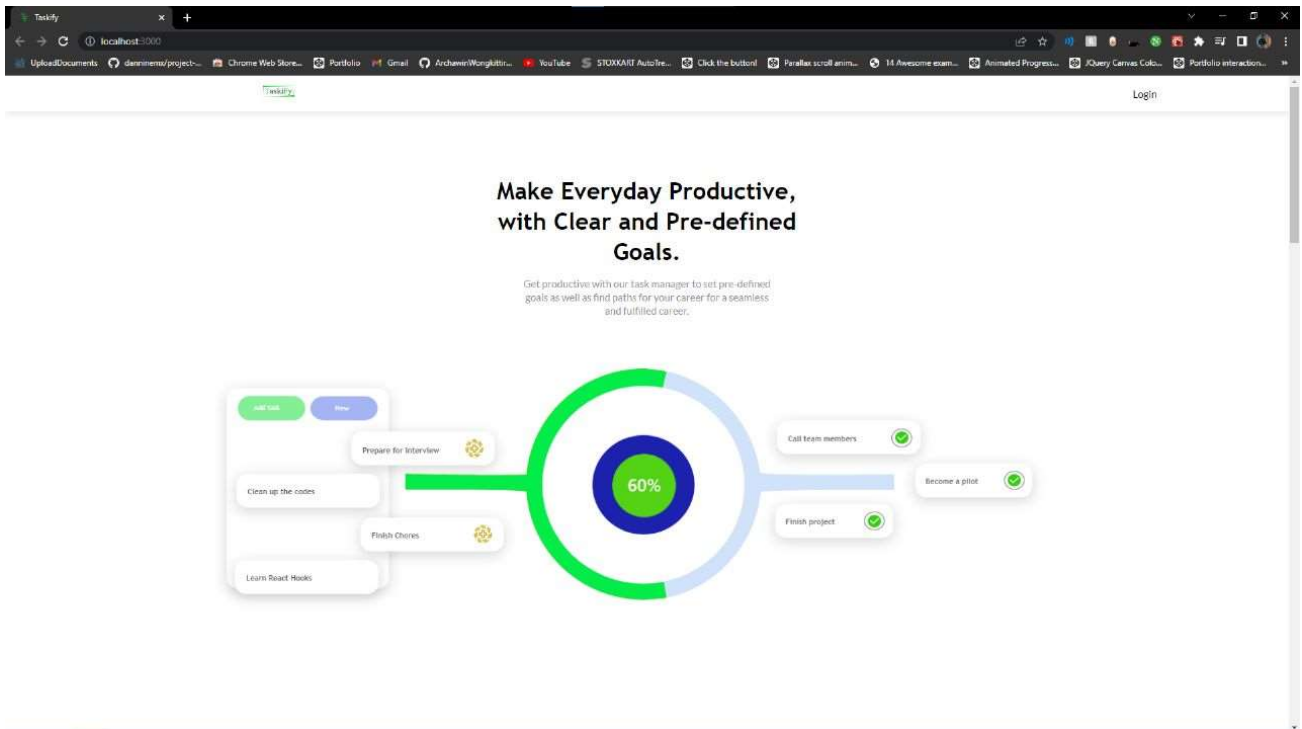


Fig 5.1: Home Page

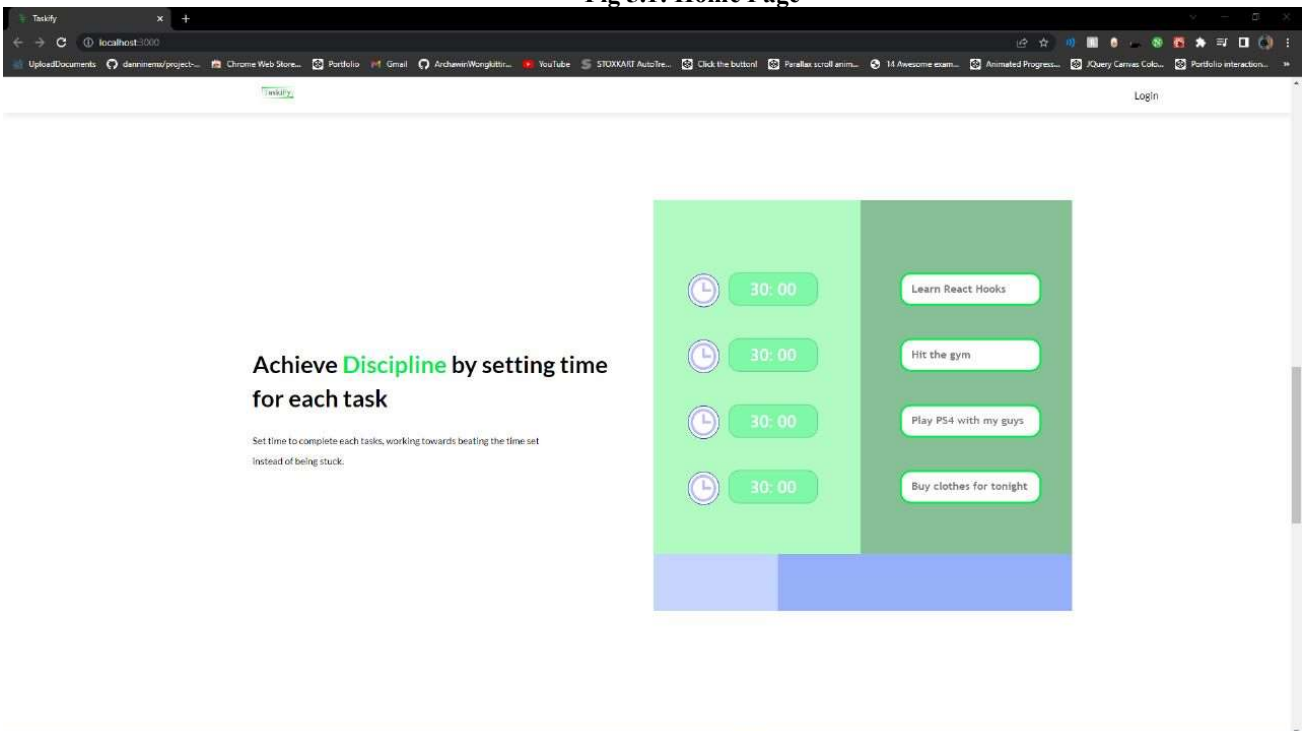


Fig 5.2: Home Page

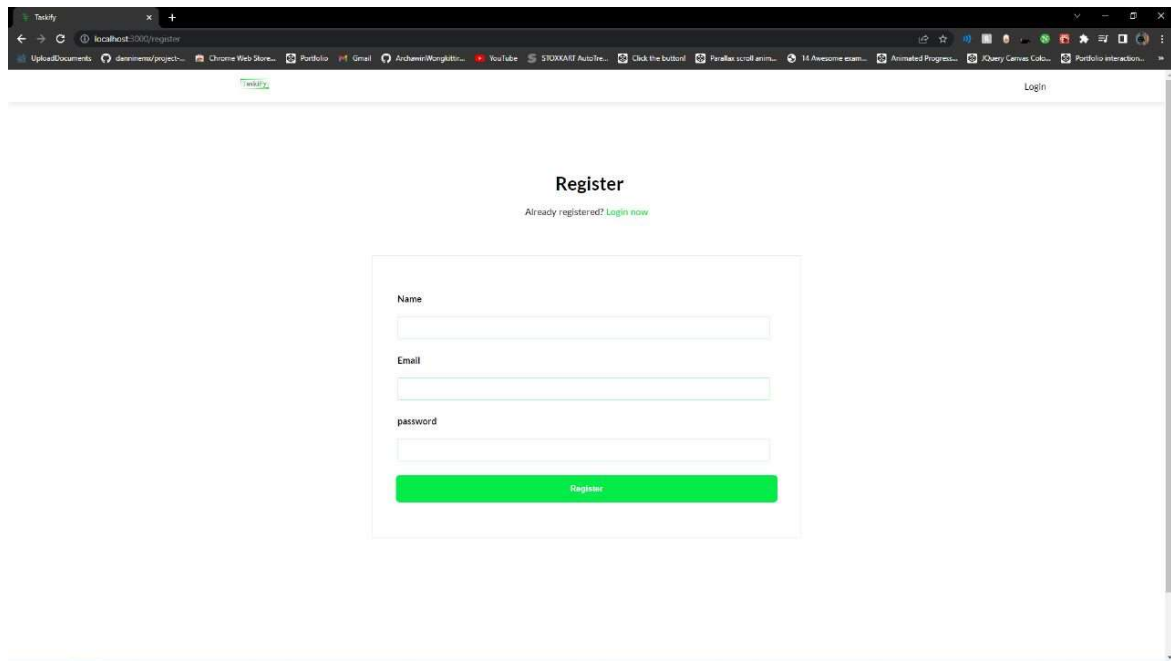


Fig 5.3: Sign Up Page

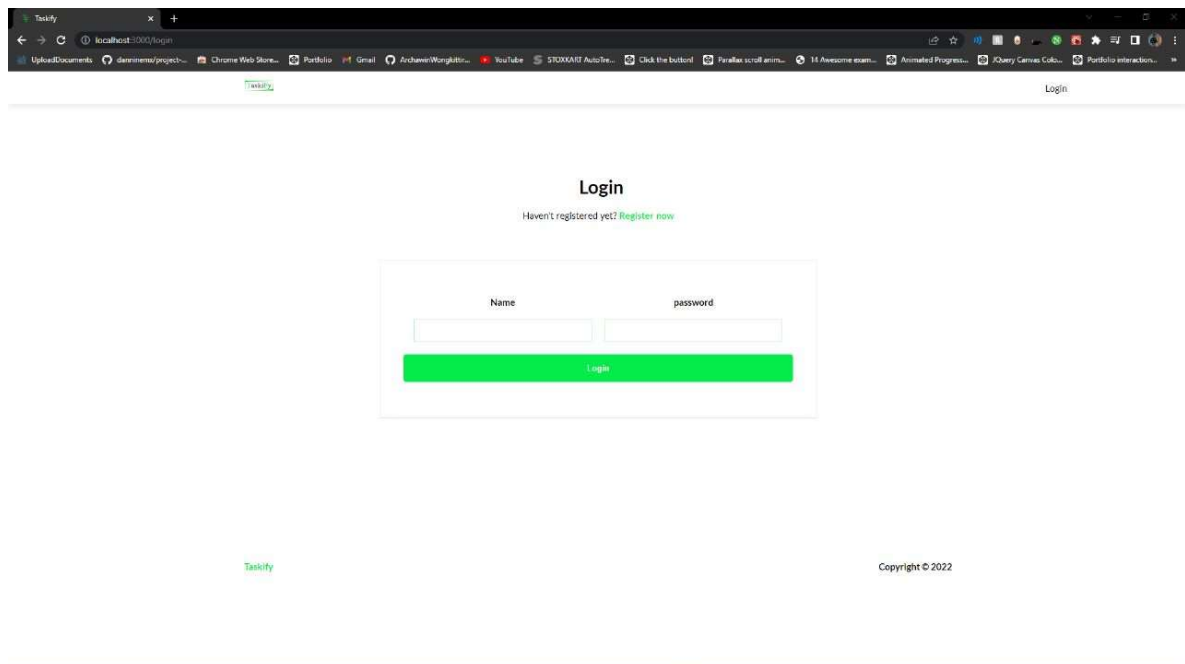


Fig 5.4: Login Page

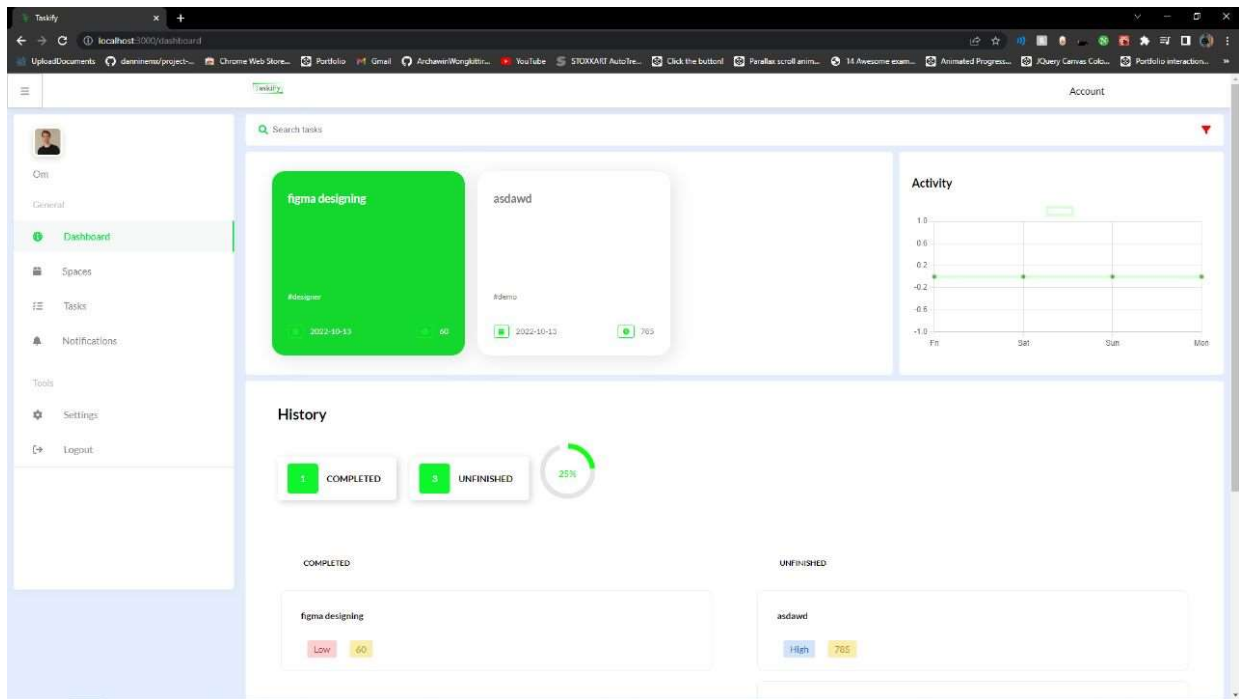


Fig 5.5: Dashboard

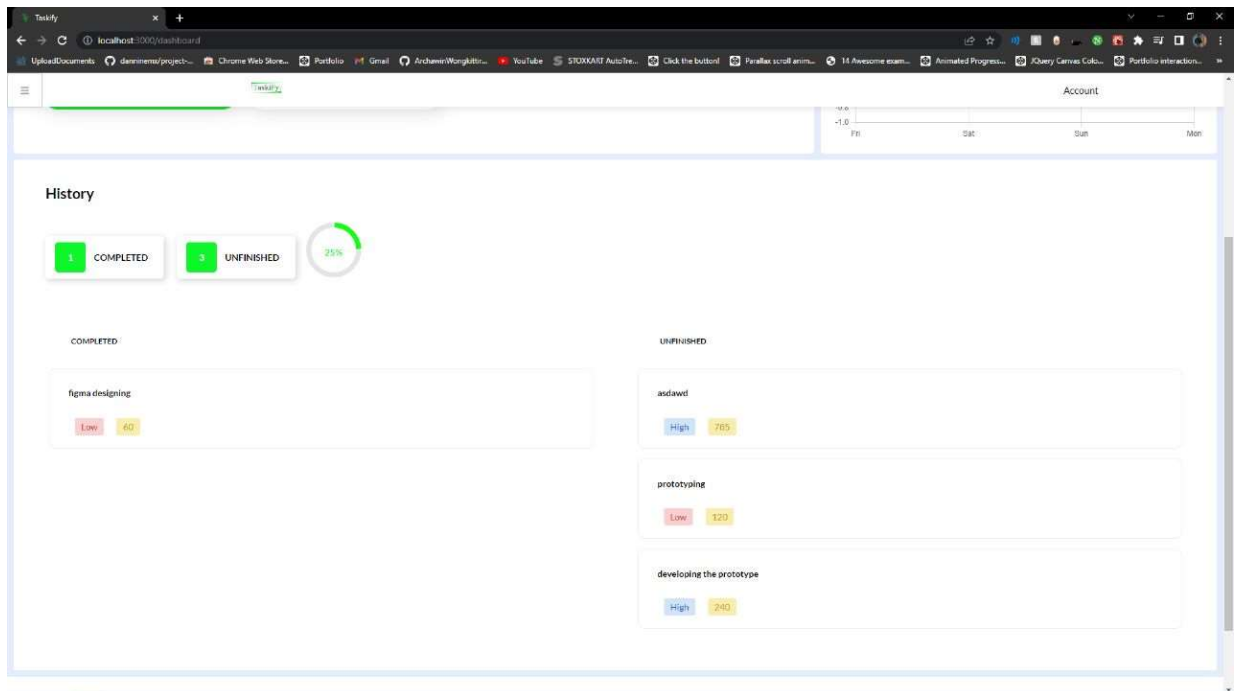


Fig 5.6: Dashboard

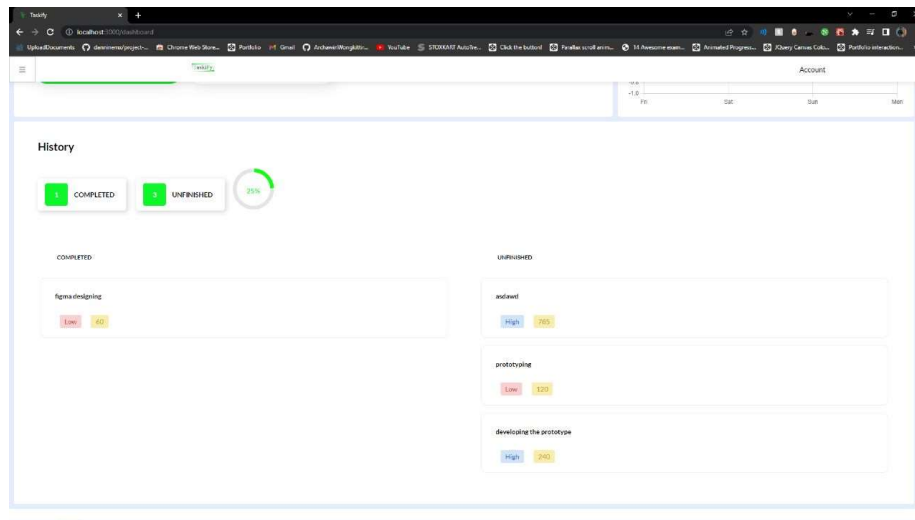


Fig 5.7: Spaces Page

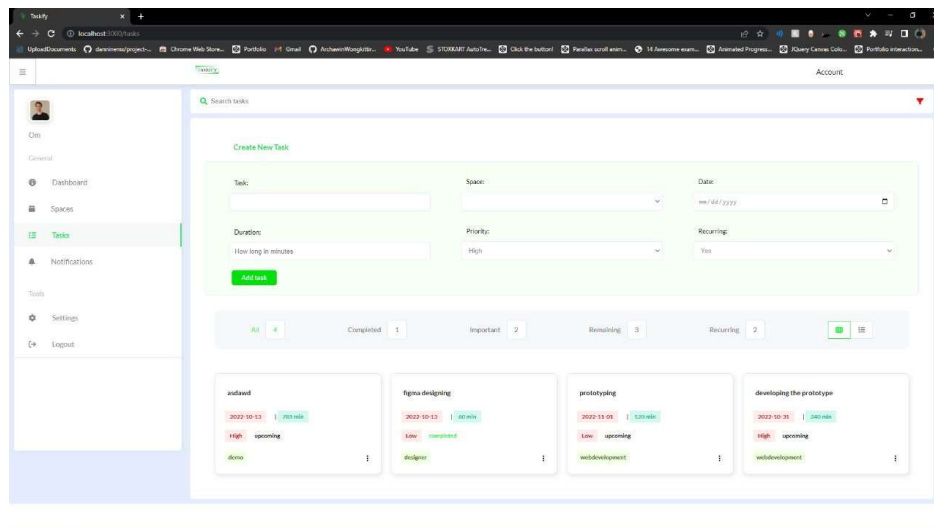


Fig 5.8: TaskPage

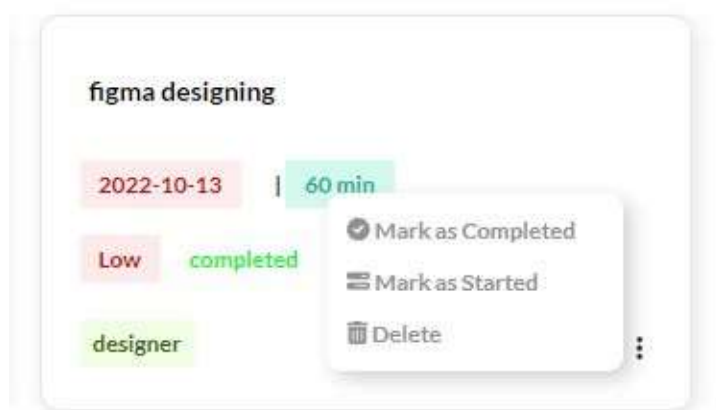


Fig 5.9: Task Assigning Page

CH-6 SYSTEM IMPLEMENTATION AND TESTING

6.1 Implementation Environment:

- VISUAL STUDIO CODE
- BROWSER CONSOLE

6.2 Coding Standards:

React Js

NodeJs

Mysql

6.3 Testing methods:

BUILDING AND RUNNING WEBSITE ON VARIOUS LAPTOPS, CHECKING IT'S PROPER FUNCTIONALTY IN EACH AND FIXING THE BUGS AND ERRORS.

6.4 Test Cases:

The unit testing done included the testing of the following items:

1. Functionality of the entire system as a whole.
2. User interface of the system.
3. Checking of the coding standards to be maintained during coding.
4. Testing the module with all the possible test data.
5. Verification and validation testing.
6. Testing of the functionality involving all type of calculations etc.
7. Commenting standard in source files.

CH-7 FUTURE ENHANCEMENTS AND CONCLUSION

7.1 FUTURE ENHANCEMENT:

Every Edition of a book comes with new topics and modifications if any errors are present. In the similar way, in near future, our application will overcome the flaws if occurred, and attains new features offered to employees for the Flexible and easy Transportation.

Following are the Enhancements to the application:

- Providing Good User Interface.
- Providing more insights

7.2 Limitations:

Requires Fast Network connection for accesibility of website and its Tools

Limited Data Provided to the users for storage Purpose

7.3 Summary of project work:

Prepared a website to make project work easy and have in-sights of it.

It will be useful to assign and complete a task and also keep a track on it . As the number of users, who utilize this system continues to grow, web based Taskify systems enter a critical role in a multitude of companies

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