Islamic University of Technology

Project Proposal for SWE-4304

Project Name : EnzOrg

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Introduction

Motivation

In modern times, we face issues with work management. To keep pace with increasing workload, we often fail to organize our time with the tasks. Sometimes lack of initiative and procrastination gets in the way of productivity. Which is why the need for a work management system feels obligatory.

What we propose

A platform where
→ We can organize work and projects.
→ Create and collocate custom tasks and projects.
→ Maintain pace with any scheduling.
→ Keep track of our work through notifications/deadlines.
→ Keep on top of things by prioritizing tasks

Key Features

The features to be implemented are:

1. **User login and sign up**
   Users can sign up and then log in to the website. This will be made possible via connection to the database.

2. **Adding and removing tasks**
   Users can add new or remove existing tasks. There will be a confirmation message before removing any tasks.

3. **Multiple tasks adding advantage for each project**
   Users will be able to create new projects. They can introduce additional tasks required for completing a project.

4. **Setting a deadline and sending notification via email**
   Each task will have a set deadline, which users will have to follow. Reminder notifications will be sent to the users, periodically via email.

5. **Track the progress of tasks**
   After completion of each task users can see their progress updated. It will be tracked by percentage.

6. **Define the priority for tasks**
   Users can define priority (such as high, medium, low) for a task and filter them out when needed.

7. **Interactive User Interface**
   The user will be interactive and very simple. The simple UI will make it easy for any generation to grasp and master the website.

Technologies

In our project we plan to use a number of different languages and services. These can be put under 3 main categories.
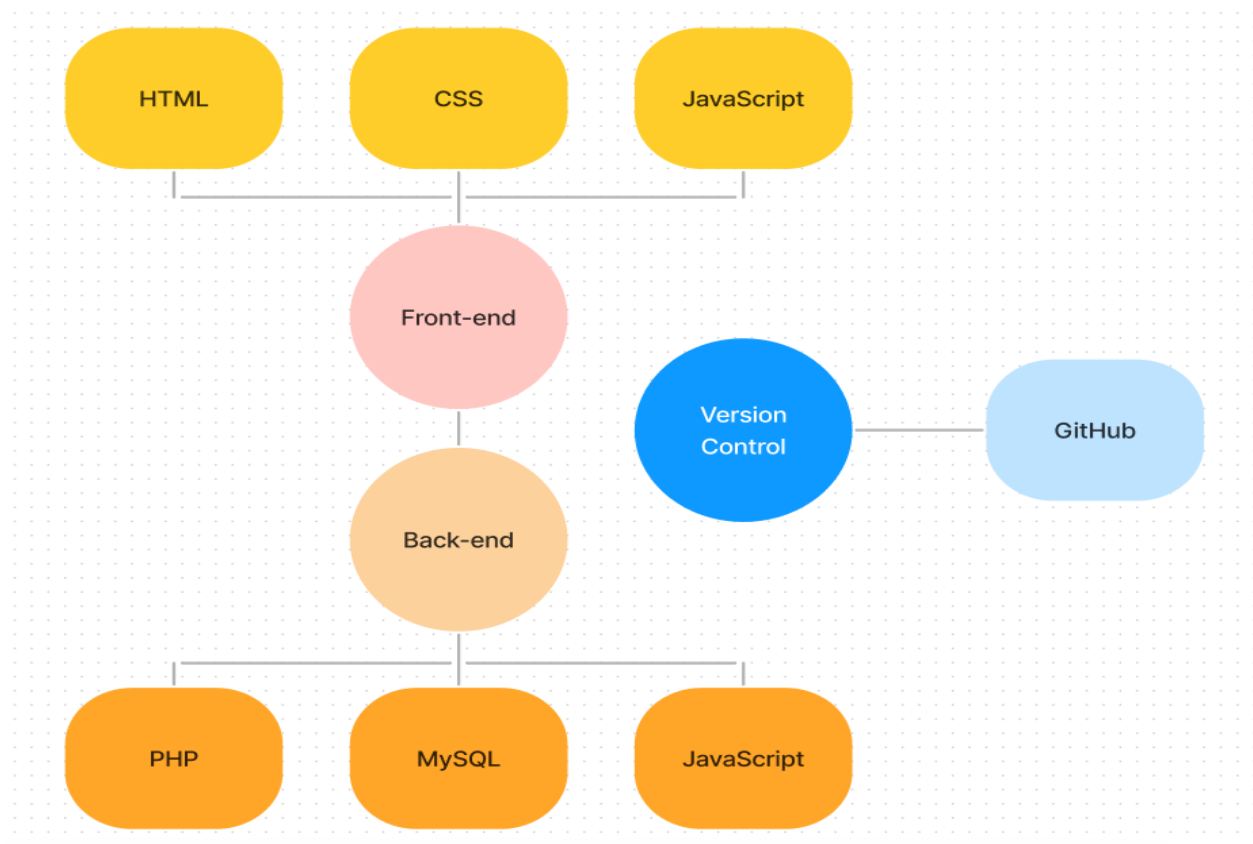
Front-end :
      For the overall user interface of our project, we will be using HTML5, CSS and Vanilla JavaScript.

Back-end :
      PHP and Javascript will be used to handle the back-end portion of the project. We will be using MySQL to deal with the database of the system.

Version Control :
      In order to have all three of us working together on this project, we will use the GitHub version control system.

Challenges

Implementation of certain features may prove to be difficult and hence pose a challenge. Such features are given below:

Roadmap :

There would be a separate webpage dedicated to describing all the tasks completed and all the tasks users have yet to complete in the form of a roadmap.

Access Hierarchy :

Users will have a different level of access to the tasks they can add/update/modify. Only some users will be allowed to create projects and assign tasks to others.

Dynamic Notifications :

Users will receive notifications dynamically, while using the website. It will help them keep track of the deadline while working on their project, when they don't have the time to check their emails.
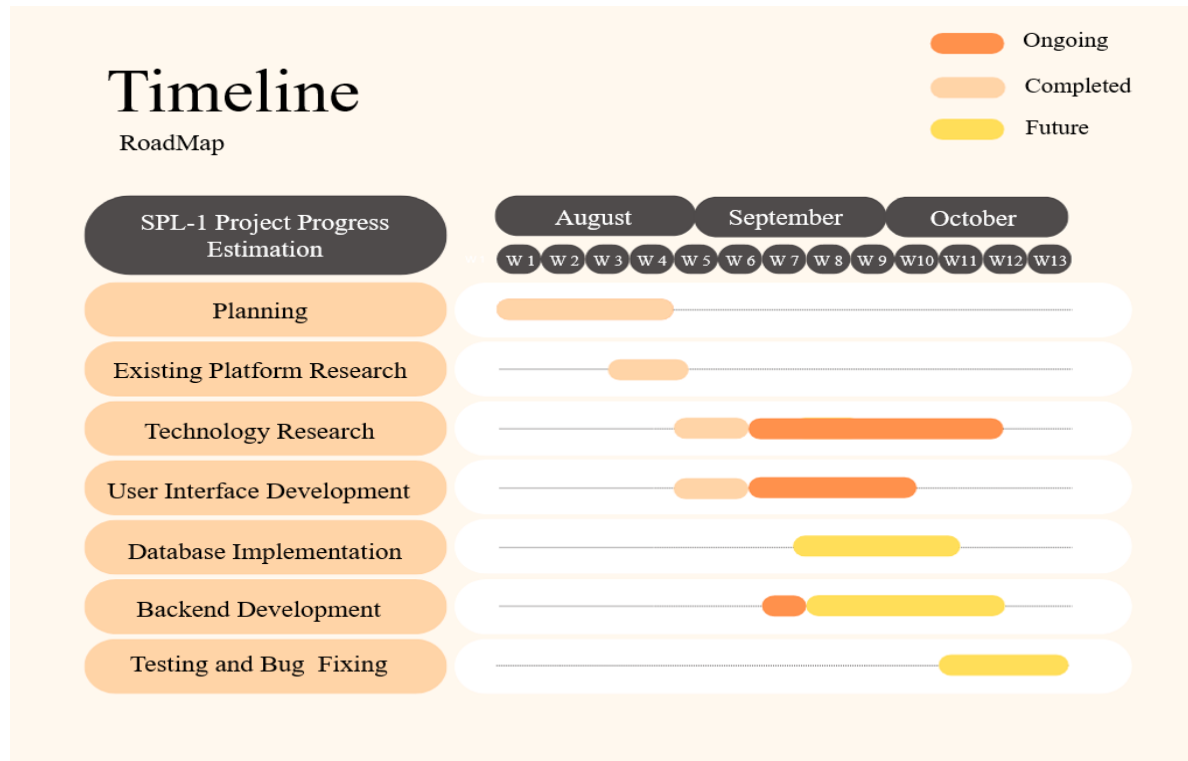
Group Collaboration:

Users can be allocated under a mutual project and they can see each other's progress on different tasks of that project.

Since they are not integral to the core functionalities of our website, we have decided to put the implementation of these features on hold for the time being. We will prioritize implementing all the key features first and then tackle these challenges head on if there is enough time.

Timeline

The Gantt Chart presenting the estimated progress of the project overtime:

It is subject to change based on the workload and any roadblocks we may encounter throughout the duration of the project.

Conclusion

Our project hopes to bring a fluid workflow in both personal and professional workspace. Therefore we expect to finish all the features within the provided timeline. Certain features or approaches may mimic the ones of existing platforms to make it easy for us to complete the project. However, implementation of such features will be purely out of our learning from the existing ones. In a nutshell, we hope our project will be fruitful in fulfilling the purpose of work management.