STcollab

Project Proposal

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13/06/2023

1.   Introduction

The proposed project aims to develop a collaboration website that will serve as a vibrant community for students and teachers. This platform will facilitate the registration of both students and teachers, enabling them to create profiles with relevant information such as their names, email addresses, educational institutions, and areas of expertise. By fostering an interactive environment, the website will provide a range of features to enhance collaboration and knowledge sharing among the users.

2.   Objective

The objective of this project is to create a collaborative website for students and teachers, fostering knowledge sharing and skill enhancement. It aims to facilitate discussions, project collaborations, and networking opportunities within the community. By providing project management tools, a messaging service, and search functionality, the platform aims to enhance user engagement and productivity. Ultimately, the project seeks to create a supportive environment where students can gain practical experience, build connections, and improve their employability.

3.   Problem Description

The idea is to bring students and teacher on a platform. Every student from different university have different mindset everyone have their individual skills, when they collaborate and work on something or just share something useful the resulting product will be different and unique and something big. Also there will be a lot of competition on freelance platforms that a new person gets work in ages so this platform can be useful to the students who are new in the market they can get work easily based on their skill set.

4.   Methodology

The proposed methodology involves utilizing HTML, CSS, JavaScript, PHP, Node.js, and MongoDB to develop the website. User registration and profile creation will be implemented to establish user identities. Discussion forums and notification systems will enable active engagement. A search feature will be incorporated for efficient information retrieval. Project management tools will be developed using suitable algorithms, while a messaging system will facilitate seamless communication. Rigorous testing and iterative development will ensure functionality and security.

5.   Project Scope

The project scope encompasses the design and development of the collaboration website, including user registration, profile creation, discussion forums, search functionality, project management tools, and messaging service. However, the project will not delve into specific technicalities such as the choice of communication media. Assumptions made include assuming a centralized system architecture and not considering advanced features like machine learning algorithms for content recommendation. The focus remains on creating a user-friendly and collaborative platform within the defined scope.

6.   Feasibility Study

    i.   **Risks Involved**: Potential risks include technical challenges, user adoption risks, and security vulnerabilities. Mitigation strategies involve rigorous testing, user feedback incorporation, and robust security measures.

    ii.   **Resource Requirement**: Computing resources, development expertise in relevant technologies, testing tools, and documentation resources are necessary for successful implementation.

7.   Solution Application Areas

The project holds significant value and targets the education and professional collaboration domain. It can benefit industries such as education, technology, freelancing, and startups. The platform enables students, teachers, and professionals to collaborate, share knowledge, and work on projects, thereby enhancing learning outcomes, fostering innovation, and facilitating efficient project management.

8.   Tools/Technology

MERN
- HTML, CSS and Javascript
- Express
- NodeJs
- Mongodb

9.   Expertise of the Team Members

The team members possess the necessary knowledge and skills required for the successful completion of this project. They have studied relevant courses and gained expertise in HTML, CSS, JavaScript, Node.js, and MongoDB. The project aligns with the interests of all team members, ensuring their equal commitment and enthusiasm towards its completion.

10.   Milestones

Project Initiation and Planning: This phase involves gathering project requirements, defining project scope, and creating a detailed project plan. It includes tasks such as conducting user research, creating wireframes and design prototypes, and finalizing the project timeline.

Front-end Development: This milestone focuses on implementing the user interface using HTML, CSS, and JavaScript. Tasks include designing and developing the website layout, navigation, user registration, and profile creation functionalities.

Back-end Development: This milestone involves implementing server-side scripting using PHP and setting up the database management system using MongoDB. Tasks include developing the discussion forums, search functionality, project management tools, and messaging service.
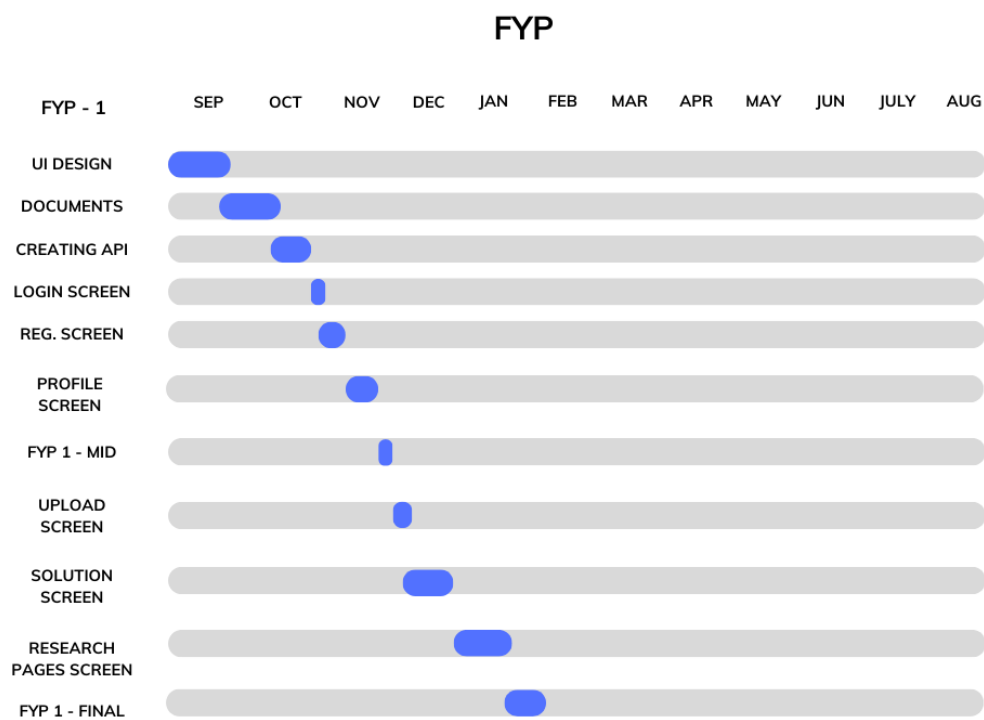
Integration and Testing: This milestone focuses on integrating the front-end and back-end components, testing the functionality, and identifying and resolving any
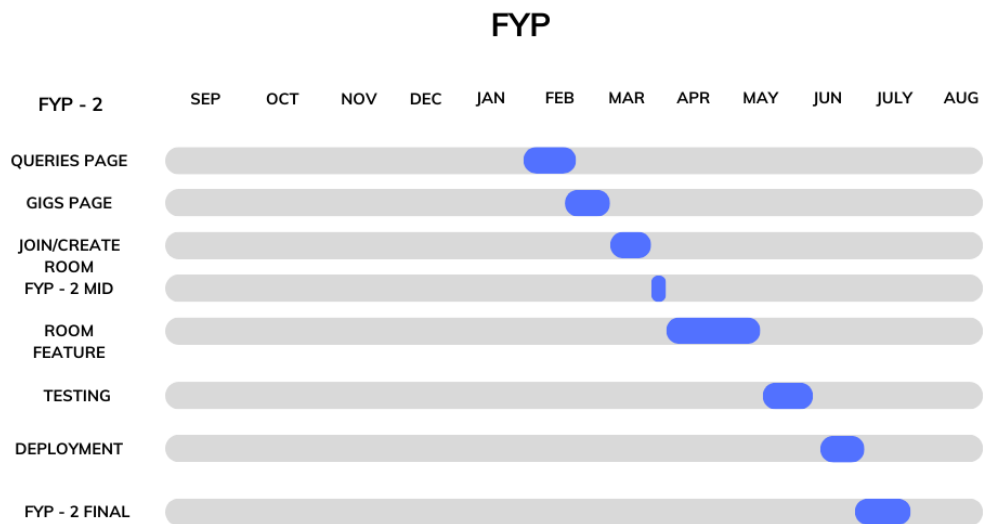
bugs or issues. It includes tasks such as conducting unit tests, integration tests, and user acceptance testing.

Deployment and Launch: This final milestone involves deploying the website on a hosting platform, configuring the server environment, and ensuring the website's readiness for public use. It includes tasks such as domain registration, server setup, final testing, and the official launch of the website.

These milestones serve as major checkpoints in the project timeline, allowing for proper tracking and monitoring of progress throughout the one-year project duration.

11. Project Schedule

FYP

| FYP - 1 | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JULY | AUG |

FYP

QUERIES PAGE

GIGS PAGE

JOIN/CREATE
ROOM

FYP - 2 MID

ROOM
FEATURE

TESTING

DEPLOYMENT

FYP - 2 FINAL

12. References

NO REFERNCES