

LearnThings
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Project Proposal

COMP1682

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1. Overview

According to current statistics, most students are now self-studying at home and online because the epidemic situation is extremely stressful. Some people want to study at home, but they want to connect with other friends. There are people who would love to start their lessons with study groups where they can ask questions and find answers to what they need. For learning, studying together and studying in groups is always more effective than studying alone. For the search for learning materials, we always have to think about how to find the correct answer. While we can search for answers through friends, social networks, but all are almost zero when all are not in the same major.

Because of that, I had an idea for creating a place where you can learn together, you can answer questions. Maybe it will help you study with friends from all over the country. So learning and finding materials is not one of those difficult things for everyone. Based on the initial model, there will be Rooms for users to join with the major that you have registered under the account. There you will find study groups with the right focus, participate in learning in those groups, and can interact with each other. Moreover, group study and group work will become easier when the whole group helps one person instead of finding the correct answer by yourself.

Initially, this project will be designed as a website, people register and log in via their own Email and choose the major they want to study. After successful registration and login, you will see groups of each major, including rooms for you to study in groups. Groups for you to learn and find documents and accompanied by chat groups to exchange with each other.

2. Aim

With this project, build and develop a learning society across the country, looking for like-minded study friends. Find study materials and participate in learning together through study groups. Ensure the development of the ability to work in groups and learn, increase self-confidence and desire to learn.

3. Objectives

3.1 Research

3.1.1 Research the Room Study

The demand for learning is increasing day by day. The demand for group study and learning on social networks is still limited in many ways. Searching for information on the internet but sometimes finding your own information takes a long time and is difficult to find

3.1.2 Studies how to create Web Room Study

I first learned the ways to build a user-friendly interface and had to keep the design clean and simple and clear enough to attract learning enthusiasts.

Refer to the documentation and available pages about the functions needed to create the project

3.1.3 Writing to Literature review

After consulting related documents and researching to find solutions for my project reports. Based on the information and index of the participants.

3.1.4. Complete the report

After completing all the research and development of the stub project, I will complete the final part of my report.

3.2 Design Website and Build Website

3.2.1. Design Website Section

Before starting to design and build the project. First need to build a main structure diagram, model and especially wireframe. Mockups are used to show how the project framework will be developed and designed. To start drawing mockups, I used balsamiq as a modeling tool for the project. Next, the basic user interface will be designed and the main functions of the application will be attached. Review the positions and functional information to see if there is any need to add or subtract to make appropriate adjustments before starting to build this project.

3.2.2. Build Website

The first will use a database called MongoDB to store data about user accounts, and necessary information of users when joining and data obtained. Then use ReactJs to design the interface and do the functionality. To run and work the function used NodeJs.

3.2.3. Test Website

After completing the main functions of the website it will be about 75%. I will do the testing and give a review and fix if something goes wrong with those key functions,

3.2.4. Finish Website

After completing the entire project and successfully building the website, I will produce the best version of the website and provide the best user experience.

4. Legal, Social, Ethical and Professional issues

After finishing everything, I will participate in project defense. First, I will comply with all provisions of the law on intellectual property, so I will be protected by law to avoid fake websites in the future. In addition to relating to user information through account registration. The rest in all respects, I will not disclose any information to anyone to protect users to the maximum. Ensure users peace of mind and a great experience. I will always plan for the future on project maintenance and debugging to ensure user information and user experience is always excellent and to avoid information leakage.

- Law: I will comply with all provisions of the law on intellectual property, so I will be protected by law to avoid fake websites in the future
- Morally: In addition to relating to user information through account registration. The rest in all respects, I will not disclose any information to anyone to protect users to the maximum
- Socially: Ensure users peace of mind and a great experience. I will always plan for the future on project maintenance and debugging to ensure user information and user experience is always excellent and to avoid information leakage.

5. Framework or Any Methodology used

My project is a rather complex one that revolves around 3 core functions. For my project approach, I will use the Scrum framework to control the project. Scrum has a development process through successive segments called Sprints, so I can break the project into small sprints so that I can prioritize completing the most important sprints in a period of time and then move on continue to another sprint, that will save me a lot of time and more focused in the process of completing the project.

6. Planning

I will create a board plan of my work project.

Task	Duration	Start	End	The Person Performing	Status
Research	3 month	10/7/2021	10/10/2021	Huynh Mac Tu Khoa	Complete
ReactJs and NodeJs	6 month	10/7/2021	10/01/2022	Huynh Mac Tu Khoa	Started
Research on Room online	2 weeks	11/10/2021	26/10/2021	Huynh Mac Tu Khoa	Started
Design	3 weeks	1/11/2021	22/11/2021	Huynh Mac Tu Khoa	Started
UX-UI	3 weeks	1/11/2021	22/11/2021	Huynh Mac Tu Khoa	Started
Database Design	2 week	23/11/2021	06/12/2021	Huynh Mac Tu Khoa	Started
System Main	3 month	27/11/2021	27/02/2022	Huynh Mac Tu Khoa	Started
Front – End	Not	Not	Not	Huynh Mac Tu Khoa	Not
Back – End	Not	Not	Not	Huynh Mac Tu Khoa	Not
Security	Not	Not	Not	Huynh Mac Tu Khoa	Not
Testing	Not	Not	Not	Huynh Mac Tu Khoa	Not
Test with user	Not	Not	Not	Huynh Mac Tu Khoa	Not
Checking Last	Not	Not	Not	Huynh Mac Tu Khoa	Not
Write the final report	1 month	28/2/2022	29/3/2022	Huynh Mac Tu Khoa	
Complete Final	Not	Not	Not	Huynh Mac Tu Khoa	Not