TED UNIVERSITY

CMPE491

Senior Project 1

Peer Education

Project Proposal

Group – 3

Submission Date: 28.10.2023

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1. INTRODUCTION

We have observed numerous times in ourselves and our social environment that students and people who are willing to learn have problems about accessing notes and course contents. We believe that taking notes is very important and we encourage students to take note. Because taking notes in class makes it easier for students to learn the topics covered in class. By taking notes in class, students not only create a resource for their future studies, but also actively listen to the lesson so that they can get the key points explained in the lesson while taking notes. In addition to writing down what is taught in class, students also take the information they learn from various sources in their individual studies and synthesize it with their own thoughts. In this way, notes go beyond just memorizing information and help to fully comprehend and internalize the subject. By putting together pieces of information, students have the opportunity to understand contexts and analyze them in depth. Thus, they contribute to making the learned information meaningful and permanent. Every student needs the notes of the course he/she takes in one way or another, students want the notes of their lectures. However, not every student is keen on taking notes. The main reason for this is that taking notes is a time-consuming task. Writing down the information in the books and various examples in notes takes a long time, and this is not a situation that every student welcomes. We want to build a web application to solve this problem. Students around the world will be able to share their notes about a specific course with other students by uploading them to the platform, and they will be able to download the lecture notes that students have already taken and shared on the platform. In this way, students will be able to get maximum benefit from the courses they take at the university.

1.1 DESCRIPTION

The main purpose of Peer2Share is to help people to find lecture notes related to the course he/she is looking for. In the main page there will be a sign in form. They will sign in with their university email and password that they created for signing in to Peer2Share website.

After they signed into the website if they want to upload their lecture notes they will be able to upload it by filling in a course form which includes lecture name, reference for the note that intended to upload, which teacher taught this course.

Users can search for the course they want to learn, choose the one they want and download the content. Also, users can comment and rate the content they like/dislike. Interaction between the person who shared the content and person who downloaded the content is enabled in the comment section.

1.2 CONSTRAINTS
- Peer2Share is a web application.
- Visual Studio Code will be our development environment.
- Network connection is required to use Peer2Share.
- Github, Python, HTML5, CSS3, JavaScript, React as a front-end framework, NodeJS will be in our tech stack.

1.3 PROFESSIONAL AND ETHICAL ISSUES

Peer2Share is a web project. Such as any web application, we need to ensure security of our application. Users will register to our app with their email and password. It is necessary to protect users' data against malicious people.

We aim for users to upload some types of files that contain lecture notes/content. We need to block malicious files or irrelevant files for user experience. For this, we will enable users to report content with various options.

2. REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

- Users will register on the website using their credentials such as email and password.
- Users should have the ability to edit and update their profiles with personal information, including name, contact details, and educational background.
- Users will be able to upload their lecture notes to the platform. They will provide lecture notes in pdf format, lecture name, book that used in the class, lecturer's name, and name of the teacher.
- Users who choose to "get lecture notes as an email" will receive a notification.
- Users will be able to like/dislike a specific lecture note upload.
- Users will make comments on specific lecture notes uploaded.
- Users will like/dislike comments on specific lecture note upload.
- Users who took the lecture will be able to send lecture notes. If the user has not taken a specific course, they cannot share notes to related courses.

2.2 NON-FUNCTIONAL REQUIREMENTS

- The system will be user-friendly.
- Users must be connected to the internet to reach the system.
- User passwords will be stored in an encrypted format within a database.
- The system is easy to maintain, upgrade and troubleshoot.
- The system is accessible 7/24 with minimal disruptions and errors.

3. REFERENCES

- https://www.acm.org/code-of-ethics
- https://onix-systems.com/blog/your-treasure-map-key-benefits-of-having-a-project-specification
- http://biorob2.epfl.ch/pages/studproj/birg66475/Project%20specifications.pdf
- https://atarim.io/blog/how-to-write-project-specifications/