COSC 4P02 - Project Proposal

Group Members:

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Github: https://github.com/J-Rawes/Knotes

Objective:

Students who miss lectures lose access to comprehensive notes. Hand-written notes are also easy to lose track of and hard to share. It can also be difficult to determine the quality of notes you receive and if they accurately encapsulate the content of the lecture. Also, some students have disabilities and require notetakers to assist them in their courses.

With this project, we aim to address these challenges by creating a comprehensive solution: "Knotes", where class notes can be uploaded, digitized, organized, and shared. This allows students to convert hand-written notes into documents to be collaboratively shared to deepen their understanding of the material from their classes. Shared notes can be titled and tagged based on their subject and institution to help students find notes for the subject they are looking for. Shared submissions can be liked by users which can help to prioritize showing higher quality submissions to those searching.

This project is vital in improving the accessibility and preservation of hand-written notes and helps to foster a collaborative environment. By converting hand-written notes into text, it allows students who miss class to easily review what they missed to prepare for the next class. Digitized notes can also be used in combination with digital accessibility tools like text-to-speech and screen magnifiers allowing them to reach a wider audience. The digital format is also a longer-lasting medium than paper which can be easily lost or damaged.

To complete this project, we will be taking an agile approach with 6 sprints over the course of the development cycle. Our goal is to have our logic and features run on Python along with packages that have yet to be determined. For our back end, we will be leveraging tools such as NodeJS, SQL, Javascript, and PHP

Schedule:

For this project, we will be meeting every Tuesday morning from 10:00 am until 11:00 am to discuss our progress. In conjunction with supplemental meetings, the team will be meeting and discussing tasks often.

Roles:

We have selected Jackson as the scrum master, and Nathan as the product owner, with everyone else acting as developers.

We have split the group work as follows:

Group Members	Responsibility

Jackson and Nathen	Image processing, Image conversion, Backend tools, server setup
Ares, Connor, and Owen	Logic, Database, User management
Ryan	Front end, UX, UI

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