Simply Online

An online classroom

Overview

Simply Online is a web application that aims to simplify the process of online classes.

This application allows lecturers to create classrooms and share the class Id. Students can join the classroom by searching by the classroom id.

Lecturers can simply take attendance on a button click. Attendance will be automatically marked using facial recognition.

Technologies used

Front-end will be implemented using **React**.

To enable video calls and screen sharing, **WebRTC** technology will be used. WebRTC server will be used to support group conference calls.

Backend APIs will be created using **Python**

MySQL will be the database

Face detection and face recognition model will be implemented using **CNN** and **Tensor Flow**

WebRTC

WebRTC stands for Web Real-Time Communications, and it is a technology standard that enables real-time communication between web browsers and other devices without the need for additional plugins or software

WebRTC reduces latency in video and audio sharing as there is no middleman to communicate between two browsers.

Sprint 1

Did research on project selection and architecture of the project

Created Jira backlog and sprint planning tasks.

Research on WebRTC and implementation of group video conference calls

Added UI and backend projects in git repository