

Team 06 - Fleetwood Stack

Conductor App

Isheta, Melvyn, Tej, Austin, Akshay, Jared, Siri, Patryk, Adam, Tongke, Alex, Lei, Junjie

Statement of Purpose

The Conductor app is a collaborative platform designed to help instructors, TAs, tutors, team leads, and students manage course-related activities like scheduling sessions, organizing groups, sharing materials, and tracking participation. The goal is to create a lightweight, user-friendly, and accessible system that is acceptable to all stakeholders. The Conductor app aims to reduce administrative overhead and improve transparency across teaching teams with the goal of allowing the class to run smoothly and giving staff more time to focus on teaching and mentorship.

User Personas

Instructor

Oversees multiple classes and teams. Needs structured tools to manage groups, monitor progress, and keep records organized. Values simplicity, documentation, and minimal dependencies.

Teaching Assistant

Manages several student teams. Needs fast access to group info, attendance, and participation records. Aims for consistency and fairness in evaluations.

Tutor

Provides on-demand help during labs. Needs a system to manage student requests and highlight frequent issues for self-learning.

Team Lead

Leads small project teams. Needs a shared space to organize meetings, track attendance, and record notes about team performance and dynamics.

Student

Participates in teams and wants transparency in attendance and progress tracking. Needs simple tools to share availability and reflect on learning.

Proposed Features

User Management

Handles user registration, authentication, and role-based access.

Integrates Google OAuth for secure sign-in and manages permissions across the platform.

Class Directory

Displays all users, courses, and teams in one searchable list.

Allows filtering by role or class and connects shared data across other features.

Attendance System

Tracks attendance for each session through check-ins linked to user roles and class data.

Designed to be reliable and easy for instructors to review.

Work Journal

Lets students record daily progress, blockers, and reflections.

Summaries help instructors monitor engagement and identify common challenges.

Wireframe - Figma

Home Page (Not Logged in)

Fleetwood Stack Directory Attendance Journal Evaluation Log In

Welcome to CSE210

Content here

Directory Page

Fleetwood Stack Directory Attendance Journal Evaluation

Search by Name or Role

Name	Role	Contact	Availability
FName LName	Group N		
FName LName	Group N		
FName LName	Group N		

Attendance Page - Input Rows

Fleetwood Stack Directory Attendance Journal Evaluation

Meeting date: / / Meeting type: Lecture Informal

Sort ...

FName LName	Group N
FName LName	Group N
FName LName	Group N
FName LName	Group N

Work Journal Page

Fleetwood Stack Directory Attendance Journal Evaluation

Journal Entries

Entry 1	Entry 2	Entry 3
Entry 1	Entry 2	Entry 3
View	View	View
Entry 4	Entry 5	
View	View	

Activity Log

Fleetwood Stack Directory Attendance Journal Evaluation

Activity Admin Search by Name or Role

Name	Activity
FName LName	Voted in poll <link> Reacted with 🌟 Raised Hand 🙋 Had a question: "What does Farley mean by iteration?"
FName LName	Submitted in-class assignment: Quiz Scheduled an appointment for MM/DD/YY Submitted reflection paper: Farley Chap. 3 Had a thought: "Farley is wrong about Incrementalism..."
FName LName	Voted in poll <link> Had a question: "When do we get our teams?" Submitted reflection paper: Farley Chap. 3 Raised Hand 🙋

Home Page (Logged in)

Fleetwood Stack Directory Attendance Journal Evaluation

Welcome <Name>

Role: <User Role>

Permissions	View	Edit	Delete
Attendance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Directory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Journal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Evaluation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Risks & Rabbit Holes

General

- Scope creep by adding unnecessary features
- Too many basic features, not enough depth
- Underestimating 5-week timeline

Feature 1 – User Management

- Roles deleted without clearing linked entries
- Users bypass checks via API or URL edits
- Unencrypted tokens expose Google accounts

Feature 2 – Class Directory

- Overly complex design with too many dependencies
- Integration issues with shared APIs or UI components
- Accessibility or privacy inconsistencies

Risks & Rabbit Holes

Feature 3 – Attendance System

- Data not syncing between frontend and backend
- Unauthorized visibility of attendance data
- Time zone inconsistencies
- Server outages during check-in window

Feature 4 – Work Journal

- Low user adoption due to complex inputs
- Poor handling of emotional sentiment discourages honesty
- Private notes visible only to author
- Process must stay simple and quick to fill

Timeline

Week	Milestone	Dates for Completion (Thursday of each week)
5	Planning - Design - Setup	Oct 30
6	Backend - Foundation for each Feature Frontend - HTML + Views for each Feature	Nov 6
7	Write Unit Tests and Documentation (Complete unfinished tasks)	Nov 13 Midpoint Presentation
8	Work on API routes, connect frontend with backend	Nov 20
9	Integration Testing & UI Polishing	Nov 27 Deploy
10	Revisit, Finalize and Work on Presentation	Dec 4 Code freeze
11	Prepare Presentation	Dec 11 Final Presentation