The Lesson Summary Generator

Project Summary

The Lesson Summary Generator (LSG) is a tool for a user (likely an instructor, teacher, or a tutor) to create a list of students and list of concepts the instructor will cover. The user can then use a form to enter a student's performance on homework, the concepts covered during the lesson, and assignments for the next lesson. Using that form, LSG will create summaries using OpenAI. Ultimately, these summaries can then be modified or edited for clarity or length as needed.

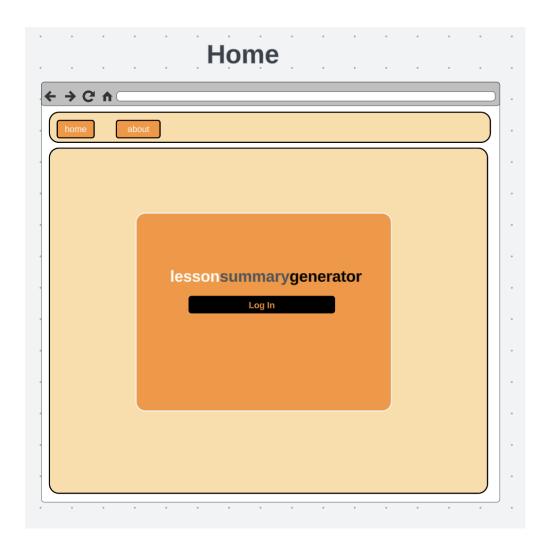
Technologies Used

- 1. Django
- 2. OpenAl

Project Planning Overview

Link to Trello Board

Wireframes:



Concept Index



Concept Form Page



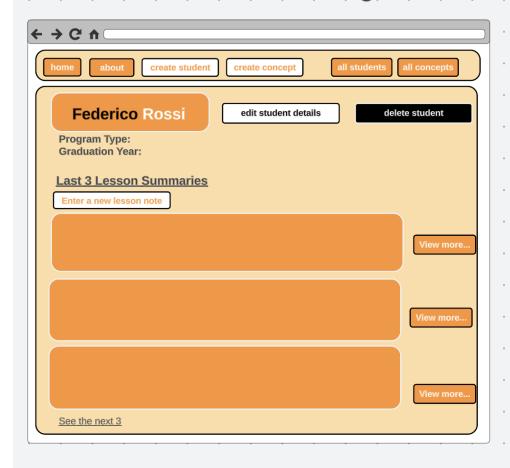
Student Form Page

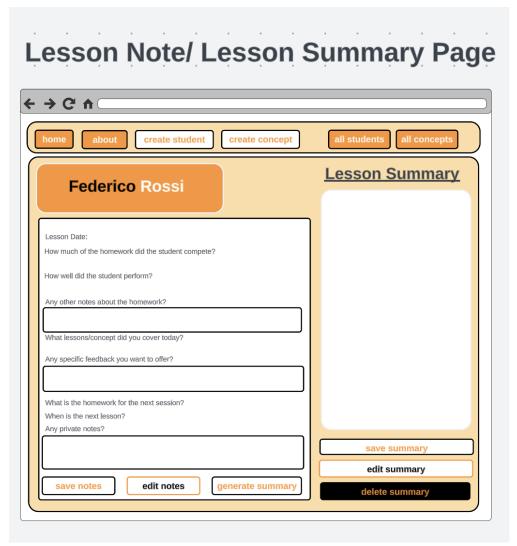


Student/Index



Student Detail Page





Link to Wireframes

Relevant Links:

Link to GitHub Repo

Link to OpenAl API Documentation

Models

Instructor	Type Of Data
instructor_id	id
first_name	CharField
last_name	CharField

Student	Type of Data
student_id	id
last_name	CharField
graduation_year	DateField
program_type	TextField

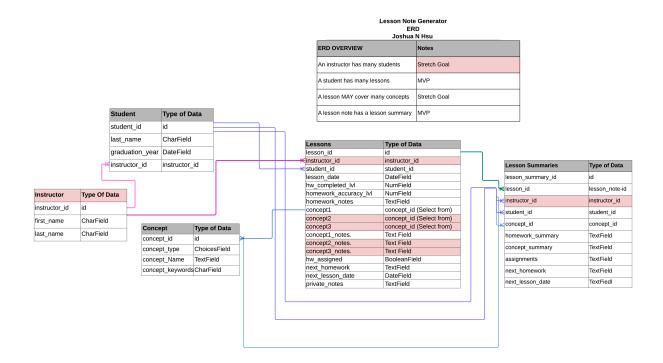
Concept	Type of Data
concept_id	id
concept_mame	CharField
concept_description	TextField

Lessons	Type of Data
lesson_id	id
instructor_id	instructor_id
student_id	student_id
lesson_date	DateField
hw_completed_lvl	NumField
homework_accuracy_lvl	NumField
homework_notes	TextField
concept1	concept_id (Select from)
concept2	concept_id (Select from)
concept3	concept_id (Select from)
concept1_notes.	Text Field
concept2_notes.	Text Field
concept3_notes.	Text Field
hw_assigned	BooleanField

Lessons	Type of Data
next_homework	TextField
next_lesson_date	DateField

Lesson Summaries	Type of Data
lesson_summary_id	id
lesson_id	lesson_note-id
instructor_id	instructor_id
student_id	student_id
concept_id	concept_id
homework_summary	TextField
concept_summary	TextField
assignments	TextField
next_homework	TextField
next_lesson_date	TextField

Basic ERD:



Routes

Lesson Summary Generator Routes

User Stories:

There are four layers to the stories: concepts, students, lesson notes, and lesson summaries.

(A) Concepts

- As a user, I want to be able to add a concept (alongside a description of that concept) to a list that I will later reference in my lesson notes.
- As a user, I want to be able to edit the title or description of that concept or delete the concept (and any associated content).

(B) Students

- · As a user(AAU), I want to be able to add a student to my student list
- AAU, I want to edit the students details.
- AAU, I want to view a list of all my students.
- AAU, I want to view the details of a specific student and any lesson summaries associated with that student.

(C) Lesson Notes

- AAU, I want to view a form where I can quickly summarize my impressions of a lesson, including a student's performance on homework, the concepts covered during the lesson, and the student's assignments for the next lesson.
- AAU, I want to be able to save and edit that form.

(D) Lesson Summaries

- AAU, I want to be able to use the saved note to generate a three-paragraph summary,
 highlighting the student's homework performance, the concepts covered, and assignments.
- AAU, I want to save that content to the student's page.
- AAU, I want to be able to edit and update that summary.
- AAU, I want to be able to delete both the lesson summary and corresponding lesson note.

Stretch Goals:

- 1. OAuth that allows for multiple instructors
- 2. Adding Subtopics with their own distinct keywords for Concepts
- 3. Refactor template components into React
- 4. Adding grammar, tone and style buttons that can prompt the LSG to revise summaries based on the preferences of the instructor and needs of the student's families
- Adding calendar widgets to date settings

Links to documentation for Stretch Goals:

- 1. OAuth
- 2. Calendar Widgets