Application Purpose:

The primary purpose of the application is to improve the completion rate of the courses offered by MOOC platforms. By understanding the completion patterns of individual users, MOOC platforms can tailor interventions and support mechanisms to address specific barriers to completion faced by different learners. This personalized approach enhances user engagement, motivation, and overall satisfaction with the learning experience, ultimately leading to higher completion rates and improved outcomes for both learners and the platform. The primary objective is to investigate how such dynamic formats, coupled with strategically placed knowledge checkpoints, can enhance the learning experience for individual users.

Audience:

Individuals seeking to enhance their learning and improve their course completion rate for online MOOC platforms.

Key Features:

- Interactive mode
- Feedback
- Login/Signup
- Rewards
- Course offerings
- Course Detail View

Setup Instructions:

Step 1: Git clone https://github.com/KevinChittilapilly/Final-Project-Yourdemy.git

Step 2: Front-end setup:

- Navigate to the path \frontend\yourdemy in the clone repo using the command

    >> cd frontend

>> cd yourdemy

- Run 'npm install' to install the required packages
- Run 'npm start' to start the front-end of the application

Step 3: Back-end setup:

Installations should be done as per the requirements.txt file. For setting up and running the django db backend server

>> cd backend

- pip install –r requirements.txt
- python manage.py makemigrations
- python manage.py migrate
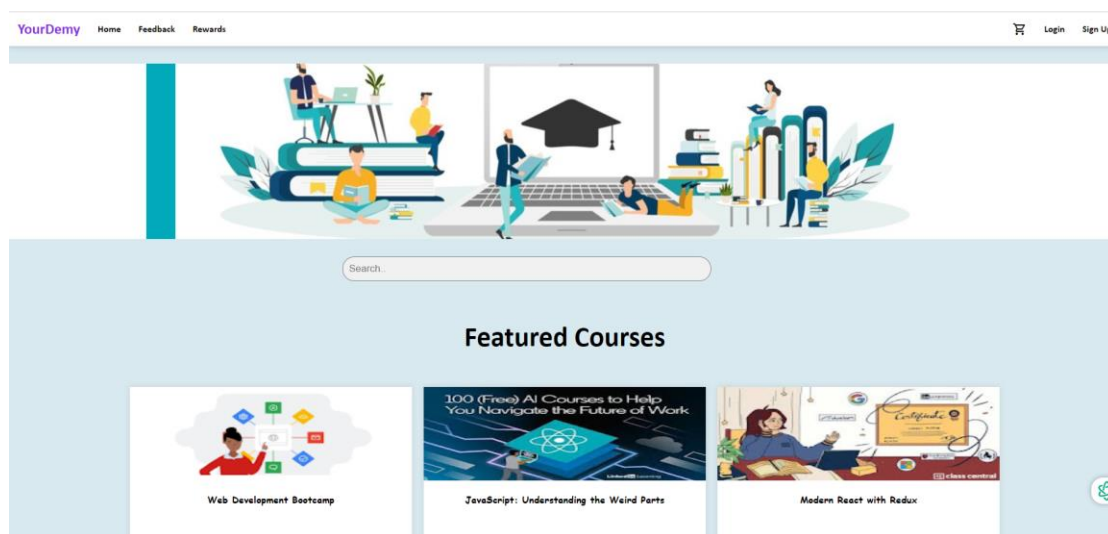- python manage.py runserver

Main Features:

- It starts with the user signup, while signing up we provide the option to the user whether they want the interactive mode to be 'ON' or 'OFF' with a toggle switch. We provided the context of interactive mode then and there using the tooltip.
- We save the interactive mode information with the user profile to open the app layout according to the user's preference.
- Next time, when the user logs in, they will see the interactive mode on (if selected). According to the research articles, we have selected some of the predefined video chunk lengths and quiz locations.
- Based on the user's choice, the course will incorporate those changes. It will take a pause at the selected video chunk length and ask whether you want to continue or take a break. This way, the user will be focused according to their attention span and consume the course better.
- Based on the user's choice for quiz placement, the quiz will be shown, end of lecture, end of section or end of course. It will make the user understand whether they are consuming the content well, if not, they can start over with the lecture again.
- Unauthorized users are unable to access the course, feedback, rewards page and interactive mode.
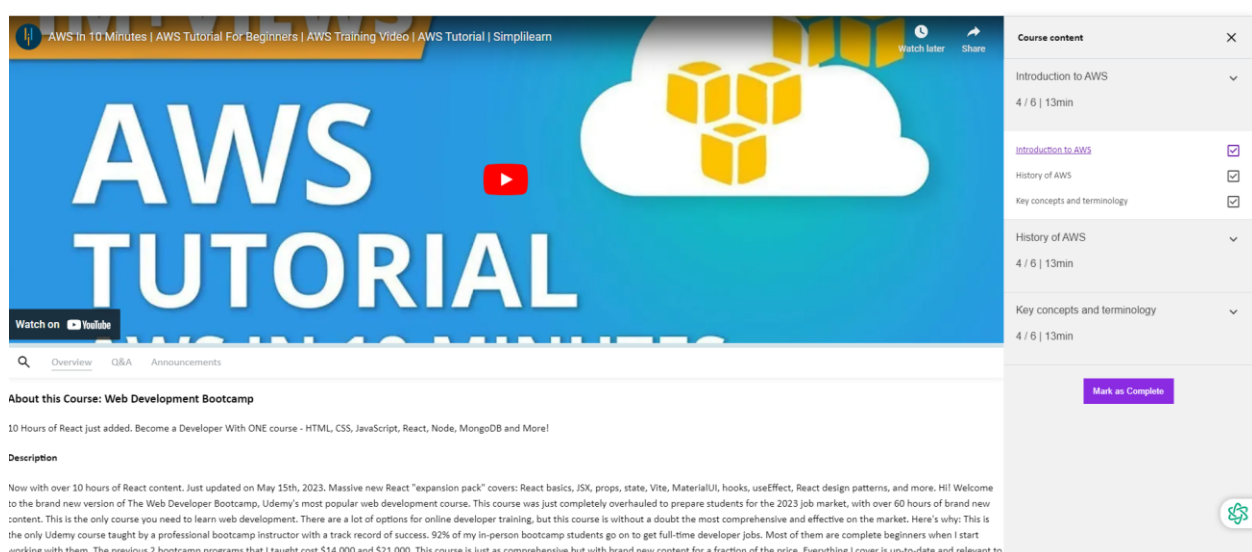
- We have created a scalable system where a huge number of courses can be added, and any number of sections and lectures can be accommodated in each course. It is scalable in terms of active users and registered users as well.
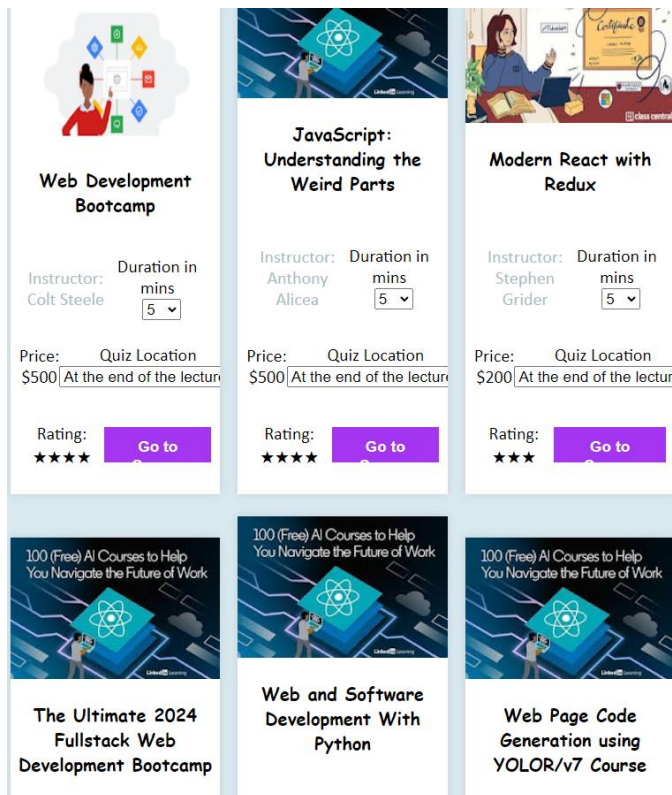
Interactive Mode Scenario:

When the user is authenticated, select the first course which demos the interactive mode

And go to the course detail page, which looks like the below:

Web Development Bootcamp

Instructor: Colt Steele

Duration in mins: 5

Price: $500 | Quiz Location: At the end of the lecture

Rating: ★★★★ | **Go to**

JavaScript: Understanding the Weird Parts

Instructor: Anthony Alicea

Duration in mins: 5

Price: $500 | Quiz Location: At the end of the lecture

Rating: ★★★★ | **Go to**

Modern React with Redux

Instructor: Stephen Grider

Duration in mins: 5

Price: $200 | Quiz Location: At the end of the lectur

Rating: ★★★ | **Go to**

The Ultimate 2024 Fullstack Web Development Bootcamp

Web and Software Development With Python

Web Page Code Generation using YOLOR/v7 Course

Simulating Duration Popup

For the first course, you can select the Duration and Quiz Location. Although, the Duration mentions in minutes, we realized this might be harder to visualize. Hence we changed it to seconds.

Once u start the video, you should be able to see the popup window recommending you to take a break once your set duration is reached.

Simulating Quiz Location

1. Go back to the home page by clicking the logo Yourdemy
2. Select the location of the quiz you want to see.
3. To simulate the end of lecture scenario, jump to the next video in line. It would assume previous video is completed and would show you the quiz questions if any available
4. To simulate the end of section scenario, jump to the next section in line. It would assume previous section is completed and would show you all the quiz questions from each of the previous section if any available

5. To simulate the end of course scenario, use mark the course complete button. This would show all the quiz details

No Sections Scenario

1. Click on Course 2. You will see that the loader spins continuously. This is to demonstrate our loader that helps in covering the page while the API is loading. It also shows the scenario where no sections are added to the course from backend

Limitations

Due to the time restraints, we were not able to implement the functionality of saving users progress on the courses. Due to this some of the features like marking videos complete, resuming videos etc are not implemented.

Login credentials for the application:

Username: elnu@purdue.edu

Password: 1234

React Application: http://localhost:3000/home

Backend Application: http://127.0.0.1:8000/