

CS 312 - Group Project Proposal

Group Details:

Student 1 Name	Tyler Chapp
Student 1 Email	tjc234@nau.edu
Student 2 Name	Jeysen Angous
Student 2 Email	jaa678@nau.edu

Project Details:

Title	Online Streaming Platform
Problem Statement	With the rise of streaming services, users are often overwhelmed with content choices and find it difficult to discover high-quality films and TV shows based on their interests. A personalized streaming platform that offers a seamless browsing experience, detailed content information, and user reviews would enhance accessibility and user interaction with visual entertainment.
Project Idea	Develop a streaming service application using the PERN stack (PostgreSQL, Express.js, React, Node.js) where users can browse, search, and stream various movies, TV shows, and documentaries. The platform will focus on user feedback through ratings and reviews, and efficient content discovery based on user preferences.
Project Components	<ul style="list-style-type: none">● Book Listing and Details:<ul style="list-style-type: none">○ Display a comprehensive list of movies, TV shows, and documentaries with essential information like titles, genres, cast, and synopses.○ Clicking on a title reveals detailed information, including reviews, ratings, director profiles, and release dates to aid user decision-making.● Search Functionality:

	<ul style="list-style-type: none"> ○ Implement a robust search feature allowing users to quickly find content by title, genre, or actor. ○ Enhance user experience with auto-suggestions and filters, offering advanced options like searching by release year or content type (movie, series, documentary). ● User Reviews and Ratings: <ul style="list-style-type: none"> ○ Enable users to submit reviews and rate the content they've watched. ○ Display aggregated ratings and popular reviews to foster community engagement and enhance content discovery. ● Sorting and Filtering: <ul style="list-style-type: none"> ○ Provide sorting options such as genre, release year, ratings, or content type (e.g., documentaries, TV shows). ○ Implement advanced filtering to cater to user preferences (e.g., sort by popularity, trending content, or recommended content).
--	--

Task Planning:

1. Phase-1:

Phase-1 Deliverables	<ul style="list-style-type: none"> ● Homepage layout ● User Authentication ● Content listing ● Basic content search ● External API Integration ● Basic sorting/filtering options 	
Student 1 Tasks		Student 2 Tasks

<p>Task 1:</p> <p>Design and develop the homepage layout. Create a clean and responsive UI using React making sure users can browse top-rated or popular content.</p>	<p>Task 1:</p> <p>Design and implement the basic search function. Build search input with auto-complete and options like genre, year, actor(s), and director(s) based on API data.</p>
<p>Task 2:</p> <p>Implement user authentication. This includes setting up the backend with Node and Express to handle user registration, authentication, and session management.</p>	<p>Task 2:</p> <p>Develop the detailed content view for each listing. When a user clicks on a title, shows detailed information like cast, review/rating, and year based on API data.</p>
<p>Task 3:</p> <p>Set up the Database. Design the schema for our PostgreSQL database for users, content, and review tables. Make sure passwords are securely stored.</p>	<p>Task 3:</p> <p>Allow users to submit reviews and ratings for content. This data should be stored in the database and displayed alongside the content details.</p>
<p>Task 4:</p> <p>Create a content listing. Fetch and display list of content (movies, TV shows, and documentaries) from an external API with basic details: title, genre, synopsis.</p>	<p>Task 4:</p> <p>Build the sorting/filtering feature. Add options or buttons on the front end for users to sort content based on popularity, year, and genre.</p>

2. Phase-2:

Phase-2 Deliverables	<ul style="list-style-type: none"> • User profile management • Recommendation engine • Advanced filtering features • Content playback support 	
Student 1 Tasks		Student 2 Tasks
Task 1: Recommendation Engine. Use filtering algorithms to generate personalized recommendations based on user's past views and ratings.		Task 1: Advanced Filtering System. Expand on filtering to support multiple levels of filtering (such as by genre and rating).
Task 2: Implement User profile management. Allow users to update their profile information, see their view history, and manage ratings/reviews.		Task 2: Implement content playback. Allow basic video playback functionality directly on the website, or link out to a 3rd party streaming platform if needed.
Task 3: Expand the Database. Add tables to store user preferences, interactions, and view history.		Task 3: Refine the UI for reviews and ratings. Focus on making the reviews/rating system very user-friendly. Display the most relevant reviews on content pages.

Project Mock-Up Screens:

- Sketch your mock-up screens using pen or pencil on paper. Alternatively, if you prefer digital tools like Figma or draw.io, you may use them.
- Incorporate mock-up screens corresponding to the project components or task list.
- Capture screenshots or pictures of your mock-ups and attach them in this section.




About Page

ReelZone | About

← → ↺

https://www.ReelZone/about



Home About

ABOUT

With the rise of streaming services, users are often overwhelmed with content choices and find it difficult to discover high-quality films and TV shows based on their interests. Introducing ReelZone, A personalized streaming platform that offers a seamless browsing experience, detailed content information, and user reviews would enhance accessibility and user interaction with visual entertainment.


MEET THE TEAM

Image

Jeysen Angous
intro and role

Image

Tyler Chapp
intro and role


Copyright 2024 @ReelZone

Authentication

ReelZone | Authentication

← → ↺

https://www.ReelZone/authentication



Home About

AUTHENTICATION

Register

Name

Email

Password

Confirm Password


Register

Login

Username

Password

Login

Copyright 2024 @ReelZone

Dashboard

ReelZone | Dashboard

← → ↺

https://www.ReelZone/dashboard

ReelZone

Filter

Home

About

DASHBOARD

Search

Movies

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Movie Cover

Shows

Show Cover

Show Cover

Show Cover

Show Cover

Show Cover

Show Cover

Show Cover

Show Cover

Show Cover

Documentary

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Doc. Cover

Copyright 2024 @ReelZone

Title Name

ReelZone | Title

← → ↺

https://www.ReelZone/title

ReelZone

Home

About

Title Cover

Title Genre Cast Release Date

Leave a Review

Name:

Date:

Description:

Rating:

★

★

★

★

★

Reviews

Copyright 2024 @ReelZone