

MovieDL

MovieDLproject.com

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Description

MovieDL is a fully featured e-commerce application that facilitates filtering, sorting, selection and purchase of more than 15,000 movies through a responsive, user-friendly interface. MovieDL allows users to securely register and login with the freedom to customize their personal information. With easy-to-use admin features, site managers can edit details of movie products and view full order histories.

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Features

- REST API serving proprietary movie collection (Sourced from TMDB API)
- Product browse with random recommendations across site
- Search products from any page
- Filter movies by genre
- Sort products alphabetically, by price, or by movie release date
- Custom shopping cart system with simultaneous client and server persistence via REST endpoints, with present-cart prioritization
- User checkout with Stripe API (test mode only)
- User order history tables with sort, pagination
- User registration, login and editable profile page
- Custom logging for Spring Security filters
- Admin portal/dashboard - edit product details, delete products, view all past orders
- Integration and unit testing for Rest API utilizing PIT mutation testing system
- AI chatbot accessible from any page which answers user movie questions using ChatGPT
- EmailJS API integration via Contact Us page
- Fully responsive styling, custom built UI components
- Hosted via AWS: RDS, EC2, S3, CloudFront, Route 53 - www.moviedlproject.com

Planning - User Stories

These are just a few of the more than 50 user stories completed.

F1509b Cart user flow for LOGGED IN USER

in list [Sprint 6 Completed](#) 

Members



Labels



Notifications



Watching



Description

Edit

(XXXL)

As a user I would like any previous cart to be replaced with my newest cart when I log in if I have placed items in the cart before log in if I do not have any items in my cart before logging in I would like the last cart I had to still be present.

- On log in, DB cart is represented in state locally, replaces existing localStorage cart.
- cart edit buttons make API calls.

b999: Order history - create and connect to DB

in list [Sprint 6 Completed](#)

Members



Notifications



Watch

Description

Edit

(Medium)

As a user I would like to be able to see the purchases I have made from MovieDL. These will be returned from an API endpoint pulling from the database.

B106: Genre Filtering Feature

in list [Sprint 3 Completed](#)

Members



Notifications



Watch

Description

Edit

(MEDIUM)

As a user, I would like to be able to filter the results of searches by specific genre[s]. I would like the filter to apply to all movies before entering a search term, and I would like it to apply to search terms if entered.

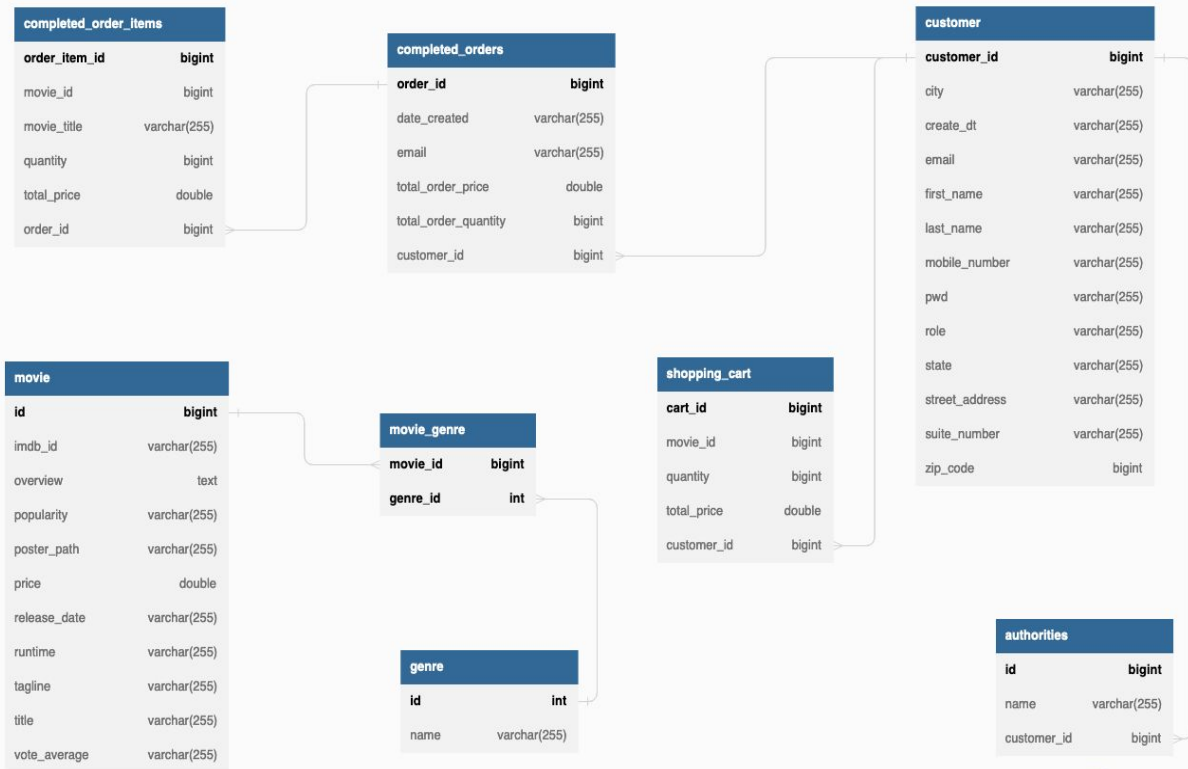
To be complete this feature would need to be able to return based on one or more genres.



Planning - Database

Tables:

- authorities
- completed_order_items
- completed_orders
- customer
- genre
- movie
- movie_genre
- shopping_cart



Technology Stack

Front End

- ReactJS (JavaScript, JSX, CSS)
- React Router DOM
- Zustand (state management)
- Styling: Bulma, MUI, FontAwesome

Back End

- Spring Boot (Java)
- Spring Security w/ JWT
- Hibernate & JPA
- MySQL
- PITest

Other Libraries & APIs

- TMDB - The Movie Database API
- Stripe
- JWT-Decode
- EmailJS
- Toastify
- OpenAI (GPT)

Demo

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What I Learned

- ReactJS
- Rest API in Spring Boot
- Spring Security
- CSS & UI via Bulma & MUI
- API Integration
- Integration and Unit Testing
- Deployment + Hosting with AWS
- State Management for Client Side
- JWT Authentication for Server Side
- Expanded JPA Capability

What's Next

- Movie Reviews
- Lost Password Recovery
- Expanded Filter, Sort, and Search Capabilities
- Expanded Admin Features
- Favorites
- Guest Checkout
- Improved Responsive Design for Mobile

Thank you!

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