

AI Usage Documentation for Movie Catalogue Project

AI-Generated Components:

The following components of this project were generated with AI assistance:

1. Model Files (AI-Generated)

- User.java (Handles user authentication and storage)
- Movie.java (Manages movie data, including title, genre, and release year)
- Review.java (Stores and retrieves user reviews for movies)

AI Prompt Used:

"Generate a Java class for managing user authentication with username and password storage. Include methods to retrieve and update credentials. Ensure serialization for saving user data."

"Generate a Java class to manage movies with attributes for title, genre, and release year. Include getter and setter methods."

"Generate a Java class to handle movie reviews, allowing users to store and retrieve reviews."

Changes and Refinements:

- Improved variable naming for better readability.
- Added exception handling for file operations.
- Implemented additional validation checks for input data.
- Optimized data structures for better performance.

2. UI Files (AI-Generated)

- LoginPage.java (Handles user login with Swing components)
- RegisterPage.java (Allows users to create new accounts)
- MovieCatalogueUI.java (Displays the movie catalogue in a GUI format)

AI Prompt Used:

"Generate a Swing-based Java login page with username and password fields, a login button, and a register button. Ensure it validates credentials using an existing User class."

"Generate a Swing-based Java registration page that allows users to create an account with username and password fields. Save the data using a User class."

"Generate a Swing-based Java GUI for displaying a movie catalogue. Include a list of movies, a search bar, and buttons to view details or add reviews."

Changes and Refinements:

- Adjusted UI layout for better user experience.

- Enhanced input validation to prevent incorrect user input.
- Linked UI elements properly to backend logic.
- Improved error messages for better user feedback.