**PRD - Product Requirement Document**

**Title:** MovieInfo

**Overview:**

MovieInfo is a web-based movie information system built using Django. The application enables users to search for movies, view detailed information, and manage their personal search history. It leverages the OMDb API for real-time movie data and features a modern, responsive interface styled with Tailwind CSS.

**Goals & Objectives:**

* Streamline Movie Discovery: Make it easy for users to search and explore movies.
* Enhance User Experience: Provide a clean, intuitive, and responsive UI.
* Personalization: Allow users to view their search history.
* Authentication & Security: Secure user accounts and personal data.

**Target User:**

* Movie enthusiasts
* General public seeking movie information
* Registered users who want to track their search history

**Features**

| Feature | Description | Priority |
| --- | --- | --- |
| User Registration | Allow new users to register and create accounts | High |
| Movie Search | Search movies by title using OMDb API | High |
| Dashboard | Display a grid of popular/searched movies with posters | High |
| Movie Details | Show detailed info: poster, year, genre, director, actors, plot | High |

**Functional Requirements**

**Movie Management**

* Data: Title, Year, Genre, Director, Actors, IMDB Rating, Poster, Plot
* API: Fetch movie data from OMDb API
* Display: Show movies in a responsive grid with poster images

**User Management**

* Registration/Login: Django authentication system
* Search History: Store and display user search history

**UI/UX Requirements**

* Clean, mobile-first design using Tailwind CSS
* Three main screens:
* Dashboard (movie grid)
* Movie Details (detailed card)
* Search History (list view)

**Tech Stack**

* **Frontend:** HTML, Django Templates, Tailwind CSS
* **Backend:** Django (Python)
* **Database:** SQLite (default, can be upgraded)
* **External API:** OMDb API

**Timeline**

Task Deadline

Requirement Finalization Day 1

UI Wireframes Day 2

Build Search & Dashboard Day 3

Add Movie Detail & History Day 4

Testing Day 5

Final Touches & Report Day 6

**Success Criteria**

* App loads and displays at least 5 movies
* Users can search and view movie details
* Users can register, log in, and view search history
* Mobile responsive layout
* No major bugs during testing

**Deliverables**

* Working app (locally runnable)
* Source code (GitHub)
* Final Report (PDF with screenshots and features)

**Result:**

A backend-only MovieInfo API that allows for full movie data management via A fully functional MovieInfo system that streamlines movie discovery and personal search management for users, with a clean, responsive user interface and secure authentication.