**Functional Requirements**

Functional requirements define the key features and capabilities that the Movie Recommendations system must support to ensure a seamless user experience.

**1. User Authentication and Profile Management**

* Users should be able to create an account, log in, and manage their profiles.
* Secure authentication mechanisms (e.g., email/password, OAuth) should be implemented.
* Users should have the ability to update their preferences and personal details.

**2. Movie Recommendation System**

* The system must generate personalized movie recommendations based on user preferences, watch history, and ratings.
* Recommendation algorithms should utilize collaborative filtering, content-based filtering, or hybrid approaches.
* The system should allow users to refine recommendations based on filters like genre, release year, and popularity.

**3. Search and Filtering Functionality**

* Users should be able to search for specific movies by title, actor, director, or keywords.
* Filters should allow users to narrow down movie selections based on:
  + Genre
  + Release year
  + User ratings
  + Trending or popular movies

**4. Interactive User Interface**

* The platform should provide a visually appealing and intuitive UI for browsing movies.
* Movie details, trailers, and reviews should be easily accessible.
* Users should be able to create and manage watchlists.

**5. Admin Panel for Movie Management**

* Administrators should have access to a dashboard to manage movie data.
* The system should support adding, updating, and removing movies from the database.
* Admins should be able to monitor system performance and manage user feedback.

**6. User Feedback and Rating System**

* Users should be able to rate movies and leave reviews.
* The system should use ratings and reviews to improve future recommendations.
* Users should have the option to report incorrect or inappropriate content.

**7. Notifications and Alerts**

* Users should receive notifications about new recommendations, trending movies, or special promotions.
* The system should allow users to enable or disable notifications.

**8. Multi-Platform Accessibility**

* The platform should be accessible via web browsers and mobile devices.
* A responsive design should be implemented for optimal viewing across different screen sizes.

**Conclusion**

By implementing these functional requirements, the Movie Recommendations system will offer a robust and user-friendly experience for movie enthusiasts, ensuring accurate recommendations, easy navigation, and smooth system management.