MangaVerse

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Introduction

Project Overview

MangaVerse is a project developed for the Large-scale and multi-structured databases course of the University of Pisa. This web application aims to provide users with a comprehensive platform to explore, search, and interact with a vast collection of manga and anime. Users can register, personalize their profiles, and engage in a community. The platform also offers a set of features for registered users, such as liking media contents, following other users, adding reviews and ratings. Additionally, users receive personalized suggestions based on their preferences and current trends. The site manager has access to detailed analytics about media contents and user activities.

Analisys

Requirements

Unregistered User:

- Browse Media Contents:
  - View a list of available manga and anime on the home page.
  - Access basic details about each media content without logging in.
- Search and Filter:
  - Use the search bar to find specific manga or anime by title.
  - Utilize basic filtering options to refine the media content list.
- View Media Content Details:
  - Click on a media content to view detailed information, including synopsis and genre.
- Register/Login:
  - Access a registration page to create a new account.
  - Use valid credentials to log into the account.
- Explore Features:
  - Access information about the features available to registered users.

Registered User:

- Browse Media Contents:
  - View a list of available manga and anime on the home page.
  - Access basic details about each media content without logging in.
- Search and Filter:
  - Use the search bar to find specific media content by title.
  - Utilize basic filtering options to refine the media content list.
- View Media Content Details:
  - Click on a media content to view detailed information, including synopsis and genre.
- Logout:
  - Ends the user's session.
- Profile Management:
  - Edit and update personal information (e.g., profile picture, bio).
  - Change account password.
- Explore Other User Profiles:
  - View profiles of other registered users.
  - See their liked manga, anime and reviews.
- Interact with Media Contents/Users:

  - Like or dislike manga and anime to indicate preferences.
  - Follow/unfollow other users.
- Review Media Contents:
  - Add reviews and ratings to manga and anime.
  - View and edit own reviews.
- Advanced Recommendations:
  - Receive more refined media content suggestions based on detailed user interactions.
  - Receive users suggestions based on common interests.

Manager(Registered User with Administrative Features):

- Analytics Dashboard:
  - Access a comprehensive analytics dashboard with data on user engagement and media contents trends.
- User Management:
  - View and manage user accounts, including account activation and deactivation.
- Content Management:
  - Manage media content entries, including adding new manga and anime, updating information, and removing entries if necessary.
- Monitor Trends:
  - Monitor trends in user interactions, popular genres, and trending manga.

Non Functional Requirements

Performance

- Response Time: The system should have low latency, with pages loading within an acceptable timeframe.
- Scalability: The system should be able to handle an increasing number of users and data without significant degradation in performance.
- Concurrency: The application should support multiple users simultaneously without performance bottlenecks. For very high traffic scenarios, acceptable delays may be introduced.

Security

- Data Encryption: All user data, including passwords, should be securely encrypted during transmission and storage.

User Interface

- Responsiveness: The user interface should be responsive, providing a consistent and seamless experience across various devices and screen sizes.
- Intuitiveness: The interface should be user-friendly, with clear navigation and easily understandable features.

Design

Design 1

Design 2

Implementation

Implementation 1

Implementation 2

Conclusion

Conclusion 1

Conclusion 2