Data	Versiune	Autor	Comentarii
Current Date	1	Bostina Mihnea	Cerinte 1

Cerinţele de sistem pentru Shared Music Taste

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1 Introduction

This project is a **music recommendation application** designed to enhance user interaction with music albums while leveraging AI for personalized recommendations. The application combines a robust backend API, an AI-powered recommendation engine, and a user-friendly frontend to deliver an engaging experience for music enthusiasts.

2 Prezentarea generală a actorilor si a diagramelor use-case

Main actors

Actor	Tip	Descriere
Administrator	Human	Admin of the system
Authorized User	Human	The person that uses the system, rates albums, views recommandation, makes friends.

3 Descrierea detaliată a actorilor si a diagramelor use-case

3.1 Actors

3.1.1 Administrator

Primary Actions:
- Manage users (view, disable, or delete accounts).
- Oversee the addition or curation of album metadata.
- Monitor and manage activity logs or reports for system integrity.

Permissions:
- Full access to the backend API endpoints and administrative features.
- Can modify or delete any user-generated content if needed.

3.1.2 User

Primary Actions:
- Register an account and log in.
- View and interact with personalized album recommendations.
- Follow other users to discover new music.
- Explore albums and leave ratings/reviews.
- View their follower/following lists.

Permissions:
- Can only access user-specific and public features.
- Cannot modify platform-wide settings or access admin-exclusive features.

3.2 Use-case diagrams

3.2.1 Admin use case

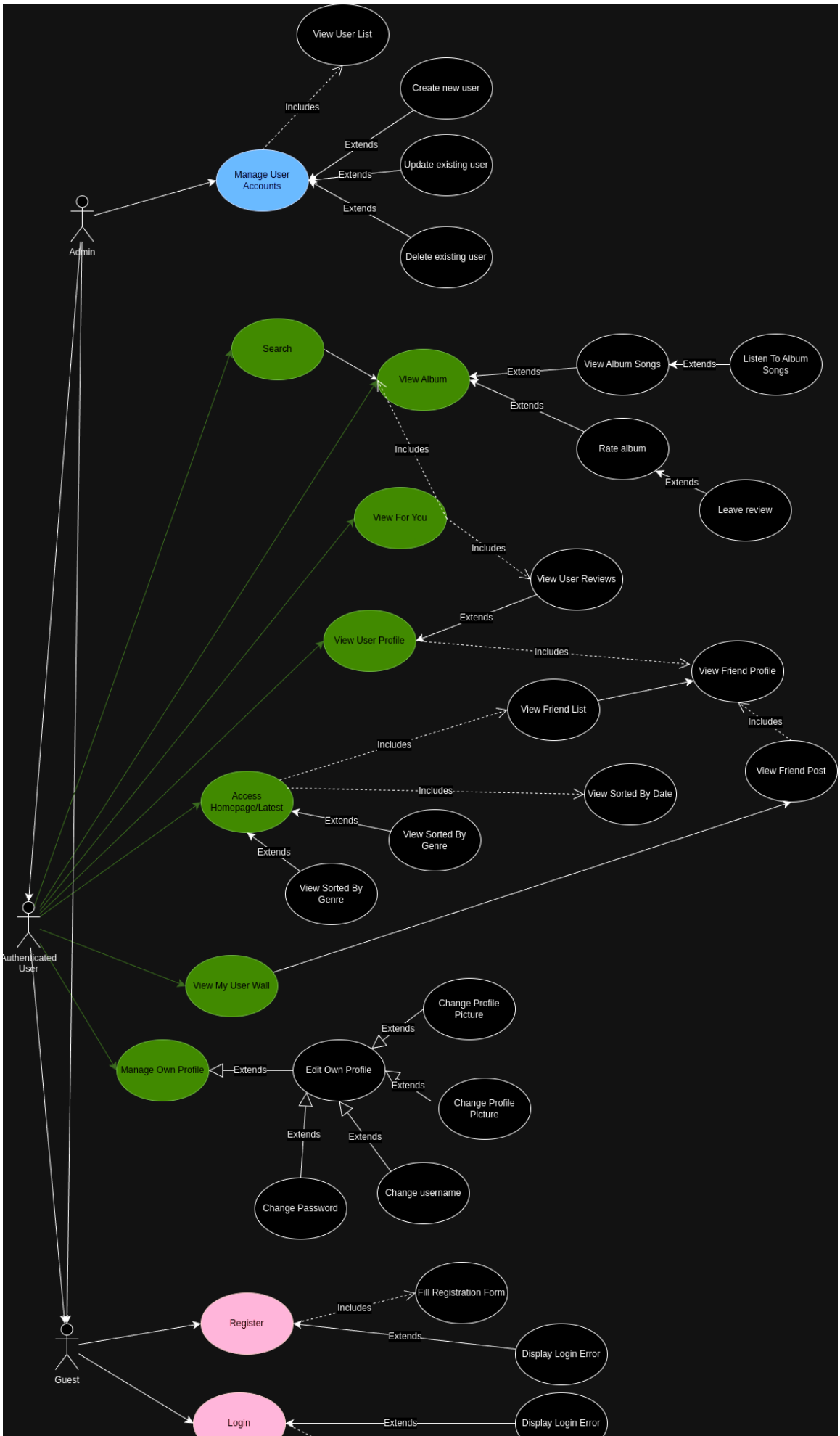
Description:

The admin will use the system to manage user accounts and oversee album metadata. They can also monitor activity logs to ensure the platform's integrity.

3.2.2 User use case

Description:

The user will interact with the system to explore and rate albums, receive personalized recommendations, and manage their profile. They can also view album details and participate in discussions.


View User List
Includes
Create new user
Extends
Manage User Accounts
Extends
Update existing user
Extends
Delete existing user
Admin
Search
View Album
Extends
View Album Songs
Extends
Listen To Album Songs
Extends
Rate album
Extends
Leave review
Includes
View For You
Includes
View User Reviews
Extends
View User Profile
Includes
View Friend Profile
View Friend List
Includes
Includes
View Friend Post
Access Homepage/Latest
Includes
View Sorted By Date
Extends
View Sorted By Genre
Extends
View Sorted By Genre
Authenticated User
View My User Wall
Change Profile Picture
Extends
Manage Own Profile
Extends
Edit Own Profile
Extends
Change Profile Picture
Extends
Extends
Change Password
Change username
Fill Registration Form
Includes
Register
Extends
Display Login Error
Guest
Login
Extends
Display Login Error

4 Functional and non functional requirements

Functional Requirements:

1. Users should be able to register, log in, and manage their profiles.
2. Users can search for albums and rate them.
3. The system provides album recommendations based on user preferences.
4. Admins can manage album data, including adding, updating, or removing albums.
5. Users can view detailed information about albums and participate in discussions.

Non-Functional Requirements:

1. The system must support at least 100 concurrent users.
2. Response times for recommendation queries should not exceed 2 seconds.
3. The system must ensure data integrity for user ratings and album details.
4. Security measures, such as hashed passwords and role-based access control, must be implemented.
5. The application should be scalable to accommodate future growth in user base and data size.