



Apollo

Music Dating and Social Network Application



Samantha Kamath | Megan Page | Yunting Zhao

CSC 431 | Introduction to Software Engineering

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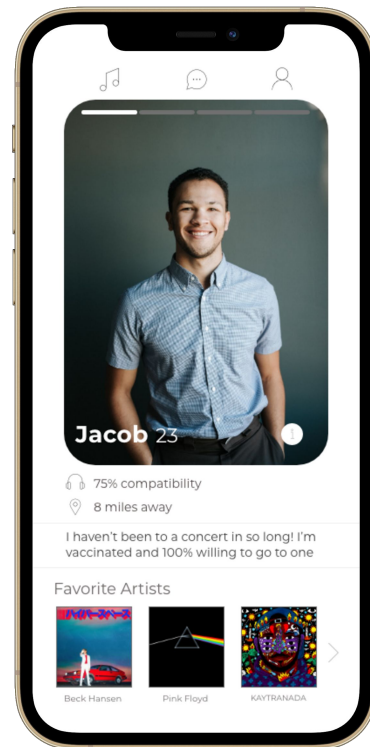
Concept

What is Apollo?

Dating and Social Networking App for Music Junkies

Apollo connects you to people in your area who have similar music taste and concert venue preferences as you. Once a match is made between two users, our algorithm will recommend concerts in your area that you and your match can check out.

People who place a high value on music know that taste can reveal a lot about someone's personality and their interests, so find your musical match with Apollo!





Key Functional Requirements

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- **Creating User Account:** System creates a new user account when users register using a new email or phone number
- **Creating Profile:** System creates a user profile and presents users with the option to add personal information.
- **Matching Preferences:** The system executes the preferences matcher every time a user saves their profile.
- **Previewing Suggested Upcoming Concerts:** Users preview suggested upcoming concerts upon messaging a match.



Additional Functional Requirements

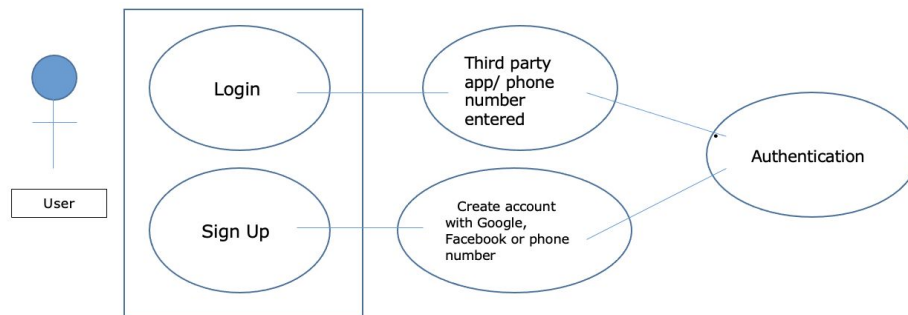
Additional Functional Requirements

- **Logging In:** The system logs in users using the same process and credentials with which they registered.
- **Users Exploring Profiles:** Users view other users' profiles and like or dislike the profiles.
- **Messaging Matches:** Both users have chosen to like each other's profiles, creating a match between them.

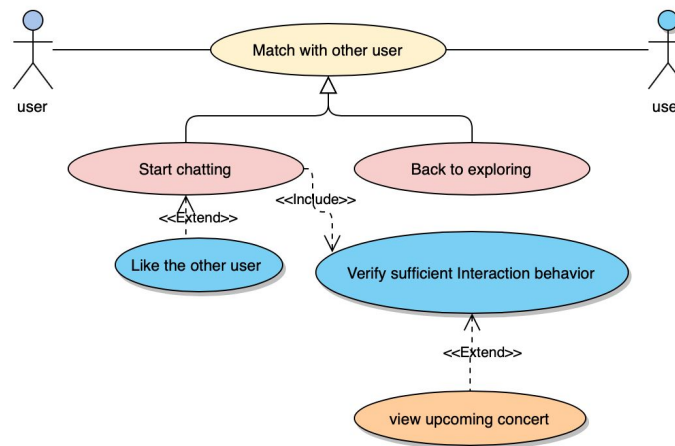


Use Cases & Diagrams

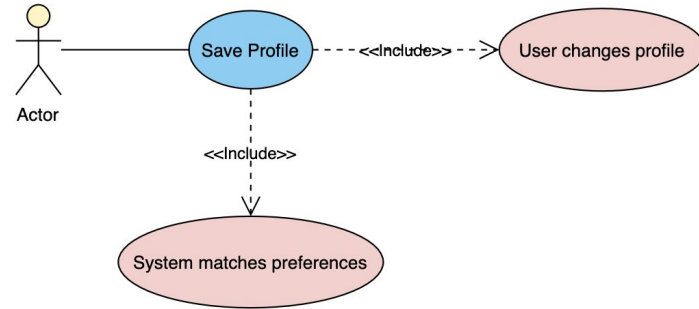
Creating User Account, Logging In



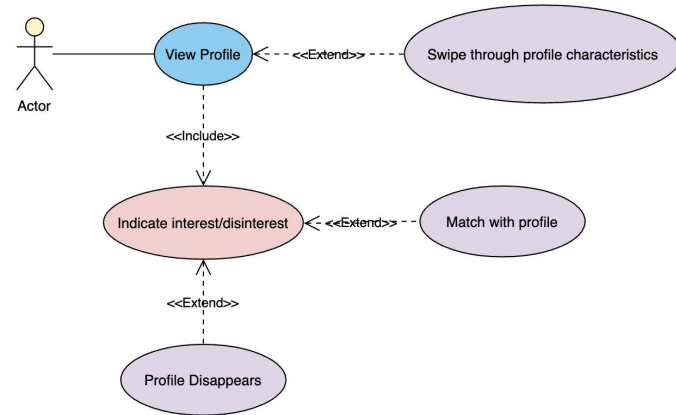
Messaging Matches, Previewing Upcoming Suggested Concerts



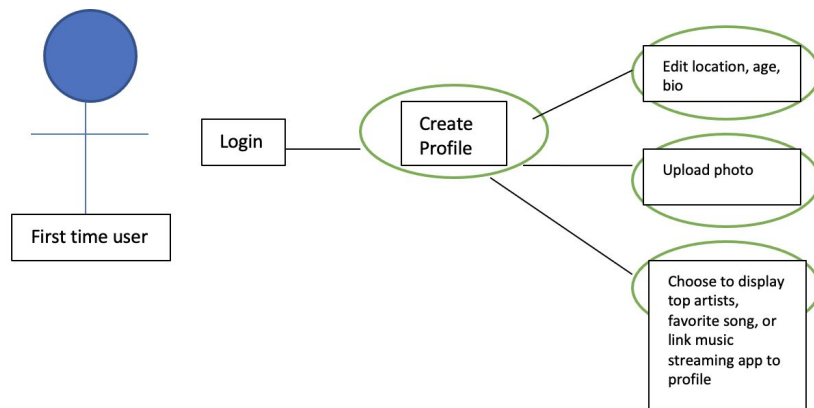
Matching Preferences



Exploring Profiles

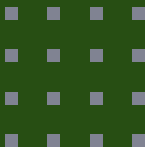


Creating Profile





Non-functional Requirements



Non-functional Requirements

User Registration Load Speed: When registering with Google or Facebook, the third-party login should load within two seconds.

User Profile Page Load Time: User profile pages are created and load within two seconds of new users registering.

Login Page Security: User login data will be encrypted.

Preferences Matcher Compatibility: Users match with others based on a user-defined percent compatibility threshold.

Non-functional Requirements

Seeking Page Usability: Users do not see previously-disliked users on the seeking page.

Matches page security: User matches and match chats will be confidential.

Suggested Upcoming Concerts: Users expect to see concerts close to their location based on their artist, genre and concert venues preferences.



System Constraints

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Mobile Application Framework Constraint

- Firebase will be used for the backend

Backend Language

- Java will be used for the backend

Frontend Language

- Dart will be used for the frontend

System Constraints

Platform Constraint

- App must run on iOS

Hardware Constraint

- iPhone is required to access the application

Network Constraints

- Internet required to use the application

System Constraints

Deployment Constraint

- Service will be deployed using Firebase for mobile applications

Budget & Schedule Constraints

- The design and requirements of this app must be completed in three months (end of semester)



Questions?