**Software Requirements and Design Document**

**For**

**Group 17**

Version 1.0

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# Overview

We are creating a Party Finder App, which will stand a sort of social media exclusively for the sake of following and tracking events. Both people and events can be followed. Users can add their own listings with custom guidelines for each of their events along with a functional mapping system to the event. Additionally, a rating system will be applied for users to view and base their decisions off of.

# Functional Requirements

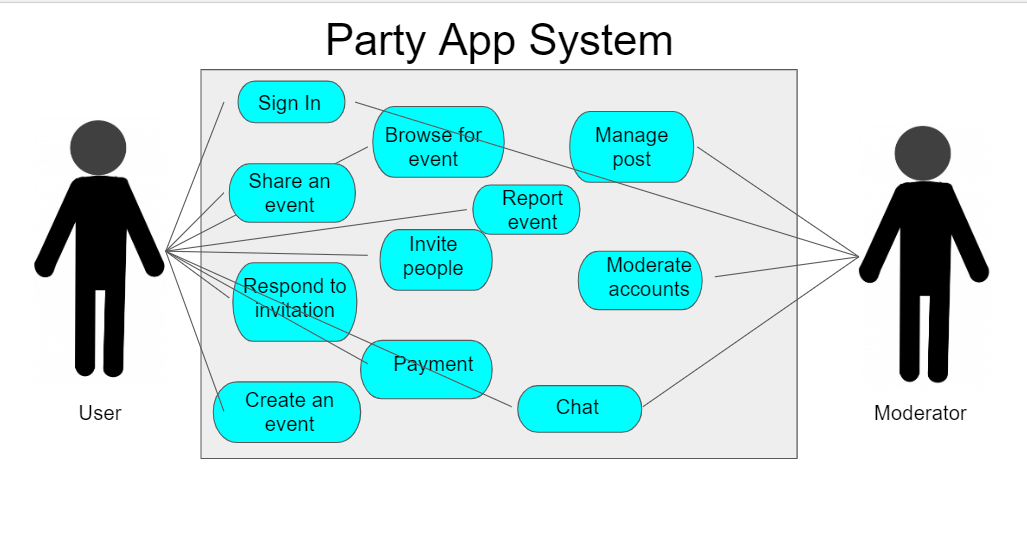
* 1. Attendance: The app is capable of showing the number of people present at each party (low priority).
  2. Geo-tagging: Application is capable of accounting for your geographic location when filtering relevant events. This is also used to give locations to events, and checking into events (high priority).
  3. Sharing: Messaging system built in application to allow for sharing of event listings through chat and other social media platforms (low priority).
  4. Search: Search for events based on location or category (high priority).
  5. Listings: Application is capable of allowing users to post events (high priority).
  6. Notifications: Users can receive notification reminders ( low priority).
  7. Chat: Users are able to chat with each other and share party details. (medium priority).
  8. Application allows for users to create and manage their accounts (high priority).

*List the* ***functional requirements*** *in sentences identified by numbers and for each requirement state if it is of high, medium, or low priority. Each functional requirement is something that the system shall do. Include all the details required such that there can be no misinterpretations of the requirements when read. Be very specific about what the system needs to do (not how, just what). You may provide a brief design rationale for any requirement which you feel requires explanation for how and/or why the requirement was derived.*

# Non-functional Requirements

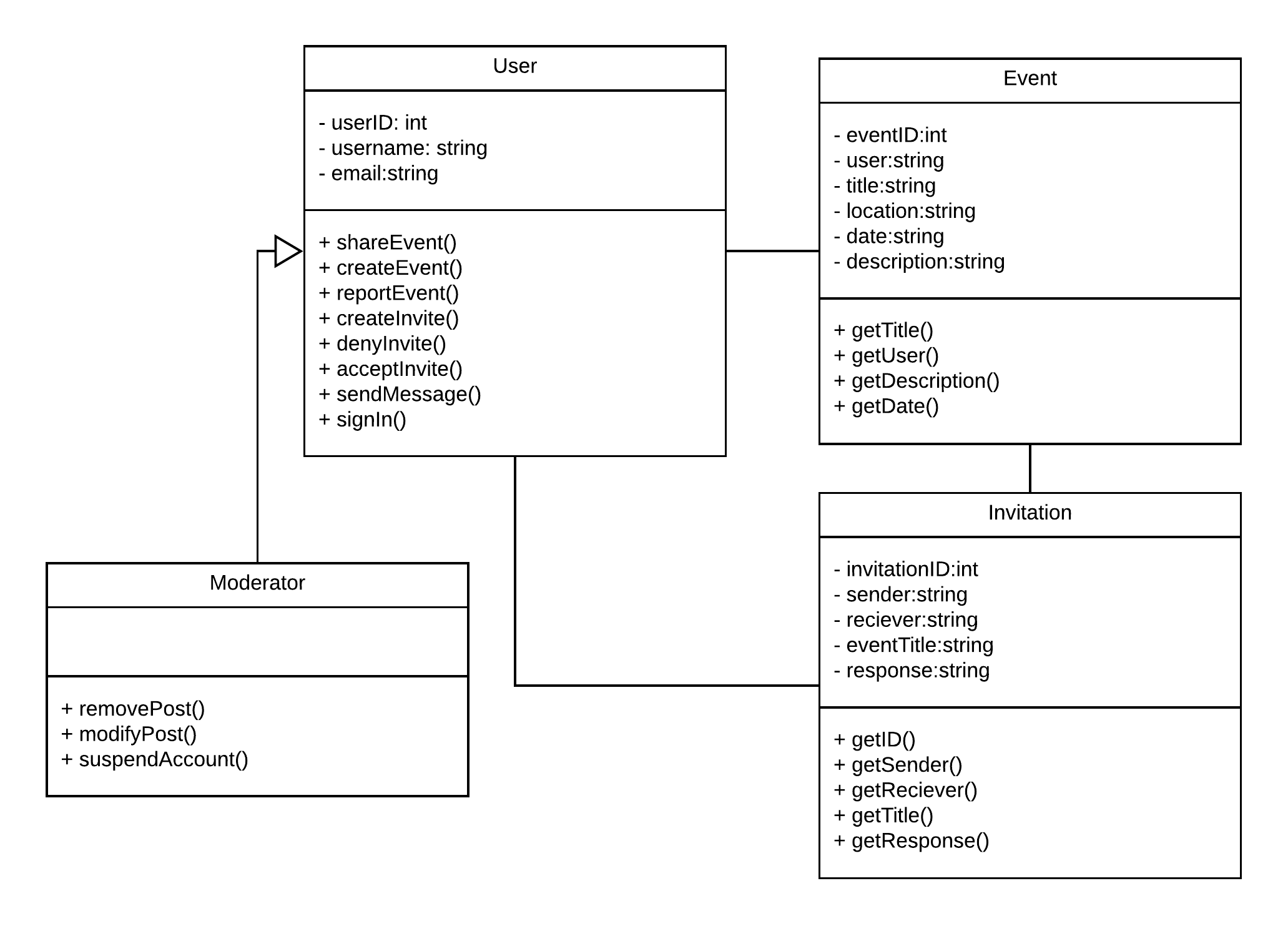
* ***GPS System:*** *The device being used requires a GPS system to be able to utilize the Geo-tracking features of the application.*
* ***Device Lock System:*** *If application remains logged in until signing out, the users security would remain protected by the systems internal lock system.*
* ***Updated Operating System:*** *The platform requires a minimum OS requirement that may be subject to change upon further development, so the device being used requires a up to date OS to continue using this program in an efficient manner.*
* ***Strong Connection:*** *A strong internet connection is required to log on and fully utilize Party Finder’s features.*

# Use Case Diagram

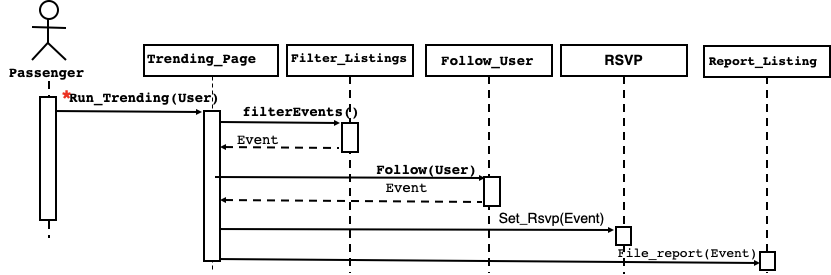
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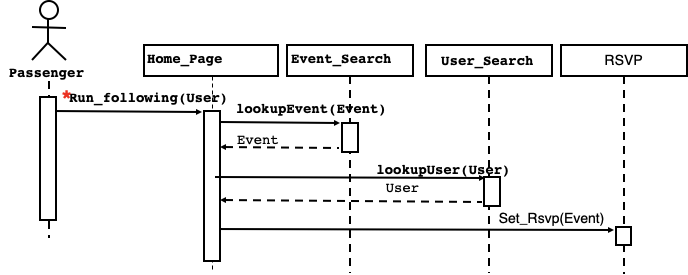
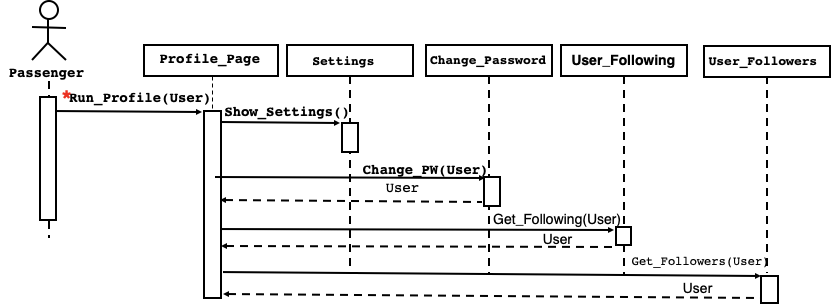
# Class Diagram and/or Sequence Diagrams

*Class Diagram:*

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*Sequence Diagrams:*





# Operating Environment

Party Finder is mainly a mobile app so it will be running on both iOS and android. Specifically we are shooting for a minimum of Android Oreo(8.0) and iOS 8. This way Party Finder will work on most older devices as well as the new ones

# Assumptions and Dependencies

*List any assumed factors (as opposed to known facts) that could affect the requirements stated in this document. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project.*

1. Google Maps API
2. Kivy Limitations
   1. Interacting with mobile GPS
   2. layout design
3. Firebase messaging within kivy