**EventUp!**

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**Problem Statement**

At Purdue University events occur almost every single day, the only issue is a majority of students are not even aware of them. To even get a small amount of people to be aware of requires organizers to send Facebook invites, use different department mailing lists, put in ad requests for TV boards, etc. which in turns requires students to be part of/see one of them. “EventUp!” aims to solve this issue by providing organizers a centralized platform to advertise their events as well as allow students at Purdue a simple and reliable method of finding and being notified of those events.

**Background Information**

EventUp is targeted towards students with the goal of getting event information out to as many of them as possible. Although Facebook already has a functional event system, it’s very limited, because it depends on user’s having to go out of their way in order to find interesting events. With EventUp there will be a general hub that shows all events currently taking place making it more convenient for users to find events.

**Functional Requirements**

1. As a user, I would like to see my favorite users and their events
2. As a user, I would like to browse current events
3. As a user, I would like to see organizer’s ratings
4. As a user, I would like to see amount of people at event
5. As a user, I would like to see organizer’s other events
6. As a user, I would like to filter events based on preferences
7. As a user, I would like to browse future events
8. As a user, I would like to see events on a map
9. As a user, I would like to get directions to an event using the map
10. As a user, I would like to see event details in the list of events, including how many people are at each event, the location of event, who planned it, tags associated with the event and other relevant details
11. As an organizer, I would like to create an event and have other users join
12. As an user, I would like to participate in an event
13. As an user, I would like to be checked in automatically when I enter a certain geolocation to participate in an event
14. As an user, I would like to chat with other users that are participating in the event when I enter a certain geolocation
15. As an organizer, I would like to drop a pin on the location of the event
16. As an user, I would like to rate an event that I attended
17. As an organizer, I would like to see how other users rated my event
18. As a user, I would like to see which events are popular on the map using a heat map based on population
19. As a user, I would like to see the average rating for each organizer’s events
20. As a user, I would like to navigate the app with different page tabs
21. As an organizer, I would like to edit my events
22. As an organizer, I would like to add tags to my events so users can see what my event involves
23. As an organizer, I would like to set a geolocation for my event encompassing the area where my event is taking place
24. As an organizer, I would like to see my average rating for events that I have hosted in the past
25. As a user, I would like to search through relevant tags to find events involving things that interest me
26. As an event planner, I would like to keep a history of my past events
27. As a user, I would like to see a history of the events that I have gone to
28. As a moderator, I would like to confirm or deny events based on validation parameters
29. As a moderator, I would like to filter out inappropriate or hateful events
30. As a user, I would like to see future events
31. As an organizer, I would like to create sponsored events (for example a club callout sponsored by a club)
32. As an organizer, I would like to see how many people have RSVP’d or are attending my event
33. As a moderator, I would like to filter out possible spam among users
34. As a user, I would like to receive lock screen notifications regarding events I have RSVP’d to attend
35. As a user, I would like to receive recommended event suggestions based on the types of events I have attended or favored in the past
36. As a user, I would like to receive notifications regarding new events from organizers whom I’ve attended events from in the past
37. As an organizer, I would like to include tags to help users find my events while searching.
38. As an organizer, I would like to place events on the map as a method for creating events
39. (If time allows) As an event planner, I would like my event to be color-coded on the map, based on how much time is left leading up to the event
40. (If time allows) As an event planner, I would like my events to have a small pop up menu on-screen if the event is clicked on the map
41. (If time allows) As a user, I would like to see events that other users whom attended events with me are attending in the future
42. (If time allows) As a user, I would like to attend events with other users in a group feature
43. (If time allows) As a user, I would like to see an AR map of campus
44. (If time allows) As an organizer, I would like to see suggestions for tags based on event information
45. As a user, I would like to link my facebook to the app.

**Non-functional Requirements**

1. Run application on iOS device
2. Application must integrate with Firebase Database system
3. As a user, I would like to quickly get data about events, and have a responsive UI
4. Must update database in realtime
5. Must be able to handle heavy traffic especially during peak times (During events)
6. Must be able to detect entry into selected location
7. Must be able to send push notification quickly
8. Must be able to handle network requests in background without interrupting main thread
9. Must be responsive to user interactions
10. Must have reliable information retrieval
11. App must be consistent in performance
12. Must have simple but powerful UI
13. The app must be scalable
14. Database structure must be efficient for quick data lookups
15. Map must update in real-time