Project Backlog

Project Name: Eventor

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Problem Statement

In today's world, platforms fail to provide a meaningful solution for discovering and sharing events, leading to fragmented engagement and interaction. Oftentimes, it is difficult to know where to look in order to have the most up-to-date information on events that you're interested in. Our aim is to differentiate our project by providing what other platforms such as "Facebook Events" and "Purdue Boilerlink" lack: a single centralized place to track all the events you are interested in, and a place for those events to be shared.

Background Information

The essence of the problem we aim to solve is that there is no existing platform purpose built for finding and sharing a wide range of events. The domain of our project is social media, and our targeted users are those who want to discover and engage with events, as well as those who have a desire to provide such events for discovery or engagement.

As far as any applications or systems that are similar to our planned work:
- Discord has an events feature, but it has absolutely no discoverability. We plan to address this limitation by providing users the ability to search for and discover new events they may be interested in.
- Purdue Boilerlink is used for student organizations to plan events, but it has a very limited scope as a result and is extremely difficult to navigate as a user. It serves more as a platform for student organizations to register events with the school, rather than event discovery. We plan to address this by making our platform easy to navigate and allow anyone to create and post events on the site.
- Facebook Events would probably be the most similar to what we are trying to achieve, however, there are considerable features missing that we would like to implement. Some primary lacking features include profiles for users showing their events, and it lacks some analytics features such as likes, shares, and views. Our plan to address this is using the scope of our application to our advantage. Our platform will include detailed profiles tailored to events, and provide analytical insights to users similar to other social media platforms.

Requirements (Backlog)

Functional

1. As a user, I would like to create an account.
2. As a user, I would like to sign into an account.
3. As a user, I would like to be able to delete my account.
4. As a user, I would like to manage my account information including my username and password.
5. As a user, I would like to be able to set the information on my profile, including a profile picture, display name, and a biography or status.
6. As a user, I would like to have a list of events that I have created on my profile.
7. As a user, I would like the ability to post an event onto my profile. Adding an address, description, event type, links, and other additional information.
8. As a user, I would like to allow other users to RSVP or indicate interest for my events and see a list of users who have done so.
9. As a user, I would like to have a calendar on the app that shows all the events I am RSVPed for or interested in going to.
10. As a user, I would like to be able to follow other users.
11. As a user, I would like to be able to have a feed of the most recent events posted by users that I follow.
12. As a user, I would like the ability to like and share events.
13. As a user, I would like the ability to view analytics on events, such as likes, shares, and views.
14. As a user, I would like to be recommended events based on my location or interests.
15. As a user, I would like to be able to search for events based on my location or interests.
16. As a user, I would like to be able to search for profiles of other users.
17. As a user, I would like to be able to filter my search to better find what I am looking for.
18. As a user, I would like to allow other users to comment on my events.
19. As a user, I would like to be able to like and reply to other user's comments.
20. As a user, I would like the ability to block other users causing me to not see any of their posts about events and preventing them from commenting or interacting on my profile.
21. As a user, I would like the ability to unblock users I have blocked.
22. As a user, I would like the ability to delete comments from my events.
23. As a user, I would like to set other users as moderators with the ability to delete comments from my posts.
24. As a user, I would like the platform to automatically block posts and comments on posts that may contain obscene or offensive content.
25. As a user, I would like the ability to delete my own comments.
26. As a user, I would like the ability to edit posts that I have made.
27. As a user, I would like the ability to delete posts I have made.
28. As a user, I would like to share a link to the event somewhere else, and have an embedded stylized version of the event show up.

29. As a user who is an Artist, I would like the ability to have a custom formatted event type for going on tour, which shows all of my tour locations and dates.
30. As a user who is an Artist, I would like the ability to have a custom formatted event type for album drops/music releases, which allows me to embed a track list within my post and share links to different listening platforms.
31. As a user, I would like the ability to create Twitter-like posts on my profile to get information to fans who follow me or visit my profile.
32. As a user, I would like the ability to attach image(s) to my posts.
33. As a user, I would like the ability to use markdown in my posts for increased control over text formatting.
34. As a user, I would like the ability to co-host an event with another user, making the same event show up as posted by both of us.
35. As a user, I would like to post updates to a specific event.
36. As a user, I would like the ability to view my notifications in a dedicated UI location (e.g. a "notification bell" dropdown that shows my notifications in order of recency).
37. As a user, I would like the ability to opt-in to notifications from users whose posts I am interested in.
38. As a user, I would like the ability to configure which types of posts I get notifications from.
39. [If Time Allows]: As a user, I would like to see what the weather will be at the location of an in-person event.
40. [If Time Allows]: As a user, I would like the ability to share a map for my in-person events so attendees can find their way around easier.
41. [If Time Allows]: As a user, I would like the ability to add an event to my external calendar app.
42. [If Time Allows]: As a user, I would like the ability to link my calendar from this app to my external calendar app (automatically updating).
43. [If Time Allows]: As a user, I would like an interactive user tutorial for how to use the app.

Non-Functional

Security and Authentication
- Users will be able to log into their own accounts or sign up for a new account. Passwords will be stored securely in a SHA256 hashed form.
- [If Time Allows]: Allow users to sign in through providers such as Google, Facebook, Apple, etc.

Web Application
A web interface to host the application. We will use the MERN stack to create our application. MongoDB will be used as our database to store necessary information. ExpressJS will be used to support Node and provide middleware and APIs. ReactJS is used to construct the UI and UX. NodeJS will be used to serve the website.
- As a user, I would like to have 24/7 access to the app.

- As a user, I would like the system to have the capability to handle me posting at least one event per minute.
- As a developer, we would like to be able to host at least 100 concurrent users in their general use of the app.
- As a developer, I would like to learn how to use all of these systems to create the application.
- As a developer, I would like to wireframe the User Interface before coding it (prototyping).
- As a user, I would like to access this service on mobile as well as desktop.
- As a mobile user, I would like the User Interface to be optimized for mobile use.

Usability

The user interface will be intuitive and easy for the average user to navigate. The interface will be designed so users can accomplish a task such as post an event, RSVP for an event, etcetera, as quickly and simply as possible by minimizing the number of clicks required to do so.

Architecture and Performance

Must be able to run on the free tier of AWS.