



Team 2 Product Backlog

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Problem Statement

With the ever-growing chaos of our university, planning around the unpredictability of campus activity has never been harder. Between finding adequate parking, getting to dining halls, and finding half-hour-long lines with no seating, or trying to get a quick gym session in before class, only to see what seems like everyone fighting for the machines at the same time, one must plan ahead or inevitably be late to something. It's safe to say students have better things to be thinking about, which is why we propose an all-in-one crowd-sourced application to keep in check with the current campus activity and make planning easier. Our application will provide relevant information all in one place so that students don't need to have apps like Waze, Calendar, Messages, and Purdue dining all open when trying to coordinate activities, and will also provide a shared calendar feature to make planning social events with others less of a headache.

Background Information

Audience

Purdue-affiliated individuals have struggled with having all daily planning needs separate from each other. It is imperative to have an easy, all-in-one crowd-sourced application to allow students and teachers alike to see all options for travel on and around campus. Many applications have attempted to tackle similar problems; however, no site has managed to contain all necessary items, such as tunnel paths and shared calendar systems, along with popular campus points of interest.

Similar Platforms

- Google Maps
- Apple Maps
- Waze

- OneNote
- Google Calendar
- Teams
- Purdue Dining
- Purdue Campus Transit
- Todoist

Limitations

There are quite a few different apps that solve part of the same problem we are tackling; however, there is no one main solution. There are countless scheduling apps, but none are integrated into the popular maps app. And many group discussion/planning apps require patchy integration with pre-established scheduling and mapping apps. On top of that, none of it functions in tandem with the current Purdue Campus apps that provide information on transit and dining. Our group intends to simplify the current pandemonium that ensues daily on this campus. We also intend to apply crowd sourcing and reporting to foot-traffic or busy POIs to expand the usefulness of a Waze-like platform.

Requirements – Functional

- Accounts
 1. As a general user, I would like to be able to make an account.
 2. As a general user, I would like to be able to log in.
 3. As a general user, I would like to be able to change account details from the Account page. (Username, Password, etc.)
 4. As a general user, I would like to be able to delete my account.
 5. As a general user, I would like to be able to change my username/password on the login page from an email if forgotten.
 6. As a general user, once logged in, I would like to be able to access the Account, Schedule, and Interactive Maps pages.
 7. As a general user, I would like to be able to send friend requests to other accounts.
 8. As a general user, I would like to be able to accept or deny friend requests from other accounts, as well as be able to unfriend users.
 9. As a user, I would like to be able to report accounts.
 10. As an admin, I would like to be able to ban accounts for misconduct.
- Events & planning
 11. As a general user, I would like to be able to schedule events.
 12. As a general user, I would like to be able to share events with friends.

13. As a general user, I would like to be able to add locations to events.
 14. As an event coordinator, I would like to be able to communicate with event attendees.
 15. As a user, I would like to be able to subscribe to and unsubscribe from events.
- Interactive Map
 16. As a general user, I would like to be able to see my location on the map.
 17. As a general user, I would like to be able to select a location on the map and see details about it.
 18. As a general user, I would like to be able to navigate the map and snap back to my current location.
 19. As a general user, I would like to be able to search within the current location-base.
 20. As a general user, I would like to be able to place a pin on the map at a specific location.
 21. As a general user, I would like to get directions from my current location/a specified location to my current location/a specified location.
 22. As a general user, I would like to be able to toggle different map layers (Tunnels, sidewalks, etc.).
 23. As a general user, I would like to find nearby vending machines and restrooms.
 24. As a commuter, I would like to be able to select my mode of transportation.
 25. As a general user, I would like to report blocked paths and closed locations.
 26. As a general user, I would like to report a busy area.
 27. As a general user, I would like to be able to report temporary POIs (food trucks, events, etc.).
 28. As an admin, I would like to be able to add and remove locations.
 29. As an admin, I would like to be able to edit location details
 - Avatar customization
 30. As a user, I would like to see my avatar on the map.
 31. As a user, I would like to be able to customize my avatar.
 32. As a user, I would like to earn currency from reports for customization purposes.
 33. As a user, I would like to be able to spend currency for extra customization options.

34. As a user, I would like to be able to view the avatars of other users.
35. As a user, I would like to be able to toggle my location visibility for other users.

- **Functionality**

36. As a user, I would like to be able to report bugs and/or crashes.
37. As a user, I would like to add suggestions for new locations and paths.

Requirements – Nonfunctional

1. As a developer, I would like to be able to securely store sensitive user data.
2. As a user, I would like pathfinding to be performed in a reasonable time.
3. As a user, I would like the app to have virtually no lag despite user counts.
4. As a user, I would like the app to be functional 24/7.
5. As a developer, I would like the app to be free from bot accounts.
6. As a developer, I would like the app to be safe from spam-based attacks
7. As a developer, I want database queries to be safe from injection.
8. As a developer, I want to maintain a separate front-end and back-end.