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Team 5 - Product Backlog

Problem Statement

Students at Purdue, especially those who are new on campus, can often find themselves confused when it comes to class schedules, course assignment dates, campus locations, and more. Our team will create a mobile software application that will allow students to keep track of all of those things in a clean and fast manner.

Background Information

*//To-do: include background information about the problem, the domain, and targeted users,
Mention whether there are any applications or systems that are similar to your planned work,
Discuss the limitations of other solutions and how you address each limitation*

We would like to design a mobile application that helps Purdue students organize their course schedules. Sometimes it is hard to determine when two people have mutual free times throughout a typical weekday. We determined that creating a scheduling app that allows users to share their schedules on a unified GUI will let users figure out when they have free time with a friend. We also wanted to have a simple and lightweight app that will help freshman and other students navigate to unknown buildings on campus. The target users will be freshman students new to campus.

Although the existing Purdue app on both Android and iOS devices seeks to accomplish these things, it is flawed in many ways and does not offer the advanced features that our app will provide. While the Purdue app does have the functionality of having a map system to help navigate students to campus buildings, our app will provide better functionality that lets students see which buildings their classes is being held at, as well as the option to see how long it will take them to get from one class to another. As mentioned before, our app will also implement scheduling features along with social connectivity, which are two things that currently the Purdue App does not have. If we have time, we would also like to implement extra features, such as KnowBeforeYouGo, that would provide more functionality for our users and would set us apart from the Purdue App.

Requirements

1. Functional Requirements

- As a user, I want to see my schedule whenever I need it.
- As a user, I want to be able to use the gps system to navigate between my classes.
- As a user, I would like to add the classes to my schedule in an easy manner.
- As a user, I would like to see the buildings where my classes are marked with numbers based on the order of my classes.
- As a user, I would like to be able to compare my schedule with my friends.
- As a user, I would like for the app to suggest classes for me based on my interests.
- As a user, I want to be able to see my schedule profile after I log in.
- As a user, I would like to be able to see and review which toilets on campus are the best ones to use by using KnowBeforeYouGo. (if time allows)
- As a user, I would like to send requests via Facebook, Twitter, and etc. to suggest to other friends to use this app. (if time allows)
- As a user, I would like to see campus events that are happening when I have free time available in my schedule. (if time allows)
- As a user, I would like to be able to create events, and invite my friends who use the app to these events. (if time allows)
- As a programmer, I want to be able to have a database of all the students.
- As a programmer, I want to be able to have a database of all the classes, including times that they meet, dates that they meet, etc.
- As a programmer, I want to integrate Google Maps with the application.
- As a programmer, I want the students login information to be secure
- As a programmer, I want to be able to match various campus events going on to users who have free time on their schedules via Purdue's Event server, and be able to suggest the user to attend. (if time allows)
- As a programmer, I want to be able to have a database of user-created events, and to give users the functionality to send an invitation to other users to join or decline an event. (if time allows)

2. Non Functional Requirements

- **Usability:** We want our mobile application to be very intuitive and have the customers to easily navigate through our app with little or no difficulty.
- **Reliability:** Our application should work when expected, and should not produce errors/failures on a daily basis.
- **Offline Capability:** Users should be able to access the application with or without having access to the Internet.
- **Extensibility:** We want to be able to add extra features and customizations for future upgrades of this product.

- **Stability:** We want most of the features that we implement to be as stable as possible so that we can be able to reuse our code and to also prevent bugs from appearing in our app releases.