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CS 307

Team 5 - Sprint Planning Document

Sprint Overview

Given that we are just beginning we need to start developing user stories related to the essential parts of our program. This sprint we aim to accomplish:

- Creating a server and database to which we can host our application
- Develop our platform using Xamarin to support multiple mobile devices
- Design the framework for our UI to be added to in future sprints

Scrum Master: Milia Enane

Scrum Meeting Time: M, W, and/or F at 12:30 p.m. (possibly Sundays)

Risk and Challenges:

- Our main development concerns will be learning and utilizing Xamarin.
- Setting up the server and accessing the database will be other significant issues we will encounter.
- Creating and utilizing a basic framework for our UI will also be an issue that we aim to address.

Current Sprint Detail

- ***User Story: As a programmer, I want to be able to have a database, including all of the classes, students, events, etc.***

Task Description	Estimated Time (hours)	Owner
Need to use some of the Purdue API in order to collect the list of classes and their times	15	Michael
Organizing the collected data to be used in a fast and easy manner	5	Brandon
Connecting our database to an online server	5	Kenny
Setting up a server for our application to connect to	10	Kenny
Create the other classes for student, events, schedule, etc.	5	Michael

Acceptance Criteria: When we tap on the schedule button, then we should be able to choose a class and see it's name, start time, end time, and days when it is available.

- ***User Story: As a programmer, I want to create functional applications using Xamarin.***

Task Description	Estimated Time (hours)	Owner
Learn to create a basic UI in Xamarin	5	All group members
Gain more experience in C# programming	3	All group members
Link Xamarin to Github	1	All group members
Study basic functionalities of how to use the cross platform features	3	All group members

Acceptance Criteria: When we create a basic UI that functions dependably on both Android and iOS devices, then our criteria will be met.

- ***User Story: As a programmer, I want to be able to implement a basic framework for our UI.***

Task Description	Estimated Time (hours)	Owner
Create a map display that has an overlay of the campus buildings	2	Jake (Android)
Develop a schedule view that holds the visual representation of the classes for that day	5	Milia (iOS)
Construct a basic friend page that has an example of what the friends page will eventually show	2	Milia (iOS)
Design a calendar view for looking at a different day's schedule	5	Jake (Android)
Set up a settings page so users can alter privacy settings, user settings, notifications, etc.	6	Brandon (Android)

Acceptance Criteria: When we display a map, create the schedule view, develop a dummy friend page, and allow the user to check their schedule for a different day, and access the settings page, then the criteria for this user story is met.

Backlog

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 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.