

CprE 492 - sdmay19-40

Bi-Weekly Report 1

Winter Break and 1/14/2019 - 1/27/2019

Client: IBM Call For Code

Faculty Advisor: Diane Rover

Team Members:

David Boschwitz - Team Lead

Caleb Nash - Lead Frontend, Maps Guy

Justin Kaufer - Research & QA

Austin Keen - Designer & User Experience Lead

Bobby Schedler - Lead Backend

Logan Fladung - Subject Matter Expert & Graphics

Past Week Accomplishments:

Caleb Nash - Researched Xamarin.Forms.Maps

Spent a short week looking through documentation to make sure that it was feasible to do what we wanted to do using Xamarin. Unfortunately, it took way longer than we expected to find good solid documentation and examples of things that were similar to what we wanted to do.

Justin and I ended up finding some documentation online that could really help in the future when we dive head first into the maps development next week. We initially started by just making a simple map interface that lets a user place a pin at certain coordinates, which was simple for the time being, as we want to be able to place certain custom pins in specific locations and extend our capabilities to be able to highlight routes and send alerts of traffic problems.

David Boschwitz - Admin work

This week I did a lot of administrative work to prepare the team for the semester. I met with Diane to discuss team cohesion, and talk about the future plans, and progress over break. I revamped part of our git inventory, and did some research on components I was going to work on.

I also began development on our Networking component, and made two initial commits to set up others for development on their components.

Robert Schedler - Practiced with GUI

I think my biggest weakness in programming is interfacing with the user. I think I needed to have a better understanding of how markup languages like XAML work or how all GUIs work for that matter. So I spent some time learning about XAML in preparation to work on some of our applications features.

Austin Keen - Show off App UI and gather input(break) and plan out XAML (in-session)

For this sprint, I showed my UI to a diverse group of people over winter break to gather input from a variety of demographics. After break, I began to plan out the components from XAML that I will use when putting together the applications UI and routing. With the planning of XAML, I have also completed research on routing in XAML, so that there is a seamless and convenient user experience.

The input I gathered from the people I communicated with over break allowed me to plan out a better UI that I will create in the next sprint. The researched XAML components and routing will allow me to put everything together in the future when the backend is completed.

Logan Fladung - Learning XAML to create a dynamic News page

This break, I began researching XAML and Xamarin Forms to build dynamic pages for the News section. This is so that we can base the reports off of data from local database. This will require learning bindings and XAML classes that can construct a view that fills it with regularly changing data.

Justin Kaufer - Maps capability research and implementation

This past week I researched the google maps api that we are using to figure out the various functionalities we will be able to implement. I also researched the Xamarin Forms library that we will be able to use for our maps.

Caleb and myself constructed flow documents for what we wanted the maps capability to look like. We decided on having separate maps in the backend for different functions of the map where on the front end it will look like different layers.

Pending Issues

There are no pending issues

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
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Caleb Nash	Location App	4	4
Justin Kaufer	Maps and api research	5	5
David Boschwitz	Finalizing Documentation	8	8
Logan Fladung	XAML research	6	6
Austin Keen	Break: Show off App UI and gather input In-Session: Plan out XAML	10	10
Robert Schedler	XAML research	4	4

Plans for Coming Week

David Boschwitz - Continue Core

Next week I will continue core development.

Caleb Nash - Some development research over break

Over break I plan on working on this project slightly. Not too much though. Plan on preparing for next semester which will be development-heavy.

Robert Schedler - development over break

I plan to get a good start on the back-end over break. I would like to design a interface that every team member can easily understand and implement.

Austin Keen - Overhaul UI Mockup and Research Implementation

I plan on overhauling the original UI, because it seems to be far too blocky and ugly for users to have a pleasing and easy experience. I have also talked to David, who has an idea about how we can easily transport the UI from the Adobe XD design studio to the Xamarin application.

Logan Fladung- Continue News Feature Development

Over the next week, I will continue researching XAML/Xamarin Forms so I can make the NewsPage view populated. I will also begin writing the C# required for the News section.

Justin Kaufer -

Caleb and I will focus on producing a minimum viable product for the maps capabilities. We will work on implementing google maps api with Xamarin Forms in order to have some sort of functionality to begin testing.