SE 491 - sddec20-07
Creating the New Face of Buildertrend
Week 9, 10, 11, and 12 Report

March 2020 - April 2020
Client: Buildertrend
Faculty Advisor: Mai Zheng

Team Members:

Mitchell Knoth - Team Meeting Scribe
Melissa Hernandez - Team Communications Leader
Dallas Evers - Team React Expert/Code Reviewer
Joshua Bump - Team Webmaster
Kailyn Mann-Calaway - Team Reports Manager
Darnesha Randle - Team Leader

Bi-weekly Summary:

Continuing our bi-weekly meetings with Buildertrend. Talked over with Daric of some strategies they use for how to go about the structure of how the React code should look like. Our first tech discovery is currently being reviewed by Cameron and Daric, but is finished unless told otherwise. Individuals on the team are getting started on the Data Science Information page and putting in the first steps to the React migration part. We will continue to work on the Data Science Information page given that it is our first page that we have been given. Daric gave us a good reference to completed pages called *Common Weather Display, Daily logs, etc* for helping us give a good idea of how we would want to do our Data Science page.

Individual Contributions:

Name	Individual Contributions	Bi-weekly Hours	Cumulative Hours
Mitch	Bitbucket repo fully working. Looked at tech discovery. Trying to figure out how to divide work up.	3	26
Dallas	Tech discovery for page functionality, api calls, and layout. Began coding setup and work on actual react page.	15	46
Melissa	Met with Buildertrend, discussed migration approach	20	52

	for our page, and worked with Team Help to fix some of the problems I had been facing with my AWS workspace.		
	Filled out the API section of the tech discovery by viewing which API calls are being made by the data science info page, as well as what response/request JSON objects are necessary. Familiarized myself with the current behavior of the DSI page which will need to be maintained in our React page.		
	Set up plop template and data science info folder structure in VScode, as well as a branch for our group in the Buildertrend Bitbucket. Also began building the form for our DSI page, adding components for 4/5 questions on the page. Modified the DSI entity object, interface, and Formik section as well to reflect the components that were added to the DSI page and to make sure all the validation/type requirements for our components were met. All of my code has been pushed to Bitbucket.		
	Currently looking over existing React pages in the Buildertrend repository, specifically the API handlers of these pages, to familiarize myself with the requirements and expectations we will need to meet for our DSI API handler class.		
Joshua	Updated Team website. Starting setting up BitBucket on the virtual machine. I have been working on getting accustomed to the codebase that Buildertrend uses.	5	25
Kailyn	Looked over tech discovery. Looked at Buildertrend's code submission process and coding standards. Verified access to all Buildertrend accounts.	4	23
Darnesha	Verified that I have access to all of my Buildertrend accounts. Met with BuilderTrend and discussed our first page that we will be converting. Looked over Tech discovery. Looked over Buildertrend code base and Confluence pages to learn about BT coding standards and code submission process.	5	15

Pending Issues:

- Buildertrend has many types of "standardized" React components already created, which we have access to and can use for our page. Most of the components we will need already exist, however there is a tile component that we will need to build ourselves as there is no BT component that matches what we need. The UX team wants the design of the page to stay the same, so we will need to build this tile component from scratch.
- Due to the Coronavirus pandemic, our team will have to work remotely from now on. This will pose challenges to meeting, especially if Buildertrend's employees begin to work from home soon (this is uncertain as of right now)

Plans:

- Moving forward, we will stay in contact with Buildertrend and will continue to host our regular Skype meetings.
- We will continue to do our individual contributions to the Data Science page and will figure out a way of how we want to divide the work up amongst our team.
- Our project has progressed slowly due to various roadblocks throughout the semester. We will likely only be able to finish one page from now until the rest of the semester, and it is likely we will have to finish the other two pages next semester.