SE 492 - sddec20-07
Creating the New Face of Buildertrend
Week 9-10 Report

January 2020 - November 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:

During the past two weeks, we have been working towards completing the assigned pages. We had been splitting up the work up until this last week and have found that it has been difficult to make as much progress as we would have liked to. In addition, we had been having trouble running the website locally on the Virtual Machine and we now are able to, which will make development easier.

We met with Daric and Cameron from Buildertrend for our biweekly meeting. During the meeting, we discussed various things including our progress and goals for the rest of the semester. We have decided that we plan on having half of the remaining pages by our next meeting with them and the other half by the end of the semester. We were also told that some parts of the project we had been working on understanding so we could complete it had already been done. This had to do with the APIs that we need to call in our pages.

We have decided that our best approach to finish this project is to use Paired Programming and plan on having multiple sessions of this. Since a few of us do not understand the codebase structure as much as others, this will ensure we do not get stuck too much. One of the bigger and more frustrating aspects of this project has been that the client naturally knows a lot more about the code base than we do. It often feels like our client expects us to know just as much as they do. During our 10/23 meeting, our client finally walked our team through the code base and explained the setup of everything to our team, solving most of the confusion that had been holding our team back throughout most of the semester. This walkthrough was something that would have been very beneficial to our entire team at the beginning of the semester, not towards the end of it.

Individual Contributions:

Name	Individual Contributions	Bi-weekly Hours	Cumulative Hours
Mitch	Worked inside the repository and gained a better understanding for the overall architecture of our project. Spent time programming boilerplate logic for the InternalUserPermissionsPresentational.tsx layer. This is the part of the code that will be used for displaying the React components on screen for the user to see.	5	16
Dallas	Got most of the sections done for the preference page but still need to link them up fully with the presentation layer. Spent a decent amount of time trying to trouble-shoot getting the back-end fully functional, so I could fully test the api but it appears that the issue is on Buildertrends side.	12	26
Melissa	I spent time over the past couple of weeks trying to make progress with the Job Access tab. I built the API handler for it, only to be told by Daric during out 10/23 meeting that we don't need to build additional API handlers—we can just use the higher-level Internal Users Details API handler. This was frustrating because it meant my work wasn't necessary. I also spent time trying to fix some compilation errors that I was getting with the Job Access folder structure. Again, Daric informed us that the only two files we need to create for each tab are the .tsx and .less files. This would have saved me a lot of time spent if I had known this prior to beginning the Job Access tab. My next step will be to rollback a commit into the repository because I had already pushed my changes to the repo by then.	6	22
Joshua	I now have the website running locally on my device with Storybook and have been able to walk through how the code is structured. I have also looked at the information collected from the Tech Discovery. In addition, I updated our team website.	3	13
Kailyn	Attended the meeting on 10/23. I have continued looking over the code and have set up a day to do paired programming.	3	15

Darnesha	Gained a better understanding of the overall architecture of our project. Completed 90% of the final presentation, started updating the final report, and made the poster template.	10	30

Pending Issues:

- We have been struggling with getting as much progress as we would have liked to. This occurred due to various things including the virtual machines and getting access.
- Our workload is the biggest problem our team is facing this semester. We are all working remotely and are incredibly overwhelmed with work from other classes. It has been extremely difficult to find the time to make any significant progress on this project.

Plans:

- We plan on utilizing paired programming to help all of us further understand the code base and make more progress. If we work on the project together instead of individually, we hope that we can have more breakthroughs and can achieve more to help finish this project.
- Additionally, we will begin scheduling time to work on this project in advance instead of trying to find the time to work on it, as the latter has not been working thus far.