

CPRE 492 – BIWEEKLY REPORT 3

2/14/2020/-2/27/2020

Group:SDMay20-51

Project:CNAT

Client:In Motion Care LLC

Advisor:Daji Qiao

Team Members:

Brandon Elizondo *Team Lead*

Kirkland Keith *Scribe / Communications Manager*

Suzanna Gudivada *Report Manager*

Austin Sehnert *Lead Software Engineer*

Benjamin Zaley *Lead Test Engineer*

Biweekly Summary

We have made significant progress on both the front- and back-ends of our project because we have finally overcome some major obstacles found while dealing with the database rewrite. Over the last two weeks, we've met with our client twice and spent 10 hours as a team to sit together and make progress collectively. We've designed all the front-end screens that were assured to our client and over the next two weeks we will create the functionality of these screens by tying the front-end with the back-end operations. Brandon has implemented Redux into our web application that will aid us in keeping track of the states throughout the web application. Redux is a JavaScript library which is popularly used along with ReactJS. Our back-end team has finished the database schema and is working on creating the APIs for the functionality of the screens.

We faced two technical issues that were sorted this week. One was a GIT merge cloning a navigation bar twice into our project making some screens not accessible from the homepage, upon deleting the extra one the functionality was restored. Another issue was a CSS functionality in our Maps screens to help change shades based on our client's previous requirements, debugged and GIT version control helped us point to the issue which was detached from our code.

Past Weeks Accomplishments

- Routing between the screens completed

- Pages specified by the client have been implemented
- Database design has been completed
- Tested and confirmed multiple Data Transfer Object (DTO) structures that work depending on types of queries and entities.

Pending Issues

- Database needs to have the capability to log acknowledgements from care plan viewers.
- We need to create a unified API design that will allow fewer (preferably one) endpoints to simplify the design of the back-end

Individual Contributions

Name	Individual Contribution	Biweekly Hours	Cumulative Hours
Brandon Elizondo	Completed employee pages: adding, editing, viewing. Implemented redux to allow for state management between components without passing arguments down the entire line.	19	40
Austin Sehnert	Built Care Plan Log page Built out Transfer & Mobility Edit page Changed code to make transition to real data easier Deleted copy of Nav Bar that was causing issues	18	33
Suzanna Gudivada	Worked on debugging an error on CSS in the Maps page. Implemented homepage with thumbnails of the most frequently visited pages	18	30
Benjamin Zaley	Finished all main components of database schema. Created local version of database to test data injection via SQL scripts. Created space for additional expansion of care plan database tables. Working on implementing efficient logging of all changeable entities in database.	14	28
Kirkland Keith	Restructured backend framework to fit the new schema of the database; implemented local version of database to test SQL scripts executed on the backend; put focus on working on initial Data Transfer Objects (DTOs) that store the results from SQL	18	32

	queries in an usable way for frontend; began preparing backend to be deployed on Google Cloud Server		
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Plans For Upcoming Weeks

- Brandon Elizondo: Work with the back-end team to create an API design that will allow us to generalize API calls. Implement an API controller to facilitate API calls on the front-end and parse information easier. Add the API controller to the employee pages.
- Austin Sehnert: Finish building the rest of the Care Plan Edit Modals once received from Client.
- Suzanna Gudivada: Implement the map and other pages into the navigation bar while implementing in Brandon's router screen flow. Expand the rooms selection and start cleaning up code to establish same formatting all over the webpage.
- Benjamin Zaley: Add logging capabilities to the database, Create scripts to fill database with large amounts of data locally to test functionality of queries under large loads. Move database to be hosted on Google Cloud.
- Kirkland Keith: Work with frontend to build API design as spoken above. As part of this, ensure respective controllers, repositories, and Data Transfer Objects (DTOs) are made to support what is needed from the front end. Deploy current backend product to Google Cloud Server

Advisor and Client Meetings Summary

Our team met with our project advisor, Daji Qiao on February 26th along with our client. We discussed the current progress of our project and demoed what we have so far and explained what we were working on. Our client also discussed our progress and briefed us and Dr. Qiao about the progress his company has been making and where they are falling behind on mockups.

We meet with our client every Sunday to discuss progress and any requested changes. On February the 23rd, we met for 7 hours to work on the project with our client and some of his team. We were able to discuss directly with them while working and make significant progress.

We have scheduled our next meeting with our advisor on March 25th.