

# CPRE 491 – WEEKLY REPORT 4

10/21/2019-11/2/2019

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*

## Weekly Summary

Our project's name is decided on CNAT. Expansion of CNAT: CNA Tracking. We used this week to sprint on our project using HackISU XI conducted by Iowa State University, as a platform and a fun environment to code. Before our hackathon sprint, we met with our client to understand his expectations and to discuss our game plan. Our client included two more requirements: integrate an already existing system into our website and a large scale map of the Green Hills community. During the week, we got access to our client's Google Cloud hosting our project's MySQL. We made good progress on both front-end and back-end though, we several issues came up. While implementing our client provided care tracking system into our website, we realized the previous system was written in JS while we are doing our project in ReactJS and the database tables don't cater our need and our client wants minimum changes to the structure of the database. Our team will be working into the next week to overcome these challenges.

## Past Week Accomplishments

- Worked on refining the frontend features
- Began work with the project database
- Began work with setting up the Spring Boot backend and API

## Pending Issues

As mentioned above we are carrying our database and implementations challenges into the week. Our team needs to find a solution to implement changes into the structure of the database with minimal alterations. Rewrite care plan application to integrate it into CNAT. Finish implementing maps and start defining and implementing further usage of

API. We are debating and researching ways to tackle these obstacles. While we still have to meet the co-founders of Green Hills Community Center to approve our GUI design and give us feedback.

## Individual Contributions

Name	Individual Contribution	Weekly Hours	Cumulative Hours
Brandon Elizondo	Wrote new interface and library for map Tied views together (logic/data) Set up API calls for when that is set up	16	39.5
Austin Sehnert	Built home screen and link to tracking application. Have access to old application. Incorporated calendar on Nurse & Room pages	16	31.75
Suzanna Gudivada	Expanding the rooms map of Aspen Court Incorporating the Green Hills Community map to then navigate to individual courts Figuring out how to switch between the maps and to show a mini-map in a corner.	11	29
Benjamin Zaley	Created visualization of client database in the form of an ER diagram. Discussed current database configuration with client. Negotiated for creation of addition table "Events" that will track when a nurse changes from one zone to another. Created data models within Spring Boot for several tables in the database, allowing for polling of data from backend and sending it to frontend	14	32.75
Kirkland Keith	Initialized the Spring Boot Server to begin work on the backend. Created initial API calls for testing of the backend. Connected backend to both the database and frontend. Got the backend running on the client's Google Cloud Platform..	16	35.5

## Plans For Upcoming Week

- Meet with founders of Green Hills Community Center to discuss screens with further requirement.
- Find solution to the current database structure
- Implement maps
- Define and implement usage of the API.
- Find solution to implement care plan into CNAT.

## **Weekly Advisor Meeting Summary**

We will be meeting with our advisor on 11/05 to show him the progress we made over hackathon and discuss our challenges and concerns.