
EE/CprE/SE 491 Weekly Report (1/27/20 - 2/9/20)

Group Number 001

Client: Brockman, Nathan - Reiman Gardens

Advisor: Vaswani, Namrata

Project Manager: Jay Amin

Project Planner: Mark O'Meara

Project Organizer: James Lockard

Communications Director: Adrianna Kallis

Documentation Designer: Matthew Markrose

Test Engineer: Manthan

Small Pupae Big Data

9th February 2020

Weekly Summary

The group researched various pieces of the project to bring full connectivity between front-end, back-end, analytics, and data. The data received was pulled from the MS Access database and broke down into csv files to sort through. Though having the data, it was difficult to determine the type metrics and analytics the client desired. Some data visualizations were created for feedback in the upcoming meeting as well as several questions that came about from sorting the data. To prepare for after the coming client meeting, graphing and database functions were looked into to get a start at a more abstract level in consuming the data to come. The remaining tasks were also broken down to a more granular level to help with project management. Much of the coming week will be centered around data processing and data storage to bring the remaining pieces of the project together.

Past Week Accomplishments

Team Member	Work Done
Jay Amin	<ul style="list-style-type: none">● Applied linter settings to help with code styling cohesiveness● Started internal development manual for tech stack and setup● Prototyped two different layout views for overall UI design● Set up monday.com account and transferred tasks● Broke larger deliverables into smaller tasks into monday.com● Started use case analysis to determine potential costs of usage for client● Prepared additional questions for Nathan / Reiman Gardens● Updated team website with latest content

Mark O'Meara	<ul style="list-style-type: none"> ● Researched Vue graph and chart plugin options ● Used vue-google-charts plugin to create placeholder graphs for emergence data ● Meeting with professor
James Lockard	<ul style="list-style-type: none"> ● Worked with CSS to make navigation float ● Played with various UI elements for UI work ● Extracted data into excel files from MS Access data <ul style="list-style-type: none"> ○ Sorted data into data related to species and facility ○ Began work on mapping database elements and planning layout using a database diagram ○ Generated document for questions around data collection
Adrianna Kallis	<ul style="list-style-type: none"> ● Worked in Python to create metrics and visualizations for use in non-admin accounts <ul style="list-style-type: none"> ○ These will be shown to the client in the next meeting to obtain feedback ● Researched client's previous methods for data analysis ● Worked on data cleaning of larger dataset
Matthew Markrose	<ul style="list-style-type: none"> ● Established connection to Realtime Firebase database ● Inserted data to Realtime Firebase database
Manthan	<ul style="list-style-type: none"> ● Created node project repository locally ● Played with the backend elements of node and firebase

Pending Issues

Team Member	Issues Encountered
Jay Amin	<ul style="list-style-type: none"> ● Potential issue or restriction with data storage since we are dealing with big data and overlooked budget (since we were very focused on the core analysis and design portion of the project)
Mark O'Meara	<ul style="list-style-type: none"> ● Had some difficulties getting the vue-google-charts plugin installed and working.
James Lockard	<ul style="list-style-type: none"> ● Vuetify had complications with its fixed functionality and making the navigation float. ● Data is not collected in an apparent functional format. <ul style="list-style-type: none"> ○ Need to find more information pertaining to data collection as to what is variable and what is consistent across each shipment
Adrianna Kallis	<ul style="list-style-type: none"> ● Client has been slow to respond to questions regarding data given in the Box folder ● Client has given many different formats of data, and it has been

	challenging to determine which data can be expected and which data should be used for full analysis
Matthew Markrose	
Manthan	<ul style="list-style-type: none"> • Still need to integrate analysis aspect of the project

Individual Contributions

Team Member	Previous Cumulative Hours	Hours Week of 1/27- 2/2	Hours Week of 2/3 - 2/9	Hours Cumulative
Jay Amin	82	3	8	93
Mark O'Meara	67.5	4	8	79.5
James Lockard	85	5	10	100
Adrianna Kallis	77	8	9	94
Matthew Markrose	62	8	8	78
Manthan	84	8	8	100

Plans For The Upcoming Week

Team Member	Projected Work
Jay Amin	<ul style="list-style-type: none"> • Finish out pending work that was started (described above) • Finalize input design after client meeting • Start developing out UI with placeholders • Start working on 1-3 main analyses represented in the UI • Video for class • Data and cost analysis
Mark O'Meara	<ul style="list-style-type: none"> • Meeting with Reiman Gardens • Figure out how to fill out a graph with data sent from Firebase • Figure out how to handle creating graphs for multiple different pages
James Lockard	<ul style="list-style-type: none"> • Meet with Nathan and Anita and discuss data that we will be receiving <ul style="list-style-type: none"> ○ What data will be variable per shipment ○ What data will be constant per shipment • Fully map the database and generate a database diagram • Add UI elements for registration and data point collection
Adrianna Kallis	<ul style="list-style-type: none"> • Meet with Nathan and Anita and discuss data that we will be receiving

	<ul style="list-style-type: none">○ What data will be variable per shipment○ What data will be constant per shipment● Continue creating metrics and visualizations to gain in-person feedback from Nathan● Work with UI team to determine best way to visualize analysis for admin and non-admin view
Matthew Markrose	<ul style="list-style-type: none">● Work on creating functions● Functions are intended to perform more complex queries
Manthan	<ul style="list-style-type: none">● Implement other backend features