EE/CprE/SE 491 Weekly Report (10/14 - 10/27)

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

27th October 2019

Weekly Summary

As a group, we met with the client at Reiman Gardens and determined remaining requirements for the project. Using the requirements we were able to form discussions around what technology would best suit our purposes and be scalable for the future. Adrianna also corresponded with our advisor to address data needs and how to best go about performing data analysis. Individually we researched and built small projects based off our discussions around the proposed different technologies.

Past Week Accomplishments

Team Member	Work Done
Jay Amin	- Met at Reiman Gardens with Nathan, Anita, and Abby (as well as team) - Clarified design based on brainstormed questions from previous week and added to notes - Began detailed comparison of front and back end hosting, and settled on Vue front end with python based back end (with either Firebase or MongoDB database and firebase or localhost server for development) - Accessed previous domain and made sure our current framework is capable of doing what we want in our design document
Mark O'Meara	- Reflection - Areas of Professional Responsibility - Meeting at Reiman Gardens with client - Researched different backend technologies we could use - Created an experimental MongoDB database

James Lockard	● Met at Reiman Gardens for client meetings to clarify requirements and discovered priority items. ● Worked on design document for version 2 submission ○ Built gantt chart and contributed to various sections ● Organized project notes for initial project setup.

Adrianna Kallis	● Met at Reiman Gardens with client
	   ○ Discussed specific ANOVA run by the part time student, Abby
	   ○ Learned about Abby's previous and current work on the data analysis
	   ○ Clarified expectations with Nathan and Anita
	● Corresponded with Dr. Vaswani to discuss project goals and the best methods to create our model
	● Researched methods to predict binary response variable

Matthew Markrose	● Cleared questions with meeting with clients ● Took notes on pros and cons of different technologies to communicate with team
Manthan	● Started the project in the discussed framework ● Worked on design document v2

Pending Issues

Team Member	Issues Encountered
Jay Amin	● Run test app with Vue entry UI putting in numbers (and back end in python, possibly via firebase, calculating the average). Possibly with using Firestore or MongoDB injected with Firebase ○ This will serve as a simple test of our front end entry, back end analysis connection, and database trio.
Mark O'Meara	● Need to finalize what backend database and other technologies we are using by meeting with other backend developers
James Lockard	● Need to finalize backend to be able to start initial project setup
Adrianna Kallis	● Need to finalize language to perform data analysis in ● Having difficulty scheduling in-person meeting with faculty adviser, so most communication has been via email
Matthew Markose	● Need to finalize which technologies we are using ● Perhaps retrieve currently deployed code
Manthan	● Need to establish which database to use

Individual Contributions

Team Member	Previous Cumulative Hours	Hours Week of 10/14- 10/20	Hours Week of 10/21 - 10/27	Hours Cumulative
Jay Amin	30	6	7	43
Mark O'Meara	26	5.5	4.5	36
James Lockard	31	8	5	44
Adrianna Kallis	26	6	6	38
Matthew Markrose	25	4	6	35
Manthan	29	4	4	37

Plans For The Upcoming Week

Team Member	Projected Work
Jay Amin	- Work on basic app outlined in pending issues, get communication between vue data, and firebase/python back end - Work on design document and add updates to README - Submit form for Anita
Mark O'Meara	- Make final decision on what backend database and other technologies we are using - Start working on skeleton database and basic communication with database - Design Document - Lightning Talk - Technical Challenges
James Lockard	- Fill out kanban board with programming task items. - Finish design document version 2. - Styling and revising the design document. - Build initial project.
Adrianna Kallis	- Determine language to use for analysis and begin preliminary modeling - Meet in person with Dr. Vaswani - Design document version 2
Matthew Markrose	- Decide on technology - Work on Design document
Manthan	Work on the design document

	- Work on the software project - Assign individual programming tasks

Summary of Weekly Advisor Meeting (Optional/If Applicable)

Throughout the weeks, Adrianna communicated via email with the faculty adviser, Dr. Vaswani. They discussed the requirements of the model, and Dr. Vaswani provided the team with useful documentation regarding multiple statistical approaches to modeling the data.