
EE/CprE/SE 492 Bi-Weekly Report #01

Reporting Period: August 22 - September 16

Group Number: 05

Project Title: Global Reiman Butterfly App

Client: Nathan Brockman (mantisnb@iastate.edu)

Advisor: Ashraf Gaffar (gaffar@iastate.edu)

Team Members:

Bailey Wanders

Samuel Sells

Johann Guepjop Megaptche

Caleb Donavon

Weekly Summary

The team spent the first few weeks of the semester becoming familiar with the project and its requirements again. The team also met with the client to review the end product presented by the Computer Science group that worked on this project last semester. Notes were taken on the likes and dislikes of the product and incorporated into this team's plan for implementation and improvement. The team also began setting up the database and a user authentication process. The team also made sure that all members had a complete understanding of what the implemented database will look like.

Accomplishments From Past Week

- Set up the Amplify environment -Sam
 - Created a CI/CD environment through the amplify console to automatically compile and test code that is pushed to our git repository
 - Set up accounts for the team members to use and briefed them on Amplify's functionality
 - Connected a react application to the AWS services
 - Set it up to be recognized by amplify and downloaded appropriate dependencies
- React App Framework- Sam
 - Created a small proof of concept react application connected to the amplify environment.
 - Set up the use of Cognito to provide a log-in process
 - Created a framework for calling AWS Dynamo database through GraphQL querying
 - The functionality specifically right now is now a direct representation for how we will use it in the app, but it is a mechanical equivalent code wise
 - Set up a S3 server to store images as part of objects
 - Again not direct representation, but mechanical equivalent.
- Worked on personalizing Sign-in through AWS Cognito - Sam
 - Separated log-in process from the automated one provided by Cognito
 - This will allow us to customize the experience
 - Lost some functionality- working on re-implementation
 - Two factor
 - Sign-up
- Working on Dynamic rendering based on user access needs- Sam
 - Using dynamic rendering to load the page based on a variable holding whether or not the user has been logged in through Cognitor
 - The rendered sign-in button will turn to sign out
 - Implemented linking through react-render-dom
 - Next step is to set up dynamic rendering for guests to our web application.
- Cleaned up the main app.js file and refactored some of the code so that it was less cluttered
- Coordinate meetings with client and as a team, compile meeting minutes - Bailey
- Create diagram of existing production database to increase team understanding of what implemented database should look like - Bailey
- Create proposal for implemented database architecture - Bailey
- Set up a few pages for React app so that we can starting working on admin features - Caleb

- Worked on draft design for production database - Johann
- Did additional research on EC2 and Amazon Cognito for possible use throughout the project - Johann

Pending issues (if applicable)

- Reimplement AWS Cognito functionality without using the automated process
- Find a way to process user-data from AWS-Cognito (different user levels)
 - Right now there are only two levels, guest and someone who has to sign in
- Increase understanding of current production database architecture

Individual Contributions

Name	Individual Contributions	Hours This Week	Hours Cumulative
Caleb Donavon	Create a few pages for React app, Look in to S3 buckets, Study the objects stored in previous database, Cloned the repo and amplify to work on my local machine	17 (since the start of the semester)	17
Johann Guepjop Megaptche	Draft for database architecture. Conducted research on EC2 and Amazon Cognito for integration into project.	15 (since the start of the semester)	15
Samuel Sells	Amplify Environment, Personalizing Cognito, Refactored App.js, Worked on Dynamic Rendering, React App Framework	22 (since the start of the semester)	22
Bailey Wanders	Coordinate meetings, Create database architecture proposal, Create diagram of current production database, Updated use case diagram, Cloned repo and set up local environment	17 (since the start of the semester)	17

Plans For the Upcoming Week

- Migrate data from Client into current AWS storage.

- Ensure that data is properly layedout in database
- If possible, start working on user credentials/login, and/or admin page features

Weekly Advisor Meeting Summary (If applicable/optional)

Professor Gaffar was in attendance at the team/client meeting that took place on September 6th. Professor Gaffar approved of the team's direction and implementation methods, and offered several helpful resources for the team to use.