

EE/CPR E/ SE Biweekly Report 5

10/25/2019 - 11/08/2019

Group Number: 08

Project Title: Artificially Intelligent Requirements Analysis Tools

Client & Advisor: Collins Aerospace & Dr. Simanta Mitra

Team Members & Roles:

- Ryan Cerveny: Scrum Master, Meeting Scribe/Facilitator, Project Lead, Communicator
- Apurva Patel: Project Lead, Report Manager, Technical Support, Communicator, AI Training Lead
- Jonathan Murphy: Testing Engineer, Researcher, Requirement Lead
- Takao Shibamoto: Chief Engineer, Researcher, UI Lead

Bi-Weekly Summary:

Ryan created the database and generated most (if not all) of the tables for the project. Also, wrote documentation on the db and its relations and began creating keys within the tables. Ryan also discussed some of the design decisions with the client.

Jonathan continued his research and experimentation with Siamese Networks, specifically looking into the XGBoost and Word2Vec implementation due to the fact that the client seemed to find that approach the most interesting. Starting next week, Jonathan will transition over to begin working on front-end development and spend less time on the research portion.

Past Week Accomplishments:

Major progress within the database.

Individual Contributions:

Name	Individual Contributions	Hours	Hours Cumulative (continuation)
Jonathan Murphy	→ Continued research and experimentation with Siamese Networks → Discussed current status of research with our client and plan to send him another update early next week	10	Approx. 148

Apurva Patel	—> convert database objects into json format —> sorting algorithm based on the parameter provided by Takao	6	131
Ryan Cervený	Created a database, designed it, and created the tables as well as documentation for those tables. Began working on foreign key creation	15	Approx. 145
Takao Shibamoto	Developing frontend and API Discussed solutions with Apurva	10	120

Plans for the Upcoming Week:

Solidify database design and continue with creating keys within the db and defining necessary relations.