

EE / CprE / SE 491 – sdmay20-43

Analysis of GitLab projects using BOA

Week 5 Report

10/15/2019 - 10/22/2019

Client: Simanta Mitra

Faculty Advisor: Simanta Mitra

Team Members

Diego Realpe - Team Leader | Test Engineer

Adrian Hamill - Test Engineer

Megan Miller - Test Engineer | Website Manager

Benjamin Carland - Test Engineer

Yi-Hsien Tan - Test Engineer | Organizer | Website Manager

Weekly Overview

Since the last report, the team has been separated into two groups: data gatherer and boa language expert. Each group are focusing on their own tasks at hand, and constantly exchanging information to keep each other up to date. Exploring information given (Experts' help and research papers on BOA)

Past Week Accomplishment

Diego Realpe:

- Dr. Mitra wishes to be able to run BOA and data from command line, opposed to how it works now using an Eclipse Plugin. Found out if code can be compiled without Eclipse and look for commands that Eclipse uses for accomplishing this.
- Installed BOA plugin and tested if; Found very little about it so the solution will have to incorporate Eclipse plugins of some sort

Adrian Hamill:

- Met with researchers and talked about how data caching is run in the backend. It is locked to only work with a MacOS.
- Drove to Cedar Rapids, Iowa and bought a Mac Mini 2009 in order to implement the data generation pipeline already created by the graduate research team.

Megan Miller:

- Researched query construction and how to build boa scripts without relying solely on given examples.

Benjamin Carland:

- Boa experimentation and learning about boa syntax of the queries. Looking into how to assess coding quality.

Yi-Hsien Tan

- Spoke to SE/ComS309 TAs to get some information and suggestions about how do they evaluate the functionality of a student's code.
- Separated queries into two parts so far:
 - Commitment
 - Code Quality
 - Contributed to boa educational slide (client requirement) to help us understand boa more.

Individual Contribution

Team Member	Contribution	Weekly Hours	Total Hours
Diego Realpe	Eclipse plugin work, various tests, Areas of responsibility reflection	9	31
Adrian Hamill	Met with grad student, Drove to Cedar Rapids to buy Mac Mini, engineering reflection	11	34
Megan Miller	Boa syntax & query structure	10	39
Benjamin Carland	Boa query testing and experimentation with weird queries	9	31
Yi-Hsien Tan	Query ideas brainstorming and boa slide.	11	40

Plans for Coming Week

Data gatherer:

- Set up Mac Mini
- Strain test Server since it only uses 2 threads, should be fine, execution time is not a concern for Mitra

Boa language expert:

- Work on the next boa educational slide (4 in total).
- Schedule a time to meet with boa expert (Sumon) to clarify questions regarding boa language.