EE / CprE / SE 491 – sdmay20-43
Analysis of GitLab projects using BOA
Week 7 Report

10/30/2019 - 11/05/2019
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

Boa Team met with the Boa graduate student, Sumon and asked him some questions outlined in the TODO of the previous report. The negative answers he gave us didn't satisfy our client / advisor. He wants to get straight answers from Sumon.

Past Week Accomplishment

Diego Realpe:

- Branched off into reading about software managers and how they use commit rates and spikes in these to relate code quality. Findings say that when spikes of code are found close to deadlines, bugs and errors are much more likely to be found. Same concepts could apply for 309 students.

Adrian Hamill:

- Completed setting up and proof of concept data generation with the mac mini starting development on generating original data from Gitlab

Megan Miller:

- I spent this week researching different types in boa, different types of built-in aggregators and functions, and how to build simple scripts.

Benjamin Carland:

- Looked into FindBugs as a potential program to use in addition to Boa. Primarily testing the limits of the software in the eclipse plugin.

Yi-Hsien Tan
- Came up with some ideas for scripts that test for commitment:
  - How many commits on each project? possibly with time stamp.
  - How many commits per person on each project? (could combine all of them)

Individual Contribution

Team Member	Contribution	Weekly Hours	Total Hours
Diego Realpe	Commits related to code quality investigation	8	46
Adrian Hamill	Proof of concept data generation	7	49
Megan Miller	Boa aggregators	7	53
Benjamin Carland	Findbugs testing and experimenting & Boa Presentation 2	10	49
Yi-Hsien Tan	Commitment testing ideas	8	55

Pending Issue

Plans for Coming Week

Data gatherer: Adrian Hamil & Diego Realpe
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Boa language expert:
- Pull together another presentation that builds on last week's lecture.
- Come up with more ideas for boa queries.