

Lightning Talk: Technical Difficulties

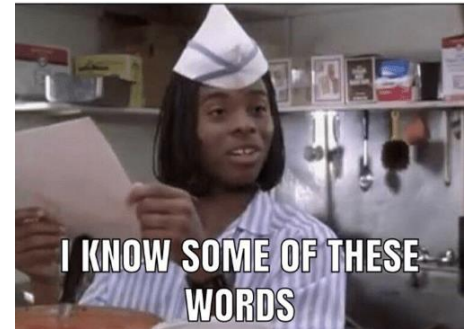
Team 43 SD-MAY-20:

- Yi-Hsien Tan
- Megan Miller
- Adrian Hamil
- Diego Realpe Tobar
- Benjamin Carland



What has our biggest technical challenge been so far?

- As Seniors we all had experience with data manipulation languages. E.g. SQL, MongoDB
- Our client's request to use BOA put us on unfamiliar ground
- SQL and BOA can be wildly different in many areas
- Have to identify tricky information. code errors, code languages
- New syntax and keywords.
- Boa Scripts are run differently
- Understanding the backend for data generation from repositories



Actions Taken!

- More resources were needed
- We contacted our advisor, Simanta Mitra with our concerns
- He connected us to resources and experts to give us insight
- The biggest one were the researchers from the ISU BOA Labs
- We arranged two meetings to focus on two aspects of our project
 - Setting up the project's backend pipeline
 - Learning about BOA syntax



```
78     try{
79         something()
80     } catch(e){
81         window.location.href = "http://stackoverflow.com/search?q=\[js\]"
82         + e.message;
83     }
```

OTC - Data Retrieval Meeting

- Things Revealed in the Meeting,
 - Actual structure of the backend pipeline
 - Creation process for Json metadata files
 - Potential steps for process automation
- Technical Difficulties in Data Generation
 - Sourcing hardware
 - Installing necessary programs
 - Applying that to other repository services



OTC - Understanding Boa language

- Run practice scripts on Eclipse and the ISU website
- Received recommendations from Sumon Biswas
 - Cannot run Boa locally
 - Can run scripts from command line
 - Read boa textbook
- What we need to focus on
 - Understand AST (Abstract Syntax Trees)
 - Know the attributes of the 'Project' object
 - Understand queries