**Meeting Notes: April 1, 2021**

What I did in the last iteration:

* Fixed bugs we talked about last time
  + "None" as title of graphs now has folder being parsed as title
  + Some server nodes had extra text that has been removed
  + Changed physics to be more appropriate
* Worked on Dissertation

What I will be doing next iteration:

**Meeting Notes: March 18, 2021**

What I did in the last iteration:

* Unit Testing
  + Updated old unit test to pass new code
  + Added more unit tests to cover any new additional code

What will I do in the next iteration

* Possibly more unit testing
* Play with physics and visuals

**Meeting Minutes: March 4, 2021**

What I did in the last iteration:

* Did more testing with testinium
  + Found error that was causing graphs not to render, do to a minimise white space option
  + Working on physics stabilisation
* Working on Dissertation

What will I do in the next iteration

* Some unit testing

**Meeting Minutes: Feb 18, 2021**

What I did in the last iteration:

* Was able to test my code while trying to fix errors found through android app. I found a few errors and was able to fix them
  + Found that concept files could not be parsed if there was no resource file of the same name
  + Many regex patterns were not specific enough
* All spec  and cpt files for the android app are being parsed
* Changed UI to allow the user to select a resource folder
* Changing some physics values to try and make rendering more smooth. Found it was best to turn off node physics to get the cleanest looking graphs
* Started dissertation

What will I do in the next iteration

* More testing. Specifically with testinium

**Meeting Minutes: Feb 4, 2021**

What I did in the last iterations

* Fixed sizing of the graph for the PetClinic spec
  + Looking at other specs, I've found more sizing issues
* Changed test names to make them more understandable
* Looked into error company was having
  + Found that the regex patterns do not account for all scenarios e.g. If a word is lowercase. This causes some test steps not being picked up which creates the index out of bounds
* Found some errors when concatenating specs and concepts. Steps not being connected

What will I do for the next iteration

* Start writing the dissertation
* Do more testing with new specs
* Fix node edge error

**Meeting Minutes: Jan 21, 2021**

What I did in the last iterations

* Christmas Break
* Finished and Submitted problem description
* Worked on getting client and server side nodes rendering.
  + A lot of the work went into understanding what format the parsed files went into after they're parsed. And then how to use that to generate the graphs
  + Also how each step of the graphing process happens when using the UI
    - When you select a folder and click parse, every file in that folder is parsed and a graph yaml file is generated. It is then rendered when you select draw graph
* I am using the .json files to get the client side nodes
  + This will require the user to create a json file with each objects information. The use of json file to record objects was seen in one of the Testinium test suite examples
* Currently only have page address as server side nodes

What will I do for the next iteration

* Try and get the client side nodes to connect to the server side nodes. e.g. an object node should point to the server node that is the page it is connected to.
* Fix graph formatting so it is not as spread out
* **APPLY it on TESTINIUM test suite**

**Meeting minutes: Dec 8, 2020**

What I did in the last iteration:

* Started work on java code to parse specs. But scraped due to python code available that already does it
* Created a MBT model (flow diagram) for pet clinic, as been reviewed and improved
* Writing Specs and Concept files in Gauge for pet clinic
  + basing specs on flow diagram and provided MBT suite
* Started parsing out urls in specs to then begin added new nodes to graph (extending the graph generated by GaugeDepend tool?)
* Starting to understand GaugeDepend python code

What will i do for the next iteration

* Present demo (when?)
* Write problem description (or progress document?) for jan

**Meeting minutes: Nov 25, 2020**

What I did in the last iteration:

* Started running testinium gauge test suites (could only find 2019 zip). Some of the tests were failing but this gave me opportunity to edit them to get them to work, and better my understanding.
* Able to get gauge depend to work and open its ui. Generating dependency graphs and smell graphs from testinium translated.
* Edited tests with the gmail sample test suite in gauge depend.
* Examining the dependency graphs. A graph for a spec will point to all nodes (tests) in that spec and then each node points to the steps used. A step is then implemented in java. Multiple nodes might use the same step.
* Thinking about how my graphs would look. Uploaded a file with thoughts (GraphOptions.jpg)
* Testing my knowledge of gauge on petclinic. Have some simple tests running.
  + Have petclinic as a sample web app under my project directory. Should I upload that to my git repository or keep petclinic separate?
    - VG: Up to you
* Reading up on end of semester 1 hand in
  + I need to update project description and workplan
    - Intro
    - Problem description
    - Goals and Requirements
    - Success Criteria
    - Gantt Chart
  + Demo
    - Need to discuss what will be expected for that demo
      * Minimum viable prodcut (MVP)): SIMPLE PROTOTYPE

What I will do in the next iteration:

* Start working on demo and report

**Meeting minutes: Nov 11, 2020**

What I did in the last iteration:

* Researched gauge
  + Gauge is a BDD framework for writing and running acceptance tests. It has a modular architecture
  + Uses specs to run test
  + Each test on spec is broken into steps
    - **VG: Did you write and run some tests in Gauge? The best way learn a software testing tool!**
* understanding architecture flow
  + Tests run from spec ----> client side test e.g logging in ------> service call e.g. details from database for login
* Understand Problem
  + Research found that gauge tests tend to be low quality due to the size of projects and eager testing. This is hard to maintain. And is in need of visualisation so that test engineers can conduct dependency analysis and quality assessment of a given test suite.

What I will do in the next iteration:

* Understand the use of petclinic? Visualise the dependencies for this application? Use gauge to right (write?) Tests for this application?
  + **VG: PetCinic will be one of your Systems Under Test (SUT), to feed to your dependency analysis tool ("**Visualise the dependencies for this application?**"). We will choose another SUT later on, to feed to your dependency analysis tool**
  + **VG: RE:**Use gauge to write Tests for this application?
    - **Yes! You can learn how to do that from the Testinium Gauge test suite, and from the paper I sent you. See my SYSTEMATIC test-case design approach in it: See the two file s"SYSTEMATIC test-case design" in FILES area in Teams**
* Understand how to implement gauge in an application.
  + **VG: What do you mean?**
* **VG: Execute, study, and learn from the Testinium Gauge test suite (see the ZIP file I sent you: 2020-Jan-27-testinium\_translated).**
* **VG: Run *GaugeDepend*tool on the Testinium Gauge test suite and learn the dependency concept**
* **What to write/hand in for Dec milestone?**

**Meeting minutes: Oct 28, 2020**

What I did in the last iteration:

* Looked up and read papers on visualising dependencies and how it can help the solve the problem of analysing large test suites
* Wrote up first draft of my project description and plan

What I will do in the next iteration:

* **Running *Gauge*test tool and the GaugeDepend tool that we developed last year:**
  + Gauge tool:  https://gauge.org
  + GaugeDepend: <https://github.com/vgarousi/GaugeDepend>
    - Demo video: <https://youtu.be/KTqZ4sITg4Y>
    - Technical report by the previous student (Connor Boyle): See the file "*3-Dissertation\_Connor\_Boyle\_Submmitted April 23.PDF*" under Files
      * Please do NOT share the file
  + Two test suites in Gauge, developed by the previous student (Connor Boyle): under Files, see:
    - Testinium\_test\_suite\_translated\_to English
    - 2019-Dec 23-gmailgaugetests-master
* **OLD:**Running MBT-Trestinium test suite
  + Video: <https://www.youtube.com/watch?v=RizUbMhBTho>
  + Install MBT Tool: GraphWalker: <http://graphwalker.github.io/>
    - Open-source suite: <https://github.com/vgarousi/MBTofTestinium>
    - These two students also work on MBT, and they are already running MBT. Feel free to ask to have video chat with them to get help in running the MBT above:
      * Dearbhaile Walsh dwalsh22@qub.ac.uk
      * Conor Morgan  [cmorgan47@qub.ac.uk](mailto:cmorgan47@qub.ac.uk)
* Start planning development in a more detailed manner.
* Start development

**SUTs**

* PetClinic:
  + System itself: <https://github.com/SpringSource/spring-petclinic.git>
  + MBT suite: <https://github.com/GraphWalker/graphwalker-example/tree/master/java-petclinic>
* Testinium: server is not open source
  + testinium.com

**Meeting minutes: Oct 14, 2020**

What I did in the last iteration:

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What I will do in the next iteration:

* I will read the provided papers about the problem.
* Look into the suggested tools to understand dependency graphs