ID: 180917

Course: Software Testing

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Class Summary

In today’s class we learnt about testing web services using cucumber. Cucumber is a testing framework that is based on the Ruby programming language. We were also told about the importance of step definitions which aid in specifying complex syntaxes or functionalities such as making requests to a particular domain or parsing JSON data. The step accomplishes this by referencing Ruby gems in the handling of data.

Cucumber tests applications in a linear fashion, rather than all scenarios executed in parallel. If an error is received Cucumber will abort the current scenario and skip to the next. As a scenario is being run output is printed to the console to assist in keeping track of the test progress by highlighting what is working and what is not.

A plethora of Gems were required for the completion of the class exercise. It took approximately 24 minutes to download all the required Gems. The web framework used in Sinatra which is a lightweight ruby server framework for testing small services. It is not recommended for production. A more feasible web framework is Rails.

1. Build, run, and debug with the simple web service with REST
2. Understand how things work in Cucumber/Ruby
3. Instead of “fruit” web service, test your “user” / “tasks” web service, make sure the service is running and the returned json is as expected, write a feature/scenario in Cucumber to verify these

A file entitled “json\_checker.feature” is included in this folder does this requirement.

1. Test both the Android client app, and the Web service, with Calabash/Cucumber