Deliverable 2

Fat Mike's Pizza Joint - Testing Plan

The Testing Process:

- 1.Write Tests
- 2. Automate running tests
- 3.Collect Data
- 4.Log testing process
- 5. Compare to oracles
- 6.Prepare results for overview

Requirements Tractability: The following requirements will be traced and reported throughout the project as an HTML report

- 1.Reading test cases
- 2.Checking validity of test case's syntax
- 3.Executing test case
- 4.Exporting results of test case to HTML files
- 5.Creating HTML report
- 6.Open HTML in web browser automatically

Tested Items: *Driver.py - Handling imports, handling errors, reporting results from test case *TestCase.py - parsing test cases, parsing single lines, storing values

Testing Schedule:

- •03 October 2017 Have initial five test cases
- •31 October 2017 Initial build of testing framework with first five test cases
- •14 November 2017 Complete Design and building of testing framework with twenty-five test cases

- •21 November 2017 inject faults into code base
- •30 November 2017 Present final report on automated testing framework

Test Recording Procedures:

- •Echo results from test cases into HTML files
- •Compile complete HTML report
- •View complete HTML report in browser

Hardware and Software Requirements:

- •Linux 32-bit/64-bit
- •Python 3
- •Web browser (i.e. Chromium, Firefox)

Constraints:

- •Time: This project takes place over the course of one semester, therefore we must work to complete all of the work before the semester's end.
- •Scheduling: Out of three group members, we must coordinate our schedules and create time to perform the necessary work
- •Complexity: When working with another code base, we may run into unexpected complexity with a foreign code base that we did not expect.

System Tests:

Out-of-scope for this project

First Five Test Cases: These test cases are for a method which take a path as a string, and it will parse the file, checking for correct syntax and creating an array of the fields if the syntax is valid.

- ${\color{gray}\bullet} test Case 00.yml: "test Cases/broken Parse Files/Conflicting Spec Error.yml"$
- $\bullet testCase 01.yml: \\ "testCases/brokenParseFiles/InvalidSpecTypeError.yml" \\$
- •testCase02.yml: "testCases/brokenParseFiles/InvalidSubSpecError.yml"
- •testCase03.yml: "testCases/brokenParseFiles/MissingSpecError.yml"
- •testCase04.yml: "testCases/brokenParseFiles/NullFieldError1.yml"