

Homework 7 Continuous Integration and Coverage

The majority of the remaining uncovered statements are due to exception checking from an external API. However, some statements exist that are uncovered for more recent additions to files. Those files are Controller.py and ExploriumDbApi.py. Because we were actively developing right until the time of this submission, we have some statements that remain uncovered. We will continue to fix them such that our coverage is far closer to 100% before the final demo.

For our continuous integration method we used TravisCI. This CI tool is very modular and was easily integrated with our existing testing tool: pytest and our existing coverage tool: python coverage.

However, a problem we ran into was that it seems TravisCI seems to not wait for our server to startup and, as such, causes errors in most of our system testing. While unit tests still, for the most part, run successfully, this error caused TravisCI to output far more failures than we actually had as well as outputting far less coverage than we actually accomplished.

Below is the statement coverage report from python coverage formatted in a table:

Name	Statements	Miss	Cover
Controller.py	297	130	56%
ExploriumDbApi.py	186	41	78%
Itinerary.py	98	5	95%
ItineraryService.py	46	0	100%
RouteOptimizer.py	79	2	97%
TouristSpot.py	72	1	99%
utils.py	26	0	100%
Total	902	184	80%

Continuous Integration Link: <https://travis-ci.org/rjk2147/Explorium-COMS4156/branches>

Github Link: <https://github.com/rjk2147/Explorium-COMS4156>

The raw output is listed on the next page.

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