

Junit tests were used to provide partial test coverage for the methods in the object classes for my project. The project was tested overall per function in the application class. Since each function was usually given a very specific task, tracing errors was usually straightforward and easy.

Here are some remaining tests for the application class and their results:

Method Being Tested	Input	Expected Result	Actual Result
getUserString() (test through getFileName())	<hit enter> hello	Re-prompt pass "hello"	Re-prompt "hello" is passed
getUserBoolean() (test through saveToFile())	<hit enter> hello 1 Yes n	Re-prompt Re-prompt Re-prompt pass true pass false	Re-prompt Re-prompt Re-prompt pass true pass false
getUserDouble() (test through addNewStation())	<hit enter> hello 1	Re-prompt Re-prompt pass 1	(did not progress since it uses nextDouble())- OK Re-prompt pass 1
getFileName()	FakeFileName CTAStops.csv	Re-prompt succeed	Re-prompts succeeds
retrieveRoutes()	N/A	Routes created reflected in displayAll..	Succeeds
retrieveStations()	N/A	Stations created reflected in variables	Succeeds
displayAllNames()	N/A	Display all station names	Displays all station names
displayWheelChair()	Y n	Display stations w/ wheelchair Display station w/o wheelchair	Displays stations w/ wheelchair Displays station w/o wheelchair
findNearest()	41.88706, -87.80486	Harlem (~0 miles away)	Harlem (0.0)
findInformation() (checks findStation too)	FakeStationName Western o'hare	Reprompt Prompt for which (then display info) displays info	Re-prompts prompts, displays displays
generateRoute()	o'hare, forest park o'hare, howard dempster-skokie, 47th	No transfer, no error one transfer, no error two transfers, no error	No transfer, no error one transfer, no error two transfers, error
addNewStation()	Able to add station in middle in multiple routes at start at end	(each is visible in CTASystem, route numbers update)	Ok ok ok ok ok to green line, fails to red line
findDeleteStation() (checks deleteStation() too)	Western	Western removed, routes updated	Western removed, routes updated
saveToFile()	SaveFile.csv (with one station added /removed)	Changes reflected in csv	Changes reflected in csv