

## Unit Testing:

MessageTesting.java

Tests the Message fromString method in Message class.

Ensures that message can be decoded from String.

Uses the message "h3\*w0\*1" as test.

Outputs:

-On success you will see: Message From String Unit Test: PASSED

-On failure you will see: Sender Position: Expected: h Got:<ActualSenderPosition>

\*\*Where actual position will be the position read from the String

It will list this for all the parameters of the message object.

Then you will see: Message From String Unit Test: FAILED

TicketToMessageConversion.java

Tests Ticket class's addDishToTicket(), toStringForChef(), and fromString() methods

Ensures that ticket can be decoded and encoded correctly so it can be used in a message.

Outputs:

-On success you will see: TicketToMessage Unit Test: Passed

-On failure you will see the expected ticket followed by the actual ticket

Then you will see: TicketToMessage Unit Test: Failed

## Integration Testing:

The first integration tested host interface with changing the status of a table from ready to seated.

In this integration test, two functions were sequentially called. The first function is

testLoadTables() which initially loads all tables and statuses and the second function is testSeat()

which takes the table that is ready and changes its status to seated. We first tested these two

functions individually to ensure that they worked and then tested them sequentially.

We individually tested them as unit tests in the following way:

The function testLoadTables() returns true on success and false on failure to load the tables to the screen. The function testSeat() returns 0 on success of changing the status of a table from ready (r) to seated (s) and redrawing the screen to account for this update. It returns -1 if the host attempts to change the status to seated when a table is not ready.

If both functions passed then the integration test passed and the output would be Integration Test 1 PASSED. If one or both functions failed, the output would show which test or tests failed.