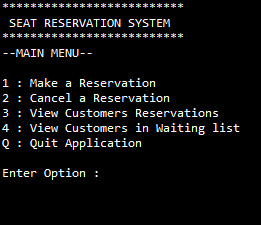
Reservation System

Test Plan

2016

# Test Plan and Results

The test plan is divided into five parts, one for each option in the main menu. Each part tests all the functionality with that option.



*NOTE: I have provided screen shots off the test results.*

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| --- | --- | --- | --- | --- | --- |
| Test | State | Input | Expected Outcome | Actual Outcome | Comment |
| 1 : Make a Reservation | | | | | |
| Option 1 | | | | | |
| 1.1.1 | Reject invalid input | Email :  “JohnSmithgmail.com”  (RESERVATION MENU .1) | Error message stating “Invalid input”.  “Enter Email” message reappears | As Expected – PASSED | *Each input was tested and all passed expect different response specific to each input.* |
| 1.1.2 | Reserve - match | Email : “JohnSmith@gmail.com”  Class : 2  Type : W (window)  Facing : F (forward)  Table : N (no Table)  Ease of access : N (not ease of access seat)  (RESERVATION MENU .1) | Seat number 1 is reserved | As Expected – PASSED | *Seat 1 is the only seat in carriage that matches this description.* |
| 1.1.3 | Reserve – match not overriding previous reservation on seat 1 | Same input as test **1.1.2**  (RESERVATION MENU .1) | Seat number 1 is not reserved.  Return message should state a next best match or no match found. | As Expected – PASSED | *Query found a next best match. This functionality is tested in the next test.* |
| 1.1.4 | No suitable match – Return next best match | *NOTE: Continue on from test* ***1.1.3.***  Click “Yes”  (RESERVATION MENU .1) | *NOTE: Seat 1 is still reserved.*  Message stating there is seat available but is an aisle seat (number 2).  When Yes is clicked the reservation message states that seat is booked. | As Expected – PASSED | *Note: That seat two has 4 out 5 requirements entered.*  *Seat number 2 was successfully reserved.* |
| 1.1.5 | No match found - or no next best match found - customer added to waiting list | *NOTE: seat 15 has been reserved by* [*JohnSmith@gmail.com*](mailto:JohnSmith@gmail.com)*.*  Email : “JohnSmith@outlook.com”  Class : 1  Type : S (Single)  Facing : F (forward)  Table : N (no Table)  Ease of access : Y (ease of access seat)  (RESERVATION MENU .1) | Message displays that [JohnSmith@outlook.com](mailto:JohnSmith@outlook.com) has been added to the waiting list. | As Expected - PASSED | *Note: Only seat 15 matches this description. When it is cancelled* [*JohnSmith@outLook.com*](mailto:JohnSmith@outLook.com) *should be assigned seat 15 and removed from waiting list.* |

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| --- | --- | --- | --- | --- | --- |
| Reserve multiple seats | | | | | |
| 1.2.1 | Reject invalid input | After entering: “JohnSmith@gmail.com” (email part).  Enter : “50,67””  (RESERVATION MENU .2) | Error message stating to of invalid input | As Expected – PASSED | n/a |
| 1.2.2 | No seats reserved - Multiple seats reserved. | Email “[JohnSmith@gmail.com](mailto:JohnSmith@gmail.com)”  Seats : “12,6,31”  (RESERVATION MENU .2) | Seats : “12,6,31” are reserved  Message states that “12,6,31” are reserved. | As Expected – PASSED | n/a |
| 2 : Cancel a Reservation | | | | | |
| 2.1 | Seats reserved – seats unreserved | 2 (MAIN MENU)  Email :  “jonhSmith@gmail.com” | Message conforming cancellation stating  “JohnSmith@gmail.com you have cancelled seat 1 2 6 12 15 31”.  Each Seat reserved value set to Except seat 15. | As Expected – PASSED | n/a |
| 2.2 | Cancel reservation- seat description of cancelled seat matches that of customer’s in waiting list. | n/a  (Continue on from test **2.1**) | Customer “JohnSmith@outlook.com” is assigned seat 15.  “JohnSmith@outlook.com” is removed from waiting list | As Expected – PASSED | n/a |

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| --- | --- | --- | --- | --- | --- |
| 3 : View Customers Reservations | | | | | |
| 3.1 | Main menu – reservations are displayed | 3 (MAIN MENU) | All reservations are printed to the screen | As Expected – PASSED | *n/a* |
| 4 : View Customers in waiting list. | | | | | |
| 4.1 | Main menu – customers displayed | 4 (MIAN MENU) | All customer’s emails in waiting list are printed to the screen. | As Expected – PASSED | *This test was carried out when* [*JohnSmith@outLook.com*](mailto:JohnSmith@outLook.com) *was waiting for seat 15* |
| Q : Quit Application | | | | | |
| 5.1 | Program running – Program terminated | Q (MAIN MENU) | All changes in seatingList.txt, watingList.txt and customer.txt have been added.  When program in executed again all changes made in previous run is visible | As Expected – PASSED | *All data was writing to file and read into vectors correctly when program was relaunched.* |

# Test plan complete all tests passed.