

Test Cases

User

ID	1
Title	Main Menu
Description	To test the main menu works correctly

Step	Description	Type	Expected Result	Actual Result
1	Run system	QN	System opens and main menu displays	System runs and main menu appears
2	Test all menu items load when input	QN	System displays correct submenu or page when valid menu input is entered	
3	Enter a valid input	QN	System loads the correct area of the system.	User is directed to the area they selected
4	Enter invalid data Test Data: '54', 'Three'	QN	Enter message appears, re-runs the main menu loop.	User is told the number is invalid and to enter a valid one.

ID	2
Title	Create Account
Description	The user can create an account that saves to the xml

Step	Description	Type	Expected Result	Actual Result
1	Load Main Menu	QN	System opens and main menu when run	Registration menu appears and lets user enter details
2	Select create account from the main menu, by typing '2'	QN	Create account function runs, prompting the user to enter their details	
3	Enters valid data	QN	System continues to the next detail without any error messages, then prompted with confirmation.	System continues to the next detail without any error messages, then prompted with confirmation.

4	Enter invalid data	QN	User cannot continue to next detail - Error message asking the user to enter valid data such a phone number must be a length of 11 digits.	Validation checks for incorrect length phone numbers, existing emails and different passwords.
5	Data is added to xml file on confirmation	QN	When the customer xml file is loaded, the users details will be inside each field e.g <USER> <NAME> Andrew </NAME> <EMAIL> jj@gmail.com</ EMAIL>	Data is added to the XML
6	User account creation is cancelled midway	QN	If created account is cancelled or not confirmed, system does not write to xml file	XML file is not written

ID	3
Title	Log in
Description	To log in to the system

Step	Description	Type	Expected Result	Actual Result
1	Select Log In from the main menu, by typing '1'	QN	Log in menu appears	Log in menu appears
2	Input valid email, invalid password	QN	Error message occurs, user must re-enter their email and password	Error message occurs, user must re-enter their email and password
3	Input invalid email, valid password	QN	Error message occurs, user must re-enter their email and password	Error message occurs, user must re-enter their email and password
4	Input valid email and password	QN	User directed to menu, account created	User directed to their menu (user/admin), account created
5	Input invalid email and password	QN	Error message occurs, user must re-enter their email and password	Error message occurs, user must re-enter their email and password

Booking

ID	4
Title	Book a flight
Description	To book a flight as a customer

Step	Description	Type	Expected Result	Actual Result
1	Select book flight from the main menu, by typing '3' then '1' on the booking menu.	QN	Flight booking menu opens	Flight booking menu opens
2	Choose an existing flight	QN	User will be able to progress	User will be able to progress
3	Choose a non-existing flight	QN	Error message asking the user to pick another seat	Error message asking the user to pick another seat
3	Choose a valid seat "1, 1"	QN	Users flight gets booked	Users flight gets booked
4	Choose an invalid seat 'AY-SEVEN' / 'A99999'	QN	Error message prompting the user to pick a valid seat	User gets stuck in loop
5	Choose an already booked seat	QN	Error message, asking user to book another seat	Error message, asking user to book another seat
7	Booking is saved to booking xml file upon confirmation	QN	Booking is saved to booking xml file upon confirmation	Booking is saved to booking xml file upon confirmation
8	If system is closed before confirmation, no data is entered into the xml file	QN	If system is closed before confirmation, no data is entered into the xml file	If system is closed before confirmation, no data is entered into the xml file

ID	5
Title	View timetable
Description	Test that the timetable viewing works correctly

Step	Description	Type	Expected Result	Actual Result
1	Check that flight times are sorted	QN	All flight times display correctly, in order of time after begin passed through the sorting algorithm	All flight times display correctly, in order of time after begin passed through the sorting algorithm
2	Ensure the queue works correctly	QN	Flights times enqueue and dequeue on button press	Flights times enqueue and dequeue on button press

ID	6
Title	Create flight
Description	Test that the create flight admin function works correctly

Step	Description	Expected Result	Actual Result
1	Enter an invalid flight number	User will be asked for a valid flight number	User will be asked for a valid flight number
2	Enter an invalid destination	User will be asked for a valid destination	User will be asked for a valid destination
3	Enter an invalid time (minutes or hours)	User will be asked for a valid time	User will be asked for a valid time