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| Test Case: ReserveRoundTripFlights | | | | Test Organization: Team 02 | | | |
| Test Version: Revision 2 | | | | Execution Date: 4/10/16 | | | |
| Description: Verify selected flights are converted to xml, sent to the server, and updated in the database | | | | Executed By: Anthony Botelho | | | |
| SW Baseline**\***: Prototype 0.58-c486865 | | | |
| Preconditions:   * Round trip has been selected along with appropriate seating and date information, a search for departure and returning flights has finished with at least one viable trip found for each, and the user has selected 1 trip from each the departure and returning searches. * Test requires a successful pass from the SearchFlights test case   + Test ensures that the system is able to find flights from a departure to arrival airport on a given date with selected seating   + Test also prints the flight numbers within each viable trip * Test requires a successful pass from the ServerResponseCodes test case   + Test ensures that the system is able to handle and print the response codes returned by the server correctly | | | | | | | |
| Dependencies: Ability to connect to the server and communicate with the database | | | | | | | |
| Step | Actions | Data | Expected Result | | Actual Results | Pass/Fail | Notes |
| 1 | Run SearchFlights test case to get a list of outbound trips | First class -  Depart BOS  Arrival AUS  5/4/2016 | A list of potential outbound trips should be printed | | 6 trips were found and printed | Pass | This step is purely for later validation – run from Trips driver |
| 2 | Run Searchflights test case to get a list of return trips | First class -  return  5/10/2016 | A list of potential return trips should be printed | | 5 trips were found and printed | Pass | This step is purely for later validation – run from Trips driver |
| 3 | Select a flight from each and verify the list of flights selected | 2nd outbound trip selected  4th return trip selected | should contain 5 flights (2 from departing, 3 from return) | | A List of 5 flights was printed | Pass | This is the initial step specific to the ReserveRoundTripFlights test case – run from ValidationController driver |
| 4 | Verify each flight has the preferred seating |  | The printed list of flights should contain an ‘F’ followed by the flight number | | Each flight contained ‘F’ followed by the flight number of each flight printed in steps 1 and 2 | Pass |  |
| 5 | Verify XML is Generated |  | The a valid xml string should be printed to the console (should be contained within <Flights> tag) | | The xml string was enclosed within the Flights tag and contained information on 5 flights | Pass |  |
| 6 | Verify XML contains the correct seating option for each flight listed in step 1 |  | Each flight should contain a member called ‘seating’ followed by ‘FirstClass’ | | Each flight had a member called ‘seating’ and was properly set to ‘FirstClass’ | Pass |  |
| 7 | Verify XML contains the correct flight numbers for each flight listed in step 1 |  | Each flight should contain a member called ‘number’ followed by the corresponding flight number from step 1 | | Each flight had a member called number and was set to each of the 5 flight numbers seen in step 1 | Pass |  |
| 8 | Verify server received and processed the request |  | The server should return a 2xx code | | “Server returned Success” was printed to the console | Pass |  |
| 9 | Verify server is able to indicate failure – using the same information, attempt to book the same trip 100 times |  | After several successes, the server should return a failure code once it is unable to book a flight due to capacity | | Server returned ‘200:OK’ on 8 bookings (including the first), and ‘304:Not Modified’ on the 9th attempt | Pass |  |
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| Postconditions: All requested flights have been reserved for the requested seating on the database | | | | | | | |

**\*SW Baseline represents the commit number and ID at the time of testing**

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| Test Case: parseAirplanes | | | | Test Organization: Team 02 | | | |
| Test Version: Revision 1 | | | | Execution Date: 4/10/16 | | | |
| Description: Verify specific airplane information including airplane manufacturer, First class and coach can be obtained correctly by airplane model. | | | | Executed By: Zheng Nie | | | |
| SW Baseline**\***: | | | |
| Preconditions:   * Test requires a successful pass from the Validation Controller * Test ensures the xml string in respect to airplane information has been validated by the Validation Controller * Test prints the airplane information with regard to a specific airplane | | | | | | | |
| Dependencies: Ability to connect to the server and communicate with the database | | | | | | | |
| Step | Actions | Data | Expected Result | | Actual Results | Pass/Fail | Notes |
| 1 | Pass an airplane model into the parseAirplanes method getAirplane() | Model –  A320 | A list of airplane information including airplane model, airplane manufacturer, first class and coach | | A list containing four elements, [Airbus, A320, 12, 124], has been printed out. | Pass |  |
| 2 | Verify the information in the list in the former step matches the real one in the xml string |  | The xml string should show the same information as that attained in the former step. | | Two results perfectly match. | Pass |  |
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| Postconditions: Two results match. | | | | | | | |

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| Test Case: parseAirports | | | | Test Organization: Team 02 | | | |
| Test Version: Revision 1 | | | | Execution Date: 4/10/16 | | | |
| Description: Verify specific airport information including airport code, airport name, airport latitude and airport longitude can be obtained correctly. | | | | Executed By: Zheng Nie | | | |
| SW Baseline**\***: | | | |
| Preconditions:   * Test requires a successful pass from the Validation Controller * Test ensures the xml string in respect to airport information has been validated by the Validation Controller * Test prints the airport information | | | | | | | |
| Dependencies: Ability to connect to the server and communicate with the database | | | | | | | |
| Step | Actions | Data | Expected Result | | Actual Results | Pass/Fail | Notes |
| 1 | Pass airport xml string as a static attribute of class parseAirports and call method readXML() | Airport xml string | A map of airport information, with airport code as key and a list of airport code, airport name, airport latitude and airport longitude as value, is printed out. | | A map with 52 key-value pairs has been printed out. | Pass |  |
| 2 | Verify the information in the map in the former step matches the real one in the xml string |  | The xml string should show the same information as that attained in the former step. | | The information of 52 airports in the xml string matches the map. | Pass |  |
| Postconditions: Two results match. | | | | | | | |

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| Test Case: parseFlights | | | | Test Organization: Team 02 | | | |
| Test Version: Revision 1 | | | | Execution Date: 4/10/16 | | | |
| Description: Verify specific flight information including departure and arrival airport code, departure and arrival time, first class and coach seating price can be obtained correctly. | | | | Executed By: Zheng Nie | | | |
| SW Baseline**\***: | | | |
| Preconditions:   * Test requires a successful pass from the Validation Controller * Test ensures the xml string in respect to flight information has been validated by the Validation Controller * Test prints the airport information | | | | | | | |
| Dependencies: Ability to connect to the server and communicate with the database | | | | | | | |
| Step | Actions | Data | Expected Result | | Actual Results | Pass/Fail | Notes |
| 1 | Pass airport code, departure date, a Boolean value indicating departure or arrival into the class Flights method getFlights() | Input-  BOS, 2016\_05\_10, true | Lists of flight information including departure and arrival airport code, departure and arrival time, first class and coach seating price is printed out. | | Lists with four sublists , with each containing departure airport time and code, arrival airport time and code, first class ticket number and price, and coach ticket number and price has been printed out. | Pass |  |
| 2 | Verify the information in the list in the former step matches the real one in the xml string |  | The xml string should show the same information as that attained in the former step. | | The flight information in the xml string matches lists. | Pass |  |
| Postconditions: Two results match. | | | | | | | |

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| Test Case: parseTime | | | | Test Organization: Team 02 | | | |
| Test Version: Revision 1 | | | | Execution Date: 4/10/16 | | | |
| Description: Verify the timezone offset used in the transition from GMT to local time can be obtained correctly. | | | | Executed By: Zheng Nie | | | |
| SW Baseline**\***: | | | |
| Preconditions:   * Test requires a successful pass from the Validation Controller * Test ensures the xml string in respect to flight information has been validated by the Validation Controller * Test prints the airport information | | | | | | | |
| Dependencies: Ability to connect to the server and communicate with the database | | | | | | | |
| Step | Actions | Data | Expected Result | | Actual Results | Pass/Fail | Notes |
| 1 | Pass latitude and longitude into the class parseTime method timeOffset() | Input-  Latitude 33.94443  Longitude -118.408356 | A double that indicates the offset from GMT | | -8 | Pass |  |
| 2 | Verify the offset in the former step matches the real one in the xml string |  | The xml string should show the same information as that attained in the former step. And by simple calculation , this geography location is 8 hours later than GMT. | | The offset in the xml string matches the double. | Pass |  |
| Postconditions: Two results match. | | | | | | | |