Sunjil Gahatraj

CST 452

Traceability Matrix

4/15/19

Grand Canyon University

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| ID | Feature | Requirement ID | Design Spec ID | Code Modules | Test Case |
| 1 | Search Flight | FR-1  NFR-6 | Section 3  Section 4  Section 6 | oneWayFlightSearchPage.jsp  Flight.java  FlightDataService.java  FlightDataAcessInterface.java  FlightBusinessService.java  FlightBusinessInterface.java  FlightController.java | TC-1  TC-2  TC-3  TC-4  TC-5  TC-6  TC-7  TC-8 |
| 2 | Flight Search Result | FR-2  NFR-6  NFR-10  NFR-12 | Section 3  Section 4  Section 6 | flightSearchResult.jsp  Flight.java  FlightDataService.java  FlightDataAcessInterface.java  FlightBusinessService.java  FlightBusinessInterface.java  FlightController.java | TC-1  TC-2  TC-3  TC-4  TC-5  TC-6  TC-7  TC-8  TC-2.1  TC-2.2  TC-2.3  TC-2.4 |
| 3 | Search Round trip flight | FR-1  NFR-6 | Section 3  Section 4  Section 6 | oneWayFlightSearchPage.jsp  Flight.java  FlightDataService.java  FlightDataAcessInterface.java  FlightBusinessService.java  FlightBusinessInterface.java  FlightController.java | TC-1  TC-2  TC-3  TC-4  TC-5  TC-6  TC-7  TC-8 |
| 4 | Converted to MAVEN project | TR-14 | Section 7 | POM.xml | TC-6 |
| 5 | Implemented MySQL database | TR-4 | Section 7 | applicationConfiguration.xml | N/A |
| 6 | Deployed application to AWS cloud service | TR-15 | Section 7 | N/A | TC-4 |
| 7 | Implemented SLF4J | NFR-13 | N/A | FlightController.java | TC-5 |
| 8 | Select Flight | FR-3 | Section 3 | FlightController.java, FlightDataService.java  FlightDataAcessInterface.java  FlightBusinessService.java  FlightBusinessInterface.java  viewSelectedFlightsPage.jsp | TC-7.1  TC-7.2  TC-7.3  TC-7.4 |
| 9 | See Selected flights and buy | FR-3 | Section 3 | FlightController.java, FlightDataService.java  FlightDataAcessInterface.java  FlightBusinessService.java  FlightBusinessInterface.java  viewSelectedFlightsPage.jsp | TC-8.1  TC-8.2  TC-8.3 |
| 10 | Payment | FR-4  NFR-23  TR-13 | Section 4 | viewSelectedFlightsPage.jsp | TC-9.1  TC-9.2  TC-9.3  TC-9.4  TC-9.5  TC-9.6 |
| 11 | Personal Information Form | FR-4 | Section 4 | userDetail.Jsp  UserController.Java  User.Java | TC-10.1  TC-10.2  TC-10.3  TC-10.4 |
| 12 | Inserting data into database | NFR-2 | N/A | UserFlight.java  viewSelectedFlights.jsp  UserController.java | TC-11.1 |
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