Tested on:

Eclipse Version:

Eclipse IDE for Enterprise Java and Web Developers (includes Incubating components)

Version: 2021-06 (4.20.0)

Build id: 20210612-2011

mySQL Version:

mySQL version 8.0.26

**Database Table Creation:**

CREATE TABLE `login` (`username` varchar(100) NOT NULL, `password` varchar(100) DEFAULT NULL, PRIMARY KEY (`username`)) ENGINE=InnoDB

CREATE TABLE `flight` (`airline\_name` varchar(100) DEFAULT NULL, `price` decimal(10,2) DEFAULT NULL, `flight\_number` int NOT NULL, `source\_city` varchar(100) DEFAULT NULL, `destination\_city` varchar(100) DEFAULT NULL, `departuretime\_fromsource` time DEFAULT NULL, `arrivaltime\_fromdestination` time DEFAULT NULL, `total\_seats` int DEFAULT NULL, `booked\_seats` int DEFAULT NULL, `dateoftravel` date DEFAULT NULL, `flight\_class` varchar(100) DEFAULT NULL, PRIMARY KEY (`flight\_number`)) ENGINE=InnoDB

CREATE TABLE `register` (`full\_name` varchar(100) DEFAULT NULL, `address` varchar(100) DEFAULT NULL, `age` int DEFAULT NULL, `mobile` bigint DEFAULT NULL, `username` varchar(100) NOT NULL, `country` varchar(100) DEFAULT NULL, `passport` varchar(100) DEFAULT NULL, PRIMARY KEY (`username`), CONSTRAINT `register\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `login` (`username`)) ENGINE=InnoDB

CREATE TABLE `booking` ( `username` varchar(100) DEFAULT NULL, `flight\_number` int DEFAULT NULL, `booking\_id` int NOT NULL AUTO\_INCREMENT, PRIMARY KEY (`booking\_id`), KEY `username` (`username`), KEY `flight\_number` (`flight\_number`), CONSTRAINT `booking\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `login` (`username`), CONSTRAINT `booking\_ibfk\_2` FOREIGN KEY (`flight\_number`) REFERENCES `flight` (`flight\_number`)) ENGINE=InnoDB

Project Flowchart:

* Create User -> Add New User -> Search Flight -> Pick Flight -> Register Details -> Payment Details -> Success
* User -> Check if already bought flight -> bought flight found -> cancel flight -> Search Flight -> Pick Flight -> Register Details -> Payment Details -> Success
* User -> Check if already bought flight -> bought flight missing -> Search Flight -> Pick Flight -> Register Details -> Payment Details -> Success