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| --- |
| USER |
| - username: String  - password: String |
| + User (username: String,  password: String)  + getters and setters |

UML Diagram

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| Flight |
| - airlineName: String  - flightNumber: String  - flightOrigin: String  - destinationCities: String  - airFare: float  - departureTime: String  - arrivalTime: String  - distance: String |
| + Flight( airlineName: String,  flightOrigin: String,  flightOrigin: String,  destinationCities: String,  airFare: float,  departureTime: String,  arrivalTime: String,  distance: String)  + getters and setters |
|  |

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| FlightTest |
| - USERS : User[] |
| + main(args: String[]): void  + authenticate (username: String, password: String): Boolean  + createFlights(): Flight[] |

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| Form1 |
| - table: JTable  - sortButton: JButton  - displayFligbt: JButton  - searchButton: JButton  - displayText: JButton  - model: DefaultTableModel  - textArea: JTextArea |
| + Form1(Flight[] flights)  + displayFlights (Flight[] flights): void  + searchFlightByNumber (Flight[] flights, flightNumber: String): Flight |

- : for private

+ : for public

Relationship:

* User-Flight: Many-Many relationship
* FlightTest – Flight: One-Many relationship
* FlightTest – User: One – Many relationship
* Form1 – Flight: One – Many relationship