## Airplane Ticket Booking System

Basic Idea behind the classes and functions

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| **Package: main**   * [AddAirport.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/AddAirport.java) : (For Admin) Add, Update and Delete Airports from database. * [AddLeg.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/AddLeg.java) : (For Admin) Add, Update and Delete Flight legs from database. * [AddPlane.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/AddPlane.java) : (For Admin) Add, Update and Delete Planes from database. * [AdminDash.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/AdminDash.java) : Dashboard for admin. * [Book.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/Book.java) : Customer can search flights by arrival and destination and book them accordingly. * [CustDash.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/CustDash.java): Dashboard for admin. * [Date\_checker.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/Date_checker.java) : Checks for valid date. * [Details.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/Details.java) : Customers can add or update their personal details. * [Is\_number.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/Is_number.java) : Checks if a string is a valid number. * [Main.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/Main.java): Login and Register Page. The System will check if the user is admin or customer and shows the dashboard accordingly. * [MakeAdmin.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/MakeAdmin.java): An admin can make any other user admin as well by their username. * [TicketCan.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/TicketCan.java) : Customer can see all their past tickets booked or cancelled and they can also cancel any ticket. * [time\_check.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/main/time_check.java) : Checks for valid time. |
| **Package: TableClasses**   * Account.java :   + Parameters: Username, Password type * [Airplane.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/Airplane.java)   + Parameters: Flight number, model, company, max seats available.   + check\_by\_num(int number): checks if the airport exists or not in the database. * [Airport.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/Airport.java)   + Parameters: Airport\_number, name, Location   + get\_airportnum\_byName(String a ): Checks in database and returns the airport number according to the name   + get\_airportLoc\_byNum(int a ): Checks in database and returns the airport location according to the number. * [ConnectionManager.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/ConnectionManager.java): Details for MySQL like password, username, URL. * [Flight\_leg.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/Flight_leg.java)   + Parameters: Leg\_num, Flight\_num, departure, arrival, dept\_time, arrival\_time,distance, cost, Status   + check(int leg\_num): Checks in database if that leg\_num is valid or not.   + getBy\_legnum(int lnum): Update parameters according to the leg\_num   + increment(int lnum,int seats\_taken): When the customer cancels their ticket the available seats in the corresponding leg increases.   + decrement(int lnum,int seats\_req): When the customer books their ticket the available seats in the corresponding leg decreases according to the number of seats the customer booked. * [Flight\_status.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/Flight_status.java) * [Person.java](https://github.com/dakshita117/AirlinesManagement/blob/main/Source%20Code/src/TableClasses/Person.java)   + Parameters: id, name, email, passport\_num, gender,date\_of\_birth   + get\_by\_uname(String uname): Gets user details by their username. * Ticket.java   + Paramers: ticket\_num,Leg\_num, cust\_num,seats\_booked,status. |