**Airline Ticket Management System**

**Users:**

1. Authority
2. Employee
3. client

**Common Functionality:**

1. User can Login
2. User can logout
3. User can recover password.
4. Client type user can sign up.

**Authority:**

1. Can Add, update, remove and view employee list.
2. Can add, update, remove and view client list.
3. Can add, update, remove and view Authority list.
4. Can view aeroplane list.
5. Can view flight list.
6. Can view ticket list.
7. Can view payment list.
8. Can update self-password.
9. Can update self-profile.

**Employee:**

1. Can sell and return ticket.
2. Can take payment for tickets.
3. Can add, remove, update and view aeroplane list.
4. Can add, remove, update and view client list.
5. Can add, remove, update and view flight list.
6. Can view ticket list.
7. Can view payment list.
8. Can update self-profile.
9. Can update self-password.

**Client:**

1. Can buy ticket for a flight.
2. Can make payments for ticket.
3. Can view flight list.
4. Can view aeroplane list.
5. Can view self-brought-ticket list.
6. Can view self-payment list.
7. Can update-self password.
8. Can update-self profile.

**System Entities:**

1. User (userId, name, gender, age, email, phoneNo, address, role, securityAns, password)
2. Authority (Authority type)
3. Employee (designation, Salary)
4. Client (membershipType)
5. Aeroplane (aeroplaneId, name, category, totalSeat, pricePerSeat, availableSeat, bookedSeat)
6. Flight (flightId, aeroplaneId, fromLocation, toLocation, date, duration)
7. Ticket (ticketId, aeroplaneId, flightId, userId (client), numberOfTicket, totalAmount, paidAmount, dueAmount)
8. Payment (paymentId, ticketId, userId (client), amount, date)