1. **User Interface:**
   * Design and implement a user interface for your airline reservation system. This can be done using Java's Swing or JavaFX libraries.
2. **Flight Management:**
   * Create classes to represent flights, including attributes like flight number, departure and arrival times, origin, destination, and available seats.
   * Implement methods to add new flights, update flight information, and retrieve flight details.
3. **Passenger Management:**
   * Create classes to represent passengers, including attributes like name, contact information, and booking details.
   * Implement methods to add new passengers, update passenger information, and retrieve passenger details.
4. **Booking and Reservation:**
   * Implement functionality for users to search for flights based on criteria such as origin, destination, and travel dates.
   * Allow users to select flights and make reservations.
   * Update the flight's seat availability and associate the reservation with the corresponding passenger.
5. **Payment Processing:**
   * Implement payment processing functionality, including methods for validating payment details and generating electronic tickets.
   * Integrate with a payment gateway or implement a simulated payment system.
6. **Data Storage:**
   * Decide on a data storage mechanism, such as a relational database or file storage, to store flight and passenger information.
   * Implement methods to read and write data from/to the chosen data storage system.
7. **Error Handling and Validation:**
   * Implement appropriate error handling and validation mechanisms to ensure the system functions correctly and securely.
   * Validate user input to prevent invalid bookings or incorrect data entry.

It's important to note that building an airline reservation system is a complex task that involves many components and considerations. This outline provides a high-level overview, and you may need to adapt and expand upon it based on your specific requirements.

**Use Case Diagram:**

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| Airline System |

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| Administrator |

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| Customer |

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