1. **Passenger Starts:** The process begins with the passenger wanting to book a ticket.

**Create & Login :** Enter email and password ,If it is the first time the system will make an account to the customer ,The system validates the username and password and If the credentials are correct, the system logs the user in and grants access to their account.

1. **Search & Selection:** The passenger interacts with the system to search for trips, view results, and select a desired trip and class.
2. **System Search (Train Booking System):** The system takes the search request, queries for available trips, and based on whether trips are found, either displays them or shows a "No Trips Found" message. Both paths eventually merge back.
3. **Passenger Details Entry:** Once a trip is selected, the passenger proceeds to enter their personal details and agree to terms.
4. **System Validation:** The Train Booking System receives and validates the passenger and booking details. If valid, it proceeds; otherwise, it displays an error and prompts correction.
5. **Payment Initiation:** Once details are validated, the passenger enters payment information and confirms.
6. **Payment Processing (Concurrent):** The **Train Booking System** initiates the payment process by sending information to the **Payment System**.
7. The **Payment System** processes the payment.
8. The **Payment System** sends back the status (Success/Failure) to the **Train Booking System**.
9. **Ticket Issuance & Confirmation (Train Booking System):**

If payment is successful, the Train Booking System issues the e-ticket, updates seat availability, and sends a confirmation email.

Finally, it displays the booking confirmation to the passenger.

14. **Passenger Views Confirmation:** The passenger sees the final confirmation.

