[L](m) Class Structuring

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| Class Name | Category | Justification |
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| User | Entity Class | |  | | --- | | Represents persistent data for all users. |  |  | | --- | |  | |
| Passenger | Entity Class | |  | | --- | | Stores specific data about passengers. |  |  | | --- | |  | |
| Admin | Entity Class | |  | | --- | | Represents administrators who manage the system. |  |  | | --- | |  | |
| Ticket | Entity Class | |  | | --- | | Holds ticket details such as date, seat, route, etc. |  |  | | --- | |  | |
| Station | |  | | --- | | **Entity Class** |  |  | | --- | |  | | |  | | --- | | Describes station details like location and name. |  |  | | --- | |  | |
| Train | Entity Class | |  | | --- | | Contains static and dynamic data about trains. |  |  | | --- | |  | |
| |  | | --- | | BookingManager |  |  | | --- | |  |   PaymentProcessor  NotificationService  LoginFormUI  BookingFormUI  AdminDashboardUI    FareCalculator | Control Class  Control Class   |  | | --- | | **Control Class** |  |  | | --- | |  |   Boundary Class  Boundary Class   |  | | --- | | **Boundary Class** |  |  | | --- | |  | | **Application Logic Class** | |  |  | | --- | |  |  |  | | --- | |  | | |  | | --- | | Coordinates the booking process between UI and data. | | Handles transaction logic and payment validation.   |  | | --- | | Sends alerts about bookings, delays, or cancellations. |  |  | | --- | |  | | Handles interaction between user and login process. | |  |  | | --- | |  | | Used by users to book or cancel tickets. | |  |  | | --- | |  | | Interface for administrators to manage the system. | |  |  | | --- | |  | | Implements fare rules and pricing logic. | |  |  | | --- | |  | |  |  | | --- | |  |  |  | | --- | |  | |
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