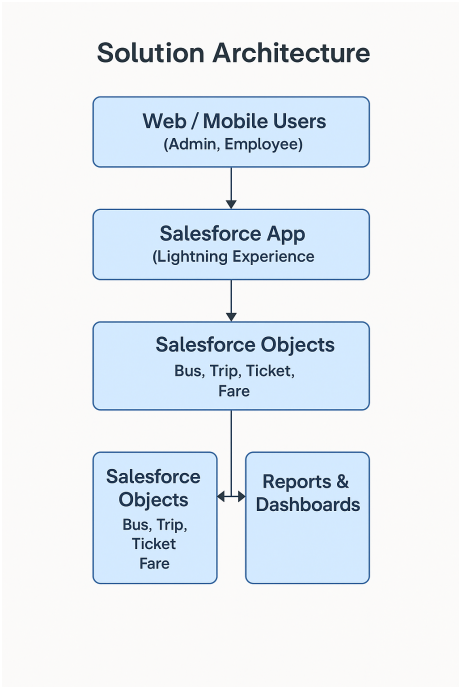


# Solution Architecture



## 1. Core Components

Layer	Description
Presentation Layer	Web and Mobile Interfaces (for Admin, Employees, Passengers)
Application Layer	Salesforce Cloud Services (Salesforce Platform, Flows, Apex, LWC, Validation Rules)
Data Layer	Salesforce Objects: Bus, Trip, Ticket, Employee, Station, Fare, Reports

## **2. Component Flow**

### **1. User Interface (UI)**

- Admin Dashboard (Web)
- Employee View (Web/Mobile)
- Passenger Access (Limited info via community portal/mobile app)

### **2. Salesforce CRM Core**

- **Custom Objects:**
  - Bus, Trip, Ticket, Station, Employee, Fare
- **Automation:**
  - *Flows* for schedule updates & notifications
  - *Apex Triggers* for complex logic
  - *Validation Rules* to ensure data integrity

### **3. Data Storage**

- Salesforce Cloud Database (relational model using custom objects and lookups)

### **4. Reports & Dashboards**

- Real-time KPIs: Route efficiency, Ticket sales, Staff performance, Trip occupancy

### **5. External Integration (Optional/Future)**

- API integrations with Google Maps, payment gateways, or GPS tracking tools