Sales Force -Last Mile Admin Project

Project Name: SkyCast – Smart City Weather Information System

Problem Statement: Modern cities are increasingly affected unpredictable weather events such as heavy rainfall, heatwaves, air pollution, and storms. Citizens, city administrators, and emergency services often lack real-time, localized weather insights to make quick, data-driven decisions.

Current systems are either generic weather apps (that do not provide city-specific microclimate data) or disjointed dashboards with no integration into smart city infrastructure.

SkyCast aims to bridge this gap by building a **Smart City Weather Information System** that delivers hyperlocal weather forecasts, air quality data, and emergency alerts to citizens, businesses, and government agencies.

Phase 1: Problem Understanding & Industry Analysis

1.Requirement Gathering

- Collect **functional requirements**:
  - Real-time weather updates (temperature, rainfall, wind speed, humidity)
  - Air quality index monitoring
  - Smart city integration (IoT sensors, APIs from meteorological departments)
  - User-specific notifications (alerts for storms, floods, heatwaves)
- Collect **non-functional requirements**:
  - High availability and scalability
  - Data security and compliance (e.g., for IoT sensor data)
  - Multi-platform support (web, mobile, smart kiosks)

2. Stakeholder Analysis

- **Citizens** → Need accurate, real-time weather alerts for daily planning & safety
- **City Administrators** → Require dashboards for urban planning, traffic management, disaster preparedness
- **Emergency Services** → Need instant alerts for floods, storms, fire hazards, etc.
- **Businesses** (logistics, transport, retail, agriculture) → Rely on weather insights for operations
- **Meteorological Agencies** → Provide raw data & forecasts
- **Citizens & Businesses** – Need accurate, real-time weather and air quality information to plan daily activities, travel, and operations safely.

3. Business Process Mapping

AS-IS Process (Current Scenario):

- Citizens rely on generic weather apps → limited accuracy
- Administrators depend on scattered reports from different agencies
- No central platform for **real-time insights & alerts**

TO-BE Process (With SkyCast):

1. IoT weather sensors + external APIs collect live data
2. Data processed and stored in Salesforce/Cloud platform
3. SkyCast dashboard provides **real-time weather visualization**
4. Automated **alerts/notifications** sent to citizens & stakeholders
5. Integration with **smart city infrastructure** (traffic lights, public transport updates, emergency services)

4. Industry-specific Use Case Analysis

- **E-Governance (Smart Cities in India, Singapore, Dubai):** Real-time pollution monitoring dashboards
- **Transportation & Logistics:** Companies like Uber & DHL use weather insights to optimize routes
- **Agriculture:** Hyperlocal forecasts help farmers plan irrigation & crop protection
- **Telecom & Energy:** Companies adjust networks and grids based on weather impact

5. AppExchange Exploration

- **Salesforce AppExchange** already has apps for:
  - Weather Forecast APIs integration
  - IoT data connectors
  - Emergency management & notifications
- Gaps found:
  - No **city-level hyperlocal solution** combining weather, AQI, and alerts
- Decision:
  - Use available **weather data connectors** from AppExchange
  - Build **custom SkyCast dashboards, alerts, and integrations** for smart cities