Phase 1: Problem Understanding & Industry Analysis

Objective:
To analyze the challenges in learning Salesforce Apex, automation, and Lightning Web Components (LWC) development, and to define clear project goals.

Activities:

1. **Industry & Technology Research:**

   - Studied Salesforce developer best practices and declarative vs programmatic automation.

   - Identified key areas for Apex learning: Triggers, Batch, Queueable, Future methods, Flows, and LWC dashboards.

2. **Problem Definition:**

   - Developers often struggle to combine declarative (Flows, Process Builder) and programmatic (Apex) approaches.

   - Difficulty in managing asynchronous processes and writing test classes for deployment.

   - Limited practical examples for interactive Lightning Web Components.

3. **Project Goals:**

   - Build a comprehensive **Apex Recipes project** with declarative and programmatic solutions.

   - Include ready-to-use examples for triggers, batch jobs, scheduled jobs, future methods, and LWCs.

   - Provide a reference for **unit tests**, asynchronous processing, and integration scenarios.

Deliverables:

- Project Scope Document

- Use Case Definitions

- Learning Objectives for each Apex recipe