#### **Software Development Life Cycle (SDLC) for SkyCast - A Weather Forecast Website**

#### **Planning (Understanding the Goal)**

The planning phase establishes the foundation for SkyCast by defining its purpose, scope, and timeline.

* **Purpose**: Develop a weather forecast website where users can search and access real-time weather updates for any city worldwide using the OpenWeather API.
* **Problem to Solve**: Simplify weather access by eliminating clutter and complexity found in existing platforms.
* **Target Audience**: General users, travelers, students, professionals, and businesses requiring fast weather insights.
* **Team Responsibilities**:
  + UI/UX designer creates wireframes and layouts.
  + Developer integrates the API and codes the frontend.
  + Tester ensures functionality and responsiveness.
* **Project Roadmap**:
  + Week 1: Complete UI design and wireframes.
  + Week 2: Integrate OpenWeather API.
  + Week 3: Implement frontend features.
  + Week 4: Conduct testing and deploy the website.

This phase ensures all team members understand the project’s objectives and timeline, setting the stage for a successful development process.