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

#### **Design (Creating a Blueprint of the Project)**

The design phase focuses on creating a visual and technical blueprint for SkyCast.

* **Wireframe and UI Design**:
  + A clean, modern card-based layout to display weather details (e.g., temperature, humidity).
  + A prominent search bar at the top for location input.
  + Weather icons (e.g., sun, clouds, rain) for visual representation of conditions.
  + Color scheme: Blue tones for a weather-related aesthetic, with high-contrast text for readability.
* **Technical Structure**:
  + Folder structure: index.html, style.css, script.js, and an assets/ folder for icons and images.
  + No database required; data is fetched dynamically via the API.
* **Technology Stack**:
  + **Frontend**: HTML for structure, CSS for styling, JavaScript for interactivity and API calls.
  + **API**: OpenWeather API for weather data.
  + **Tools**: Git and GitHub for version control and collaboration.
* **Tracking**: Progress is monitored using GitHub Projects, with tasks assigned to team members.

This blueprint guides the development team in building a cohesive and visually appealing website.