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

#### **Maintenance & Updates (Improving the Project Over Time)**

Post-deployment efforts focus on keeping SkyCast functional and enhancing it based on user needs.

* **Monitoring**:
  + Check for API downtimes or rate limit issues with OpenWeather and implement fallback messages if needed.
  + Monitor site performance (e.g., load times) using browser developer tools.
* **User Feedback**:
  + Collect suggestions via a simple form or email link on the site.
  + Prioritize fixes or features (e.g., "Add loading spinner during API calls").
* **Improvements**:
  + Fix bugs (e.g., "Search fails for cities with special characters").
  + Optimize performance by compressing weather icons or caching API responses.
  + Plan future features: dark mode, multi-language support, hourly forecasts.

This ongoing phase ensures SkyCast remains relevant and effective over time.