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

#### **Conclusion**

By adhering to this structured SDLC approach, SkyCast has been developed as a lightweight, responsive, and user-friendly weather forecast website. It leverages the OpenWeather API to deliver accurate, real-time weather insights with a minimalist UI that prioritizes usability. The phased process—planning, requirement analysis, design, implementation, testing, deployment, and maintenance—ensures a high-quality product that meets user expectations. Future enhancements, such as adding hourly predictions or a dark mode toggle, will further elevate the platform based on user feedback and evolving needs. This SDLC framework has provided a clear path to success for SkyCast.