**For Further Improvements**

* To introduce and refine Data Transfer Objects (DTOs) for Providers to improve the clarity, scalability, and maintainability of the codebase.
* Add validations using annotations or services to ensure data integrity.
* Will improve test coverage by using tools like JaCoCo (Java Code Coverage) and SonarQube to achieve a bench mark of having atleast 80% of test case coverage, while adding edge test cases like empty API response, null fields.
* To Integrate Swagger UI to provide an interactive API documentation interface.
* Introduce functionality that allows users to view weather view weather data in either Celsius or Fahrenheit, depending on their preference or region.
* Implemented scheduled weather updates using @Scheduled in Spring to cache weather data every X minutes, significantly reducing latency for user requests and minimizing external API calls.