class diagram

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User

+String userId
+String location
+List<Alert> alerts

+setAlert(alert: Alert)
+getLocation()

WeatherApp

+User user
+WeatherService weatherService
+Database db

+displayWeather()
+displayForecast()
+checkAlerts()

WeatherService

+String apiKey

+getCurrentWeather(location: String) : WeatherData
+getForecast(location: String) : List<WeatherData>

Database

+saveWeatherData(data: WeatherData)
+getCachedWeather(location: String) : WeatherData
+saveAlert(alert: Alert)
+getAlerts() : List<Alert>

WeatherData

+String temperature
+String condition
+String humidity
+DateTime timestamp

Alert

+String condition
+String message

+checkCondition(data: WeatherData) : bool