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### **Problem Statement:**

Despite the availability of numerous weather apps, many fail to provide accurate, real-time weather information that is both personalized and location-specific. Users often face challenges with unreliable forecasts, a lack of detailed local data, and limited customization options. Our goal is to develop a weather application using Flutter that addresses these issues by offering precise, up-to-date weather information tailored to the user's exact location and preferences, ensuring a more reliable and user-friendly experience.

### **Software Requirements**

- 1.Flutter SDK.
- 2.Dart SDK.
- 3.Development IDE:Visual Studio Code .
- 4.Git.
- 5.A Reliable Weather API.
- 6.State Management Tool.
- 7.Flutter Plugins and Packages: geolocation for location-based weather data

### **Hardware Requirements**

Computer:

- Processor: Intel i5/i7/i9 or equivalent AMD Processor.
- Memory: 8 GB RAM minimum, 16 GB or more recommended.
- Disk Space: Minimum of 10 GB free disk space, SSD preferred for faster performance.
- Operating System: Windows (7 SP1 or later), macOS (latest version recommended), or Linux.

Mobile Devices:

- For testing purposes, access to physical iOS and Android devices is ideal. This ensures that the app performs well in real-world conditions.
- iOS: iPhone or iPad running the latest iOS version.
- Android: Android phone or tablet with recent Android version.

Network Connection:

- A stable internet connection is essential for downloading dependencies, accessing APIs, and testing network-related functionalities.

