Task: Build a Weather and News Aggregator App with Weather-Based News Filtering

Objective: Develop an app using React-Native and TypeScript that fetches and displays weather information and news headlines using publicly available APIs. The app should include a unique logic to filter news based on the weather.

Requirements:

1. **User Interface:**
   a. A home screen displaying weather information and news headlines
   b. A settings screen where users can manage their preferences

2. **Features**
   a. **Weather Information:**
      i. Fetch current weather data based on the user's location
      ii. Display temperature, weather conditions, and a five-day forecast.
      iii. Use a publicly available weather API (e.g., OpenWeatherMap API).

   b. **NewsHeadlines:**
      i. Fetch the latest news headlines.
      ii. Display headlines, brief descriptions, and links to full articles.
      iii. Useapublicly available news API (e.g., NewsAPI).

   c. **Weather-Based News Filtering:**
      i. Implement logic to filter news based on the current weather:
         1. If the weather is cold, show only depressing news headlines
         2. If the weather is hot, show news articles related to fear.
         3. If the weather is cool, show news articles about winning and happiness.

   d. **Settings:**
      i. Allow users to select their preferred units for temperature (Celsius/Fahrenheit).
      ii. Enable users to select news categories they are interested in.

3. **Technical Specifications:**
   a. Use React-Native for front-end development.
   b. Use TypeScript as the programming language.
   c. State management using Provider or Riverpod.
   d. Fetch weather data using the OpenWeatherMap API.
   e. Fetch news headlines using the NewsAPI.
   f. Ensure the app has a responsive design to support different screen sizes