OpenWeather Manual

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Introduction

The OpenWeather App is a comprehensive and user-friendly application designed to provide you with accurate and up-to-date weather information. It is developed using Android Studio and Kotlin. This app offers a range of features to help you stay informed about the weather conditions in your area and beyond.

This manual is intended to guide you through the various functionalities of the OpenWeather App, ensuring you can make the most out of its features. Whether you need to check the current temperature, or view an extended forecast, this guide will help you navigate the app effortlessly.

There are multiple key features:

- **Current Weather**: Get real-time updates on temperature, humidity, wind speed, and weather conditions.
- **Hourly and Daily Forecast**: OpenWeather gives you the weather prediction every 3 hours, for 5 days.
- **Multiple Location**: Track weather information for multiple cities or locations.
- **Customizable Settings**: Personalize the app according to your preferences, including unit selection (Celsius/Fahrenheit/Kelvin) and creating your own account to keep track of your chosen cities.

Main Features and Functions

Home Screen Overview

- **Current Location:**
  - The top of the home screen displays the current location (e.g., Belfort). Tap the location name to change the location or add new ones.
- **Weather Icon Bar:**
  - At the top, you have quick access icons for:

- **Menu:** Tap the menu icon (three horizontal lines) to access additional settings and options.
- **Profile Icon:** Allows you to check and edit your profile.
- **Edit Icon:** Allows you to modify location settings or preferences.

- **Hourly Weather Forecast:**
  - The main part of the home screen shows the hourly weather forecast in a list format. Each entry includes:
    - **Date and Time:** Shows the specific date and time for the forecast.
    - **Weather Icon:** Visual representation of the expected weather (e.g., cloudy, rainy).
    - **Temperature:** Displays the forecasted temperature in Fahrenheit (°F). The red text shows the high temperature, while the blue text indicates the low temperature.
    - **Precipitation Chance:** Percentage chance of precipitation.

Navigation

- **Swipe:** Navigate through the forecast by swiping up or down to view more hourly entries.
- **Tap:** Tap on any hourly entry to view more detailed weather information for that specific time.

Detailed Features

Adding and Managing Locations

How to Add Locations:

- Step 1: Tap the menu icon (three horizontal lines) at the top left corner of the home screen to open the navigation drawer.
- Step 2: Tap on "Add City" in the navigation drawer.

- Step 3: Enter the city name in the text field and press "ADD".

Switching Between Locations:

- Step 1: Open the navigation drawer by tapping the menu icon.
- Step 2: Tap on any city listed under "My Cities" and press "Open" to switch to that location. The home screen will update to show the weather forecast for the selected city.

Deleting a Location:
- Step 1: Open the navigation drawer by tapping the menu icon.
- Step 2: Tap on any city listed under "My Cities" and press "Delete" to delete the selected city from your preference list.

Weather Details

Current Weather Details:

- Accessing Details: Tap on any hourly forecast entry on the home screen to view more detailed information for that specific time period.
- Information Provided:
  - Temperature: High and low temperatures.
  - Precipitation: Chance of precipitation in percentage.
  - Wind: Speed and direction of the wind.
  - Humidity: Humidity levels.
  - Additional Data: Specific weather conditions.

Customization

Change Units:

- Step 1: Tap the menu icon, then tap "Setting" in the navigation drawer.
- Step 2: Select "Weather Units" and choose between Celsius, Fahrenheit and Kelvin for temperature display.

User Account

Signing Up:

- Step 1: Open the navigation drawer by tapping the menu icon.

- Step 2: Tap "Login" to open the log in page.
- Step 3: Tap "Sign Up" to open the sign up page.

Logging In:

- Step 1: Open the navigation drawer by tapping the menu icon.
- Step 2: Tap "Login" to log in to your account.

Logging Out:

- Step 1: Open the navigation drawer by tapping the menu icon.
- Step 2: Tap "Logout" to sign out of your account.

Managing Account Settings:

- Step 1: Open the navigation drawer.
- Step 2: Tap on "Setting" to manage account password.

Location Tracking Feature

- After logging into your account, the application will request permission to access your location. Once the user grants permission, the app will automatically add the current city to the list of tracked cities. Whenever the user moves to another city, the new city will also be automatically added to the list of tracked cities.