

Weather Forecast Application

❖ Project Brief Description

Android Mobile Application that displays the weather status and the temperature from your location. Also, you can pick a specific location on the map and/or search for it by auto-complete edit text and add it to a list of favorite locations and get all the weather information at this location. In addition you can set an alert for rain, wind, very low or very high temperature, fog, snow ... etc.

❖ Similar application:

https://play.google.com/store/apps/details?id=info.vazquezsoftware.weatheralarms&hl=en_US&gl=US

❖ Demo Video:

https://drive.google.com/file/d/10YnnNE-T_gFvgM-0oTVKUyIDeSlveCy6/view?usp=sharing

❖ Project's screens:

➤ Settings Screen:

- In this screen the user will have the ability to choose the location and temperature units.
 - For location: a user can choose even between getting the location by GPS or choosing a specific location from the map
 - For units:
 - User can choose units of temperature (Kelvin, Celsius, and Fahrenheit)
 - User can choose units of wind speed (meter/sec, miles/hour.)
 - User can choose language (Arabic – English)

➤ Home Screen:

This screen displays:

- The current temperature
- Current date
- Current time
- Humidity
- Wind speed
- Pressure
- Clouds
- City

- Icon (suitable to the weather status)
- Weather description (clear sky, light rain ... etc.)
- All the past hourly for the current date
- All past features for 7 days.

➤ **Weather Alerts Screen:**

This screen will contain a button to add weather alert which should set an alarm with the following settings:

- The duration through which the alarm is active.
- The type of alarm even be just like notification or default alarm sound.
- Option to stop notification or turn off the alarm.

➤ **Favorite Screen:**

This screen lists the favorite locations. Pressing on an item should open another screen that displays all the forecast information of this place.

In addition, there should be a FAB button via which the user can add a new favorite place. When it is clicked an activity whose map and auto-complete edit text should be shown to give the user the ability to set a marker on a specific location or type in the edit text the name of a city and save this location to the favorites list.

Besides, there should be a facility to enable the user to remove a saved place.

***Note:** You have to use Weather API from this link

“ <https://openweathermap.org/api/one-call-api> ” , **please read the documentation of the API very well and choose the suitable one for each different case in the project .**

❖ **The Evaluation Criteria:**

- Implementing the mentioned features
- The usability of the application and how much it is user friendly
- The stability, quality and accuracy of the application
- The architecture and software design.
- Used tools, technologies and implementation techniques.

❖ **Timing:**

Start from 22nd of Feb, 2023

Project Delivery and Defense Date:

16th Mar, 2023

❖ **Project Delivery Method:**

Send a direct link to the Delivery Package - folder on google drive - in an email to hebahosain@gmail.com , ahmadmazen@gmail.com , yahosny@iti.gov.eg and mogalal@iti.gov.eg with subject:
AND_Is_WeatherApp_Your Name
i.e. AND_Is_WeatherApp_Ali Hassan Saeed

❖ **Delivery Package:**

- GitHub link or direct link to The Android project folder or a compressed folder on Google drive
- The APK file
- Read Me file:
 - The Android SDK Version
 - Link to download the Application from google play, Samsung. [optional]

❖ **Support:**

You can ask for support via contacting:

Eng. Heba Ismail through

Email: heismail@iti.gov.eg

Mobile: 0115 75 51 075 (Calls only during office hours 9:00a.m. - 4:00p.m.)

Or

Eng. Yasmien Hosny During Office Hours (9:00a.m. - 4:00p.m.)

Email: yahosny@iti.gov.eg

Mobile: 0100 31 59 876 (Calls or WhatsApp from 9:00a.m. – 8:00p.m.)

Or

Eng. Mohamed Galal

Mobile: 012 760 9 75 74 (Calls only during office hours 8:30a.m. – 3:30p.m.)

Good Luck