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Design for An Android Weather Application

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ABSTRACT:In This Project We Will Build A Weather App Using Android Studios With Few Modern Specifications. Weather Apps Provides Us With One Of The Most Basic But Essential Tasks,. You May Also Get Additional Information Like Monthly Forecasts, Humidity Levels And Precipitation Totals And Even More Features In Our App.

KEYWORDS: software; application; users; Weather; Android Studios, etc.

I. INTRODUCTION

Weather forecasting is the prediction of the state of the atmosphere for a given location using the application of science and technology. This includes temperature, rain, cloudiness, wind speed, and humidity. Weather warnings are a special kind of short-range forecast carried out for the protection of human life. Weather warnings are issued by the governments throughout the world for all kinds of threatening weather events including tropical storms and tropical cyclones depending upon the location. The forecast may be short-range or Long-range. It is a very interesting and challenging task. This report provides a basic understanding of the purpose and scope of weather forecasts, the basic principles and the general models developed for forecasting.[1]

Weather monitoring plays an important role in human life, so the collection of information about the temporal dynamics of weather changes is very important. In any industry during certain hazards it is very important to monitor weather. The fundamental aim of this paper is to develop an embedded system to design a weather monitoring system which enables the monitoring of weather parameters in an industry.[2]

II. RELATED WORK

Modern society's ever-increasing demand for more accurate weather forecasts is evident to most people. The spectrum of needs for weather predictions ranges from the general public's desire to know if for instance, the weekend will permit an outing at the beach, or an organization's rally, or an outdoor wedding reception. Such diverse industries as airlines and fruit growers depend heavily on accurate weather forecasts to have an idea of what their next schedule of flight would appear to be or if the weather will be suitable for harvesting. In addition, in developed countries, the designs of buildings, and many industrial facilities rely heavily on a sound knowledge of the atmosphere.[3]

III. PROPOSED METHODOLOGY

The objective of this project is to give a few better techniques for Weather Forecast. Every one of the individuals consented to this point and we arranged our task among ourselves, for example, what do we need to work on, what might be elements and functionalities, and so on. Everybody altogether started brain storming.our mentors and guide helped us towards direction of making a good project as they helped us and attempted to tackle our doubts. They informed us about the changes to be made. Numerous issues happened however we as a whole team conquered the difficulties and effectively fostered our task.

Features of our weather forecast app are as follows:

- It will suggest us what to wear according to the weather outside.i.e if it's too cold or too hot.
- It will show us the wind speed and if it is safe to go outside or not.
- It will show weather of the neighboring area if a user is travelling and give them a detailed description of the weather and whether it is safe to travel or not.

IV. DISCUSSION AND EXPERIMENTAL RESULTS

While planning, all the members met up on google meet and discussed what would be the functions that might be suitable for our application. Everyone recommended some innovative features and their structures. Once the features were discussed, we distributed the coding among us. We would do the coding together while coming on google meet. One of us was chosen to do the complete coding and after accumulating the assigned responsibilities, might further pass on to other members to check the coding part and then keep it ready for the presentation.

Although, due to unexpected instances, we had to discard some features that didn't seem as vital because of the now remaining ones. There were also adjustments made for some parts that have been originally meant to be designed in a special manner. One of our members did the completion of the coding, collected coding from rest of our members and completed the project and recorded it.

All the individuals have been made aware about the basic functionalities regarding our project.

There were not any implementations of simulations. Therefore, here are some rough sketches of our undertaking made on Photoshop, being presented as a shape of experimental outcomes.



Fig 1.0



Fig 1.1



Fig1.2

V. CONCLUSION AND FUTURE WORK

Weather forecasting is a complex and challenging science that depends on the efficient interplay of weather observation, data analysis by meteorologists and computers, and rapid communication systems. Meteorologists have achieved a very respectable level of skill for short-range weather forecasting. Further improvement is expected with denser surface and upper air observational networks, more precise numerical models of the atmosphere, larger and faster computers and more are to be realized. However, continued international co-operation is essential, for the atmosphere is a continuous fluid that knows no political boundaries.[3]

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