WINTERHASCOME(WEATHER APP,ANDROID APPLICATION) PROJECT SCOPE

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OVERVIEW

1. Project Background and Description

Keeping track of the weather is absolutely essential for surging on with our daily lives, avoiding potentially dangerous situations through awareness of inclement weather. The weatherapp provides accurate details of current weather conditions at a location of the user's preference. The user can choose from over 40000 weather stations around the globe and get the weather data instantly with a touch of the phone. The weatherapp is simple, easy to use and easy to understand. The app uses a reliable server to fetch the weather data thus preventing annoying delays or temporary unavailability of service.

2. Project Scope

The future scope of the project is immense. Features such as real time automatic updating of weather, storm warning, etc. could be integrated to make the app even more useful than it already is while still maintaining the elegance and simplicity of the original app.

3. Objectives

The primary goal of weatherapp is to provide accurate and instant weather updates as and when required by the user for the user's desired location. The app in itself is very simple, fetching the weather data from openweathermap servers when requested. The UI of the app is very simple, consists of the weather data and a change city button to change city.

My application will fulfill the following objectives:

- Display a particular location and its weather data by default.
- If the user requests weather data for a particular location, fetch the data from openweathermap servers.
- Extract data from the JSONObjects that were fetched.
- Display the obtained data on the screen.

4. Feasibility Study

Feasibility study is used to determine whether all the project requirements can be satisfied and if indeed that project can be implemented. First the nature of the solution is analyzed to determine if its plausible. Secondly, it is determined if the project can be implemented with the existing technology. Finally, the costs are analyzed to determine if it is within the project's budget.

5. Implementation Cost

This includes the effort which needs to develop the android application and it includes:

- Coding, Back End.
- Design.
- Coding, Front End.
- Testing.
- Bug fixing and final release.

6. Timeline

The project was completed in all entirety in 6 weeks approximately. The following are the tasks involved :

- UML modeling of the application- 1 week.
- Front end Coding- 2 weeks.
- Testing- 1 week.
- Bug fixing and final release- 2 week.

7. Technology to be used:

Software:

- Android Studio (API 23 and above).
- Windows OS.
- UML tools

Hardware Configuration:

- Processor- i7
- RAM- 6GB or more.
- Hard Disk- 20GB or more.

8. Conclusion

The weatherapp is used to fetch the JSON file containing the weather data concerning the required destination. With one touch of their device, the user can get details regarding the weather conditions at over 40000 destinations across the globe.