

System Requirements

Project name: Weather forecast customized for farmers

Date:2022/11/1

By:Group17 Qimeng Yang、 Baoqi Gong、 Sihan Wu、 Mingyan Wei、 Haoqi Xue

1.Introduction

The weather forecast application customized for farmers is a useful application, which can provide accurate weather information and relevant tips for farmers and promote the development of agricultural economy. It can not only provide real-time weather forecast, but also provide farmers with various requirements and corresponding measures related to agriculture. It is not only available to farmers, but also can be your daily weather forecast application!

2.Product scope

1. Provide real-time weather information (such as temperature, humidity, UV intensity, rainfall, etc.)
2. Provide possible impacts of weather conditions related to agriculture
3. Provide agricultural countermeasures
4. Provide weather conditions in the next ten days
5. Provide air quality index
6. Early warning of meteorological disasters

3.Product value

1. Promoting agricultural economic development is conducive to better agricultural activities and the smooth work of agricultural producers.
2. Affect the agricultural economy, profit and loss, and benefit the economic growth of companies or individuals related to agriculture.
3. Reduce farmers' workload and hardship, and facilitate users' life and work.
4. Improve the quality and quantity of crops and promote the economic development of the industry.

4. Intended audience

1. People who need weather forecast for agricultural activities.
2. Agriculture related companies and enterprises.
3. Government departments that manage agricultural economic development.
4. Other people who need weather forecast.

5. Intended Use

1. The user can select the required function or information in the interface to search.
2. Farmers can know weather conditions in advance through weather forecast, so as to make adjustments to agricultural production.
3. The weather forecast is made through the analysis of meteorological monitoring data.

At the same time, farmers are guided to choose suitable crops according to the growth characteristics, growth conditions and demands for external conditions of different kinds of crops, and the best time for farmers to plant crops is guided.

4. Other users can learn weather information through weather forecast, so as to better daily life and work.

6. General description

1. Provide help for farmers' work.
2. It is applied to agricultural production and provides all weather information necessary for agricultural production.
3. Provide basic weather information to meet the needs of daily life.

7. Essential features

1. A variety of functions to meet the needs of farmers in the use of farming, industry, planting, and other aspects.
2. Accurate forecasting, accurate determination of the day's climate, more accurate forecast of the next few days of temperature and rain, and air quality.
3. Beautiful interface, personality, fresh, flat.

8. Desirable features

1. Convenience in operation

In terms of operability, the weather forecast APP software mainly presents the

weather content for users through the cell phone platform, then users can make full use of the usual time to check the cell phone.

2. Realize accurate forecast function

The forecasting service provided by the weather forecast APP software can be more precise and accurate in terms of forecasting, so that users can view the content in real time. The weather forecast is accurate to every moment of the recent past, and can also achieve the need to optimize the user query experience.

3. Provide agricultural related information and agricultural guidance

Provide corresponding agricultural guidance and suggestions according to current and future possible weather conditions.