



An Analysis of Agriculture Information Retrieval System Using Pin-Code

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ABSTRACT - Agriculture sector is the backbone of Indian economy. The major challenge in agriculture is to promote the cultivation in the farm and deliver it to the end consumers with the best possible quality. Agriculture is a one of the most important sectors of India. . Agriculture is the art and science of cultivating the soil, growing crops and raising livestock. This particular application has been designed to give and aid to the farmers. This has been designed to retrieve the agricultural information. When any user enters his pin-code the application gives the information about the soil type , the best suited crop , the amount of crop required basing on the demand of the crop and the details about the expected expenses, expected yield time and the nearby store details. The application also gives the information about the soil moisture required for the crop and the humidity of that place.

KEY WORDS: Agriculture Information, Retrieval System, Pin code, HTML, CSS, Java Script, SQL+, PHP, PC(personal computer) , Internet, System.

1. INTRODUCTION :

Smart farming represents the application of modern information and communication technologies into agriculture to increase the amount of production and economic returns, often also with the goal to reduce the impact on the environment. It includes the preparation of plant and animal products for people to use and their distribution to markets. Agriculture

provides most of the world's food and fabrics. Cotton, wool, and leather are all agricultural products. Agriculture also provides wood for construction and paper products. In this application we are giving the information about the crop based on the pin code. If any user gives the pin code this application gives the information like soil type, the best suited crop, the amount of the crop required based on the demand of the crop, the details about the expenses and the yield time and nearby store details. It is purely based on the pin code. In this the software requirements used are HTML, PHP, CSS, SQL+ and Java Script. HTML is heavily used for creating pages. CSS is used to create the webpage colorful and attractive. PHP is used to login, to send any alert messages, day to day information about the agriculture. In this the Hardware Requirements are Personal Computer (PC), Internet. We cannot get the agriculture information without the internet. We cannot get the information without the Internet.

1.1 HTML:

HTML is heavily used for creating pages.

HTML is the standard markup language for Web pages.

With HTML you can create your own Website.

HTML is easy to learn

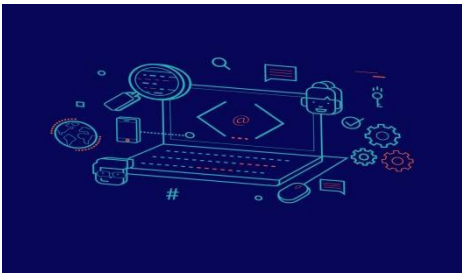


Fig:1 HTML

1.2 CSS:

CSS is used to create a colorful and attractive webpage.

CSS is a language that describes the style of an HTML document.

CSS describes how HTML elements should be displayed.



Fig:2 CSS

1.3 PHP:

PHP is used to login, to send any alert messages, day to day information about agriculture. In this the Hardware Requirements are Personal Computer (PC), Internet. We cannot get agriculture information without the internet. We cannot get the information without the Internet.



Fig:3 PHP

1.4 JavaScript:

It is used to make the webpage dynamic .It adds the functionalities of the webpage.

JavaScript is the programming language of HTML and the Web. JavaScript is easy to learn.

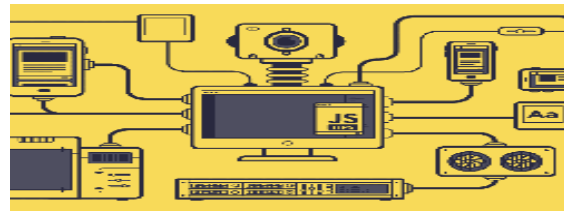


Fig:4 JavaScript

2.SOFTWARE REQUIREMENT SPECIFICATION(srs)

SRS document is to define the functional requirements for Central Agricultural Portal and its component like User management, Content management, Expert Advisory System, Grievances Redressed and Management System, National Farmers' database, etc. It also defines user interfaces, user characteristics, sitemap, navigation etc for the portal.

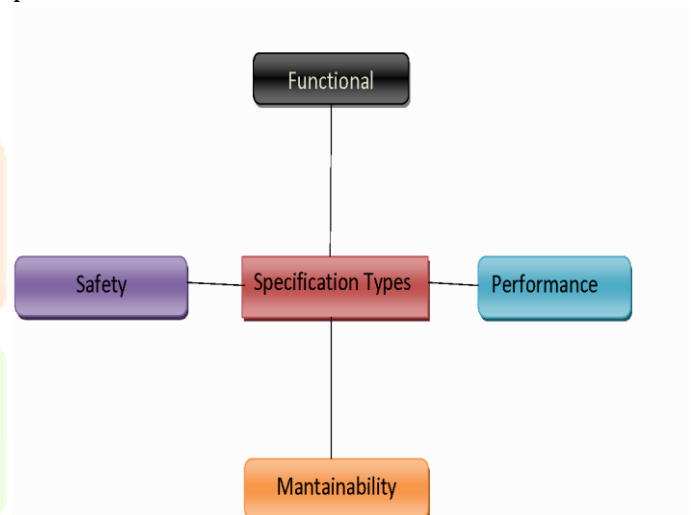


Fig: 5 System Requirement Specifications

Functional: When the pin code is entered the user should get the details about the crop, humidity, the moisture required, fertility, demand of the crop and the yield required.

Performance: The performance in this application will respond very faster. This application is the best platform to retrieve information about agriculture.

Safety: It is safe because it will give the information based on the current situations. It will respond faster. Every page will load within the five seconds. It is very efficient to use for the farmers.

Maintainability: It makes future maintenance easier .It prevents unexpected conditions.

crop and the demand of the crop. This existing model is purely based on the map or survey number. The proposed system is purely based on the pin code.

3. EXISTING SYSTEM: Now a day the many farmers are attempting suicide due to the loss of the crop, lack of the good fertilizers, less stores. The existing system gives the information about the soil type and the fertility of the soil at a particular place and it is confined to only the United Kingdom (UK). In this existing system when a user selects on the particular place of the map then the application gives the information about the soil type and the fertility at the right side of the web page. In the same way we can implement the India map. This existing system will not give the information about the best suited crop.

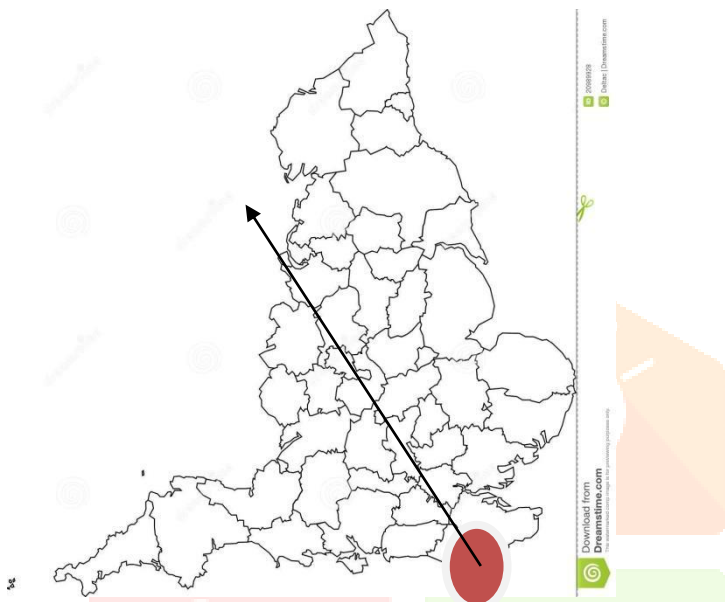


Fig: 6 Information about the soil type and the fertility

4. PROPOSED SYSTEM:

The proposed system works purely basing on the pin-code. When the user enters his pin-code the application gives the information about the fertility, the moisture required, the humidity of the place, the amount of crop required basing on the demand for that particular crop, the nearby store details and the details like the expected expenses and the expected yield time. As it is based purely on the pin-code it will be easier for the user to use it.

Flow Chart :

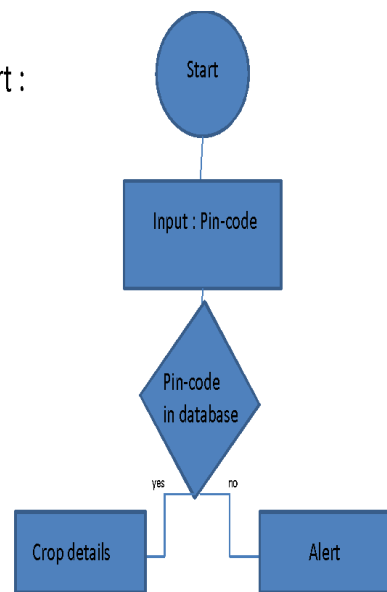


Fig:7 Flow chart for the proposed system

5. SYSTEM ARCHITECTURE:

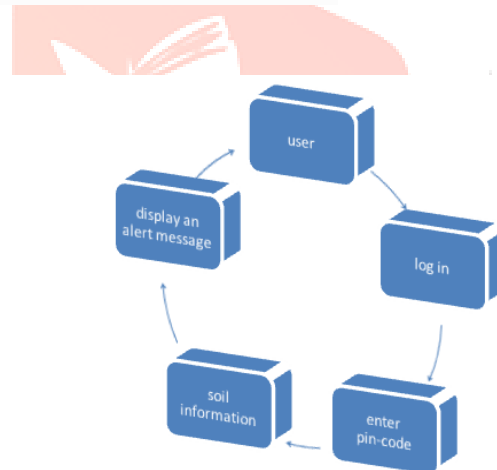


Fig:8 System Architecture

Step1:-The user opens the web page related to the agriculture information.

Step2:-Then the user will login.

Step3:- Enters his Pin code,

Step4:-If the pin code found it gives the soil information like: Soil type, moisture, humidity, demand of the crop, nearby store details, canals, and fertility.

Step5:-If pin code not found it displays an alert message.

6. FUTURE SCOPE:

The present proposed system uses Pin code to retrieve the information. When the user enters his pin code, the system gives the related crop information along with its essentials. This can be later developed or updated by using the location of the user by linking it to the user's mobile

7. CONCLUSION:

The role of Information Technology to develop agriculture and quality of life in rural area is well established. IT can help an average Indian farmer to get relevant information regarding agro-inputs, crop production technologies, agro processing, market support, agro-finance and management of farm agri-business.

The agricultural extension mechanism is becoming dependent on IT to provide appropriate and location specific technologies for the farmers to furnish timely and proficient advice to the farmers IT can be a best mean not only to develop agricultural extension but also to expand agriculture research and education system.

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