PROJECT SYNOPSIS

##### **On**

**AgroSeed**

**Towards partial fulfillment of the requirement**

**For the award of degree of**

###### **Diploma in Information Technology**

**From**

# Government Girls Polytechnic

**Lucknow**

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**Academic Session 2019 - 20**

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**Introduction**

An introduction to​**“AgroSeed”:** ​In this project we will provide an easy access to farmers for all the information required for the crop development like soil description, crop description, and type description to choose from best and apply best. Our system will also allow them to send messages for any other queries which are not there in the portal or which he is not able to access.

***Agriculture is the backbone of the Indian Economy"- said Mahatma Gandhi six decades ago.***

Even today, the situation is still the same, with almost the entire economy being sustained by agriculture, which is the mainstay of the villages. It contributes 16% of the overall GDP and accounts for employment of approximately 52% of the Indian population. Rapid growth in agriculture is essential not only for self-reliance but also to earn valuable foreign exchange.

Indian farmers are second to none in production and productivity despite of the fact that millions are marginal and small farmers. They adopt improved agriculture technology as efficiently as farmers in developed countries. It is felt that with provision of timely and adequate inputs such as fertilizers, seeds, pesticides and by making available affordable agricultural credit /crop insurance, Indian farmers are going to ensure food and nutritional security to the Nation.

Once logged in the Farmers’ Portal, a farmer will be able to get all relevant information on specific needs on land, crops etc. Nearest soil test center location can easily be reached through the Map of India placed on the Contact page. Farmers will also be able to ask specific queries as well as give valuable feedback through the message column.

### Objective

**Purpose:**

Indian farmers are second to none in production and productivity despite of the fact that millions are marginal and small farmers. They adopt improved agriculture technology as efficiently as farmers in developed countries. It is felt that with provision of timely and adequate inputs such as fertilizers, seeds, pesticides and by making available affordable agricultural credit /crop insurance, Indian farmers are going to ensure food and nutritional security to the Nation. It is a website used for farmers for knowing the information about various crops, and in which soil they grow more, and the usage of fertilizers to the crops. If necessary, messaging system is also provided for them.

**Scope:**

○ providing accessibility to all users who have a valid user ID and password.

○ generating updated information regarding crops, types and soil for best output

○ User can message query and can get answers accordingly.

○ Phone numbers of the website managers are also given with the location of the nearest agriculture centre.

Users of the system: Farmers

o Administrator

o Agricultural officers

**Software Requirements:**

|  |  |  |
| --- | --- | --- |
| **Web Presentation** | **:** | **HTML, CSS, Bootstrap** |
| **Client Side Scripting** | **:** | **JavaScript** |
| **Programming Language** | **:** | **Java** |
| **Web based Technologies** | **:** | **Servlets, JSP** |
| **Database Connectivity** | **:** | **JDBC** |
| **Java Version** | **:** | **JDK1.8** |
| **Backend Database** | **:** | **My SQL 5.5 or higher** |
| **Operating System** | **:** | **Windows XP or Higher** |
| **Web Server** | **:** | **Tomcat 7.0 or Higher** |
| **Web Browser** | **:** | **IE/Mozilla/Chrome** |

**Hardware Requirement:**

**Client-Side:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Browser** | **Processor** | **RAM** | **Disk Space** |
| Internet Explorer 6.0 | Pentium-4 | 512MB | 4GB |
| Or Higher | or Higher |  |  |
| **Server-Side:** |  |  |  |
| **Browser** | **Processor** | **RAM** | **Disk Space** |
| Apache Tomcat | Pentium-4 | 512MB | 32GB |
| Or Higher | Or Higher |  |  |
| Oracle 9i | Pentium-4 | 512MB | 32GB |
| Or Higher | Or Higher |  |  |

### Modules

1. **User services,**
2. **User registration,**
3. **User login and authentication,**
4. **Contact form,**
5. **Admin login and authentication,**
6. **View, update and delete registration,**
7. **View, update & delete website data,**
8. **View messages**

**Er-Diagram**

Agroseed DB

Admin

User

Account

Account

Registration

Soil

Website Data

Crop

Message

**DFD**

Admin

User

Register

Register

Login

Soil Details

Crop Details

Login

Soil Details

View, Update, Delete Registration

Send Messages

View, Update, Delete website data

View messages & Response

**Shortcomings / Limitations**

**Future Scope**

**Conclusion**

AgrooSeed is a website which will provide an easy access to farmers for all the information required for the crop development like soil description, crop description and type description to choose from best and apply best. Our system will also allow them to send messages for any other queries which are not there in the portal or which he is not able to access.

For Admin side he will be having full access to the registrations, messages and the website database information. He can add, view, and delete anything he wants. The admin is required to be pre-logged in to access everything.

**Infoseek** **Software Systems Pvt. Ltd**

Under the Guidance of Mr. Mirza.

We are really thankful to everyone who were there for supporting us,

We sincerely appreciate your efforts.

**Plagiarism Report**

**References**

##### **General**

1. Java mother site @ https://www.oracle.com/technetwork/java/index.html.
2. Java Documentation @ https://docs.oracle.com/en/java/index.html.

##### **JDK (Java SE or Java Platform Standard Edition)**

1. JDK (Java SE) mother site @ https://www.oracle.com/technetwork/java/javase/overview/index.html.
2. JDK API Documentation Online @ https://docs.oracle.com/en/java/javase/11/ (for JDK 11).
3. Ken Arnold, James Gosling and David Holmes, "The Java Programming Language", 4th ed, 2005.
4. James Gosling, Bill Joy, Guy Steele and Gilad Bracha, "The Java Language Specification", 3rd ed, 2005
5. JDK Demos and Samples (to be downloaded @ https://www.oracle.com/technetwork/java/javase/downloads/index.html).

##### **Books & Online Tutorials**

1. The online Java tutorial @ https://docs.oracle.com/javase/tutorial/. (The authoritative source)
2. Paul Deitel and Harvey Deitel, "Java How to Program, Late Object", latest edition. (A comprehensive reference for programmers)
3. Y. Daniel Liang, "Introduction to Java Programming", latest edition. (Good text book for undergraduate Java courses.)
4. Bruce Eckel, "Thinking in Java", 4th ed, 2007. (Great book but has not been updated?!)