

Project Report On

“Agro-Management System”

**Submitted for partial fulfilment of course IF5967-Project and Seminar of the Diploma
Programme in Information Technology**

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Department of Information Technology,

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(An Autonomous Institute of Government of Maharashtra)

2019-2020

CERTIFICATE

This is to certify that the Dissertation entitled

“Agro-Management System”

is a bonafide work and it is submitted to the Government Polytechnic, Amravati.

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in the partial fulfilment of the course IF-5967 Project and Seminar for the requirement of the **Diploma in Information Technology**, during the academic year **2019-2020** under my guidance.

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Dissertation Approval Sheet

Dissertation Entitled

“Agro-Management System”

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in

Information Technology

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ABSTRACT

India is fourth largest agriculture sector in the world. Agriculture sector provides employment to over two third population of the country. The Agro-Management System Project provides its users and researches to get online information about, the crop, statistical details and new tendencies. This project is aimed at solving some of the major problems related to farmers. The web interface has been designed completely user friendly, to facilitate the access even to an illiterate farmer.

The main objective of developing “Agro-Management System Project” application is to help farmers by providing all kinds agriculture related information in the website. “Agro-Management System Project” is farmer management website application which helps farmers to give best-practice farming processes. It helps farmers to improve their productivity and profitability. It enables farmers to purchase tools and seeds directly from seller.

Agro-Management System is to help farmers by providing all kinds agriculture related information in the website. Agro-Management System is farmer management website application which helps farmers to give best-practice farming processes The name Agro-Management System indicates Intelligent Agriculture. Agriculture Management System is a model farmer management website application. This site helps the farmers to sell their agricultural produce online and suggests best -in-practice farming processes. Hence, providing a wider market and helping them to not restrict themselves to the local market. This enables wholesalers and retailers to expand their business.

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INTRODUCTION

The “Agro-Management System” has been developed to override the problems prevailing by the farmers in agriculture process. This Software is supported to eliminate and in some cases to reduce the hardship faced by farmers to manage the agriculture-related methods (e.g. Land details, Crops maintenance, land or product buying and selling, Weather Forecasting Information etc.).

This application reduces the time and efforts required for managing the agriculture methods. Farmers with lack of knowledge about technical gadgets (like cell phones and computers, etc.) are provided with offline canters (Customer Service centre) in their area/city. Where, our employees will help them to operate the application efficiently. This application will help them to keep count on the overall expenditure of the agricultural goods, it will also eliminate the risk of maintaining the records on the offline basis (in registers or documental form) rather it will store the records in the database.

Now-a-days, there are a lot of upcoming government policies which are still unknown to many of the farmers. So, our software will help them to keep track of those policies. As there is direct communication between the buyer (Customer) and seller (Farmer) the risk of loss of money is reduced.

The "Krusha Agro-Management System"(website of Agro-Management System) provides a most systematic and simplest way of accessing the information to the users.

NEED OF THE PROJECT

Agriculture is the backbone of India & from few years we are facing some problems in this sector, in order to eliminate this issues we have designed this software. Earlier farmers would deal with the broker for selling their crops due, to which they are unable to receive the desired profit to eliminate this our software provide direct communication with buyer. Now-a-days our government have declared many policies and acts for a sake of farmers but many of them are unaware of that act and policies. So, our software will keep them update with this act and policies and it will impose this acts and policies on all the transaction performed in our software.

In some regions farmers are unknown with the knowledge of crops development so, to will provide up-to-date weather forecasting reports and information related to development of the crop sometime the problem may arise as the farmer are not known about the current price rates or demand of the crop which can cause a great loss. So, in order to eliminate this we provide them the statistical graph about the crops in demand and current price rates of the crops. In earlier days, farmers use to write the expenditure, profit and loss of the alternative

and other expenses in a documental format which is difficult to keep a count on this data. So, have designed on account to maintain this information in the database.

How is it Beneficial?

The main objective of the project on Agro Management System is to perform following functions:

- It establishes to make farmers aware of the upcoming Government Policies.
- To maintain the expenditure of farmers (amount spend and received on) while using our software.
- To provide them the statistical graph of the crops in demand and current price rates of the crops.
- To provide the most satisfying deals for purchasing, selling and renting the land.
- To provide them up-to-date weather forecasting reports in order to ease the development of crops.
- To provide the best quality of crops, fertilizers, agricultural equipment, etc.
- To provide the most satisfying deals for purchasing and selling of the agricultural goods.
- To provide the information about the development of the crops.

LITERATURE REVIEW

Most of the countries have their livelihood depend on the agriculture. Agriculture contributes to their nation economy. Agriculture has been one of the primary occupations of man since early civilizations and even today manual interventions in farming are inevitable. There are many plants that are very sensitive to water levels and they required specific level of water supply for proper growth, if this not provided they may die or result in improper growth. It's hardly possible that every farmer must possess the perfect knowledge about growing specifications of plants in case of water supply. But from few decades the yield that agricultural crops produce goes on decreasing. There are many reasons for that such as environmental factors, fertility of soil, water requirement to the crops, improper way of cropping, irrigation facilities, etc., so there's need of use of technology in the field of agriculture. Different organizations and researchers find the root causes for that and tried to develop the efficient system that will help to increase the production. The lack of information regarding the same has caused such disadvantages. The agriculture system provides the necessary information to the farmers, and the rest of the users.

Related Work:

1. Peter Namisiko in 2013 have proposed as: A study which is conducted at majority of farmers in Kenya who are not able to sell their produce at market price due to lack of sufficient information available. Also the agricultural productivity is being lessen due to the lack of information and resistance developed by the agricultural universities. For such farmers to produce and sell their products at market based competitive prices, information communication technologies (ICT) tools have be availed to them. This is because the development of agriculture is dependent on how fast and relevant information is provided to the end users. The study concentrated in Trans Nzoia County since it is the heart of Kenya. A lot of research has been conducted in this area, but no research has been to ascertain the awareness, adoption, legislative and regulatory framework, therefore it is must to determine the current research trends in the use and adoption of e-agriculture of e-Agriculture in TransNzoia Country.
2. Marcel Fafchamps in 2012 have proposed as: This paper estimates the bene fits of the Indian farmers if the market and weather information is delivered to their mobile phones. And this has been conducted with a randomized experiment in 100 villages of Maharashtra. This service has been sent in by a commercial service called Reuters Market Light (RML). The treated farmer's associate RML information with a number of decisions they have made in the agriculture, and we find that the treatment affected spatial arbitrage and crop grading. But the magnitude of these effects is small. We find no statistically significant average effect of treatment on the price received by farmers, crop value-added, crop losses resulting from rainstorms, or the likelihood of changing crop varieties and cultivation practices

SYSTEM ANALYSIS

Hardware Requirements:

- Communication Devise (Laptop, Pc, Mobile Phones, etc.)
- Storage devices (Pen drive, CD-ROM, etc.)
- Server

Software Requirements:

- Visual Studio 2015
- Internet Browsing Software (Google Chrome, Internet Explorer, etc.)
- MySQL Workbench 8.0 CE

SYSTEM DESIGN

Data Flow Diagram:

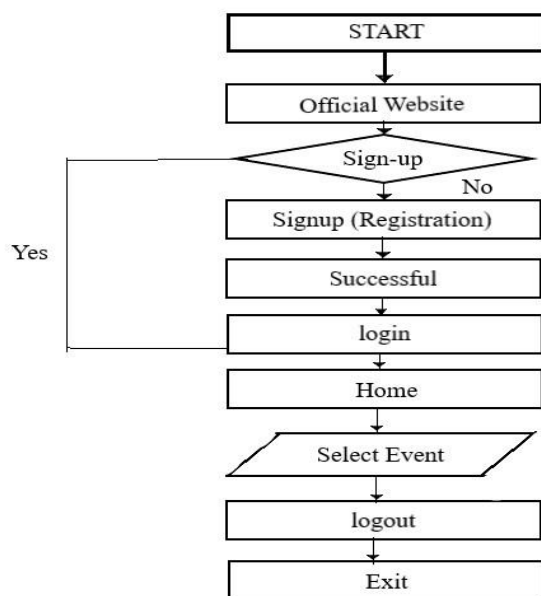


Figure no. 1: Data flow diagram.

System Architecture:

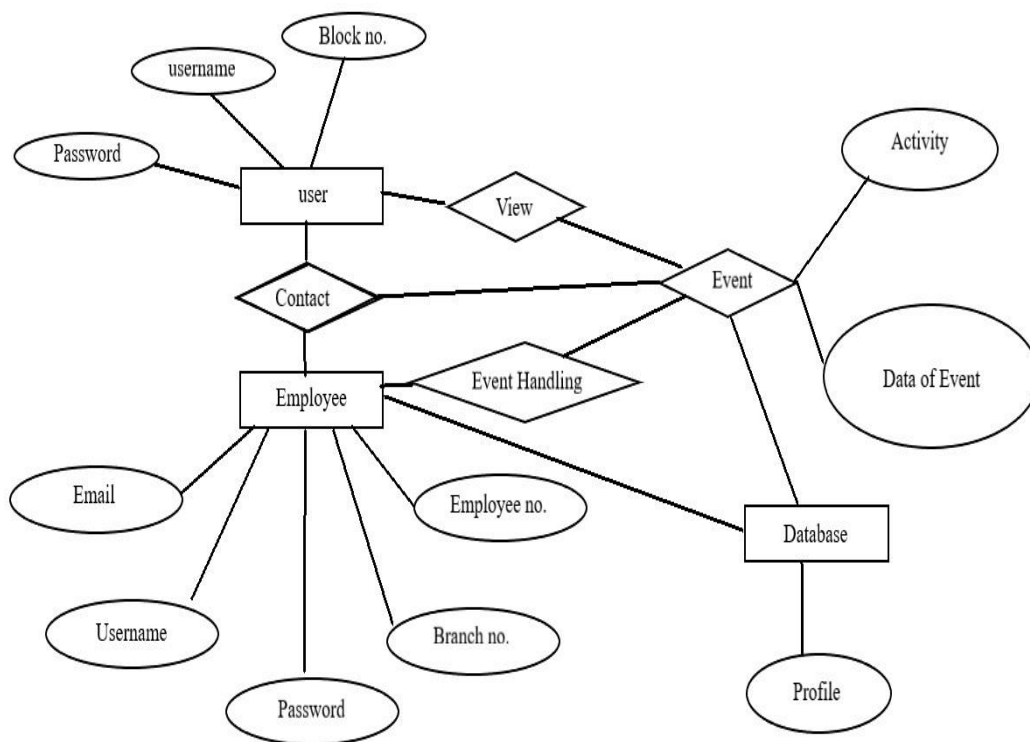


Figure no. 2: System architecture.

SYSTEM DEVELOPMENT

DATABASES:

Market Price:

Commodity	Variety	MSP for 2019-20 (Rs per quintal)	MSP for 2020-2021 (Rs per quintal)	Increase over previous year (Rs per quintal)
KHARIF CROPS				
Paddy	Common	1815	1868	53
	Grade 'A'	1835	1888	53
Jowar	Hybrid	2550	2620	70
	Maldandi	2570	2640	70
Bajra		2000	2150	150
Maize		1760	1850	90
Ragi		3150	3295	145
Arhar (Tur)		5800	6000	200

Moong		7050	7196	146
Urad		5700	6000	300
Cotton	Medium Staple*	5255	5515	260
	Long Staple **	5550	5825	275
Groundnut in shell		5090	5275	185
Sunflower seed		5650	5885	235
Soyabean	Yellow	3710	3880	170
Sesamum	-	6485	6855	370
Nigerseed	-	5490	6695	755
RABI CROPS (2019-20 season to be marketed in 2020-21)				
Wheat		1840	1925	85
Barley		1440	1525	85
Gram		4620	4875	255
Masur (Lentil)		4475	4800	325
Rapeseed & Mustard		4200	4425	225
Safflower		4945	5215	270
Toria		3560	3900	340
OTHER CROPS				
Copra (2020 crop season)	Milling	9521	9960	439
	Ball	9920	10300	380
De-husked coconut		2571	2700	129
Raw Jute (for 2019-20 season)			3950	-
Sugarcane \$			275	-
* Staple length (mm) of 24.5 -25.5 and Micronaire value of 4.3 -5.1				
** Staple length (mm) of 29.5 -30.5 and Micronaire value of 3.5 -4.3				
\$ Fair and remunerative price				

Soil Testing:

	Id	State	Page Link	District	Img Location
	1	Maharashtra	Soiltesting1.aspx	Ahmednagar	st1.png
	2	Maharashtra	Soiltesting1.aspx	Akola	st2.png
	3	Maharashtra	Soiltesting1.aspx	Amravati	st3.png
►	4	Maharashtra	Soiltesting1.aspx	Aurangabad	st4.png

Weather Forecasting:

	Id	State	District	Img Location
	1	Goa	Goa north	Goa north.png
	2	Goa	Goa south	Goa south.png
	3	Maharashtra	Amravati	Amravati.png
	4	Maharashtra	Akola	Akola.png

Crop Details:

Id	Crop Name	Language	Text File
1	Arhar	english	arhar.txt
2	bajra	english	bajra.txt
3	barley	english	barley.txt
4	cotton	english	cotton.txt

User Details:

Id	username	password	name	D.O.B	gender	mob. no.	email Id	Address	State	Security Question	Security Answer
1	Karan More	more1234	Karan More	1992-08-11	Male	8674582355	karanmore1234@gmail.com	at post koradi ,Buldhana ,Maharashtra.	Maharashtra	what is your desire?	becoming a successful farmer
2	Sunita Pawar	mypwd0702	Sunita Pawar	1989-04-30	Female	8736832345	sunitapawar@gmail.com	lehgaon railway, daryapur, amravati, maharashtra.	Maharashtra	what is your desire?	to give better future to my childrens
3	Rohit Gaytonde	rohi4868	Rohit Gaytonde	1991-11-24	Male	9675835345	rohitgaytonde@gmail.com	at post aasegaon bajar, Akot, Akola, Maharashtra.	Maharashtra	what is your desire?	living a luxurious life
4	Radha Jadhav	radha007	Radha Jadhav	1995-09-15	Female	9643427543	radhajadhav@gmail.com	at post mengvadi, Morshi, Amravati, Maharashtra.	Maharashtra	what is your desire?	my parents should feel proud of me
5	Sameer Rathod	sammy01	Sameer Rathod	1975-10-19	Male	7589546752	sameerrathod01@gmail.com	at post bhoom,Osmanabad, Maharashtra. 413534	Maharashtra	what is your desire?	to fulfill all wishes of my family
6											

Government Schemes:

Id	State	Govt Scheme	Details	URL address
1	maharashtra	E-NAM	National Agriculture Market (eNAM) is a pan-India electronic trading portal which netwo...	https://enam.gov.in/web/
2	maharashtra	National Mission For Sustainable Agriculture (NMSA)	National Mission for Sustainable Agriculture (NMSA) has been formulated for enhancing...	https://nmsa.dac.gov.in/
3	maharashtra	Pradhan Mantri Krishi Sinchai Yojana (PMKSY)	Har Khet ko Pani "Prime Minister Krishi Sinchayee Yojana", Government of India is com...	https://pmksy.gov.in/
4	maharashtra	Pradhan Mantri Fasal Bima Yojana (PMFBY)	Pradhan Mantri Fasal Bima Yojana (PMFBY) is the government sponsored crop insuranc...	https://pmfby.gov.in/

MODULES:

- Developer
- Administrator
- Employee
- User

Developer: A module developer is someone who is going to add to the simulation capabilities of Energy Plus.

Use cases:

- Creating a software
- Creates a new Component model
- Create a new program module

Administrator: This module handles system and database such as uploading information, policies, acts, deleting the unwanted accounts, managing the work of employees.

Use cases:

- Update information
- Delete accounts
- Manage employees

- Maintain database

Employee: This module looks after the queries of the user, help them to create account and record the data in the database.

Use cases:

- Query solving
- Create account
- Upload Records

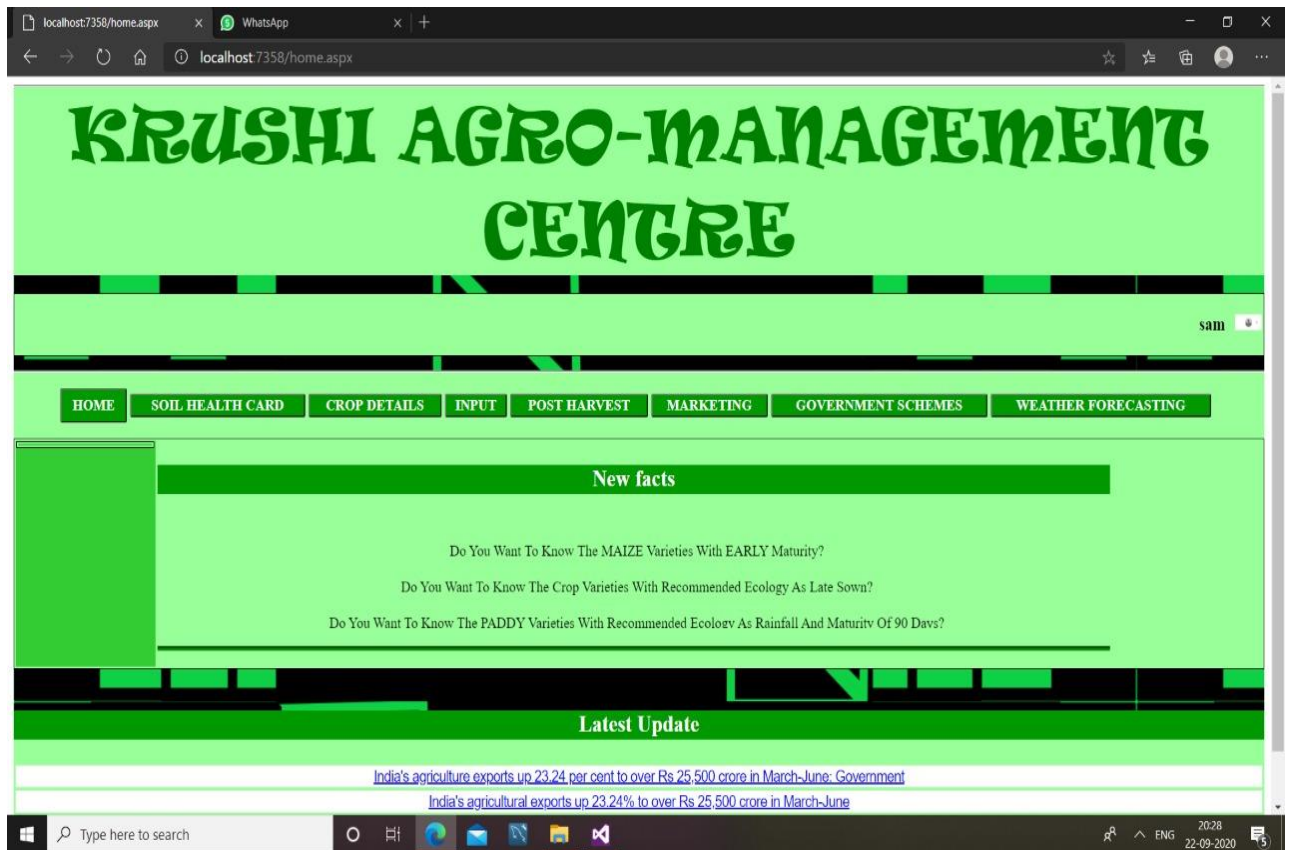
User: This module can create an account, login and log out from the account.

Use Cases:

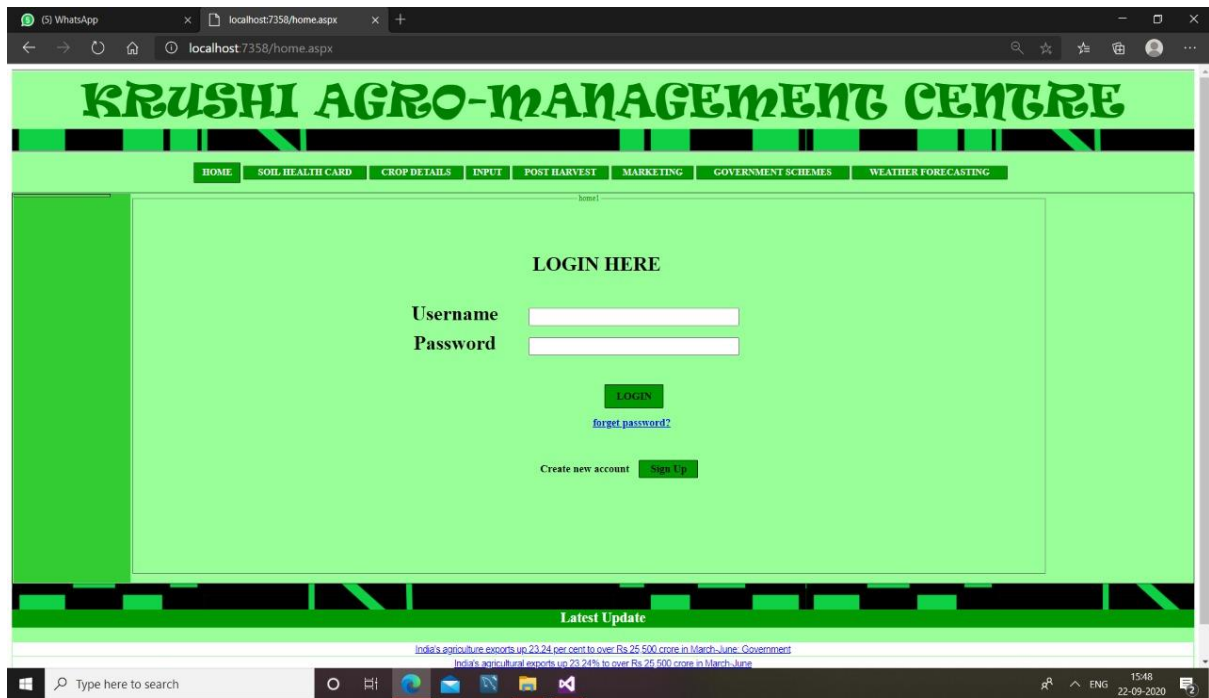
- Create account
- Log in
- Log out

EXPERIMENTAL RESULTS AND DISCUSSION:

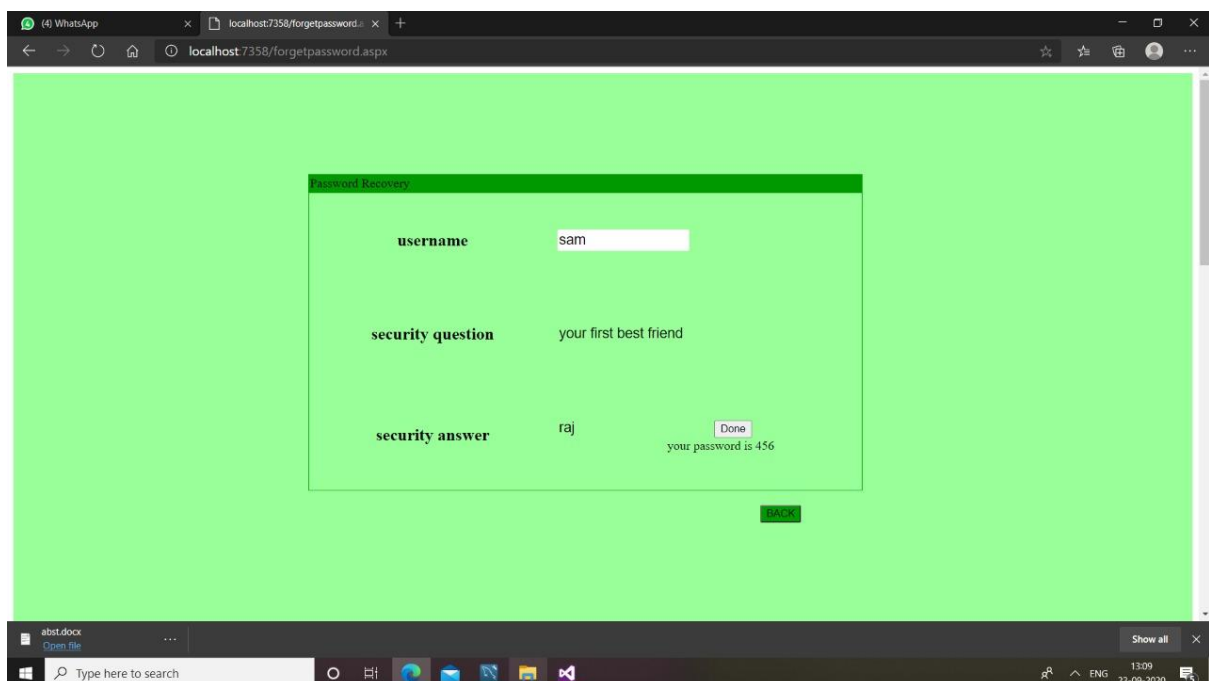
Home Page: As you open the home page it will display new facts at the centre of the page which will help the farm to stay updated with the agriculture related new information's.



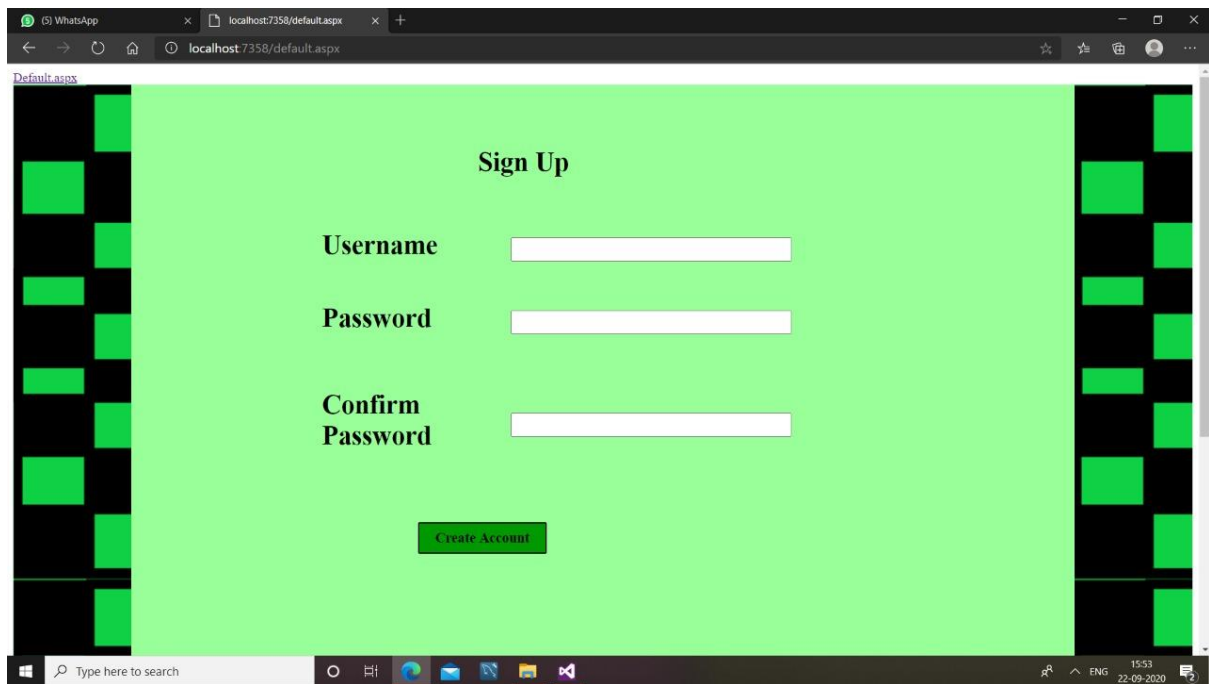
Log in: Here, you can either to the already existing account by entering valid username and password or you can create a new account by sign up. Click on sign up to create a new account.



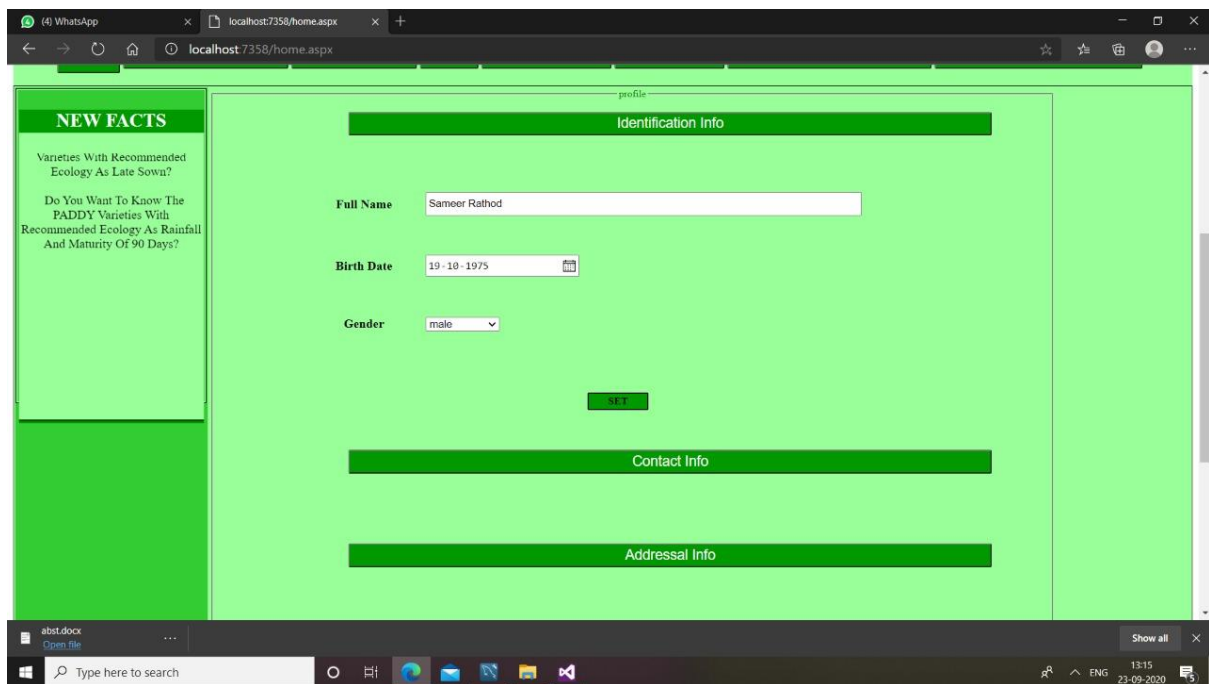
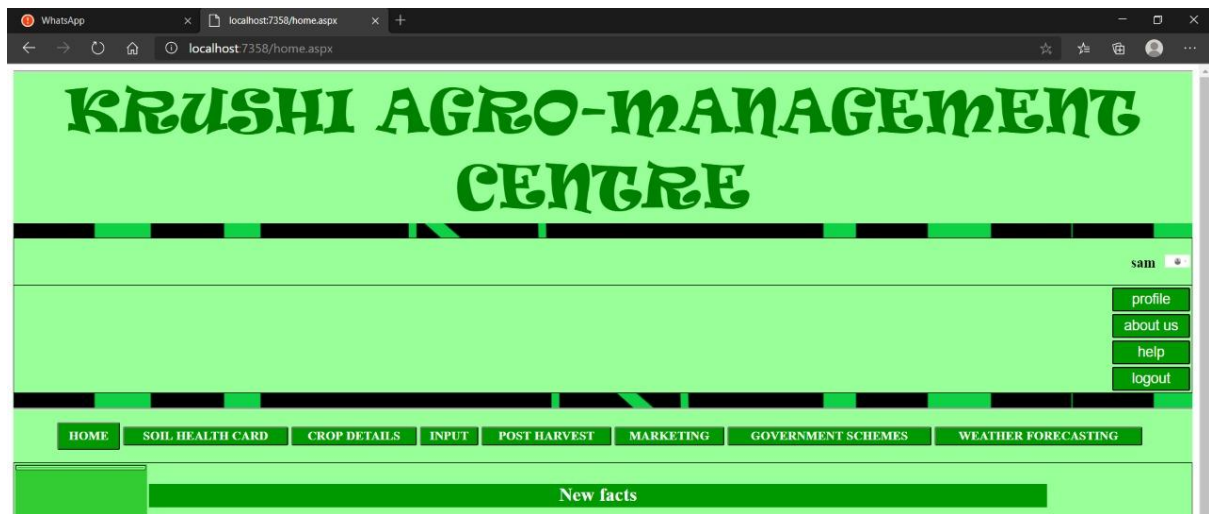
Recover password: If the user forgets the password then click on -> forget password then the below displayed page will appear and from here you can recover your password.



Create new account: If you are a new user and want to create account click on Create new account and then the below page will appear fill in the valid username and a difficult password -> create account and your account will be created.



Profile: Click on your profile button then the profile page will be displayed. There you have to enter your Identification information, Contact information, Addressal information, Login Information and Security information.



NEW FACTS

profile

Identification Info

Contact Info

Email-Id sameerathod01@gmail.com

Mobile no. 7589546752

SET

Addressal Info

Login Info

NEW FACTS

profile

Identification Info

Contact Info

Addressal Info

State maharashtra

Full Address at post bhoom, Osmanabad, Maharashtra

SET

Login Info

Web browser window showing a registration form at localhost:7358/home.aspx. The form includes sections for Addressal Info, Login Info, and Security Info. The Login Info section contains fields for Username (filled with 'sam'), Password, and Confirm Password, along with a Change Password button.

Addressal Info

Login Info

Username: sam

Password

Confirm Password

Change Password

Security Info

Web browser window showing a security setup form at localhost:7358/home.aspx. The form includes sections for Security Info and a Latest Update section. The Security Info section contains fields for Security Question (filled with 'What is you desire?'), Security Answer, and Confirm Answer, along with a Set button.

Change Password

Security Info

Security Question: What is you desire?

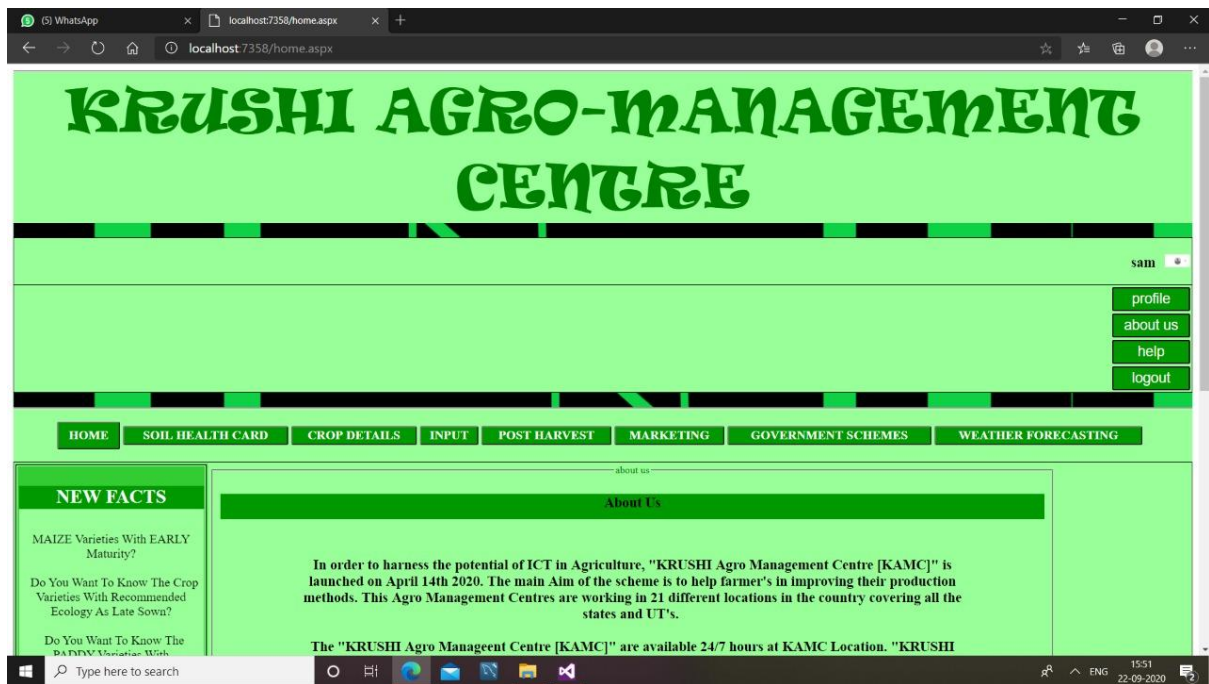
Security Answer

Confirm Answer

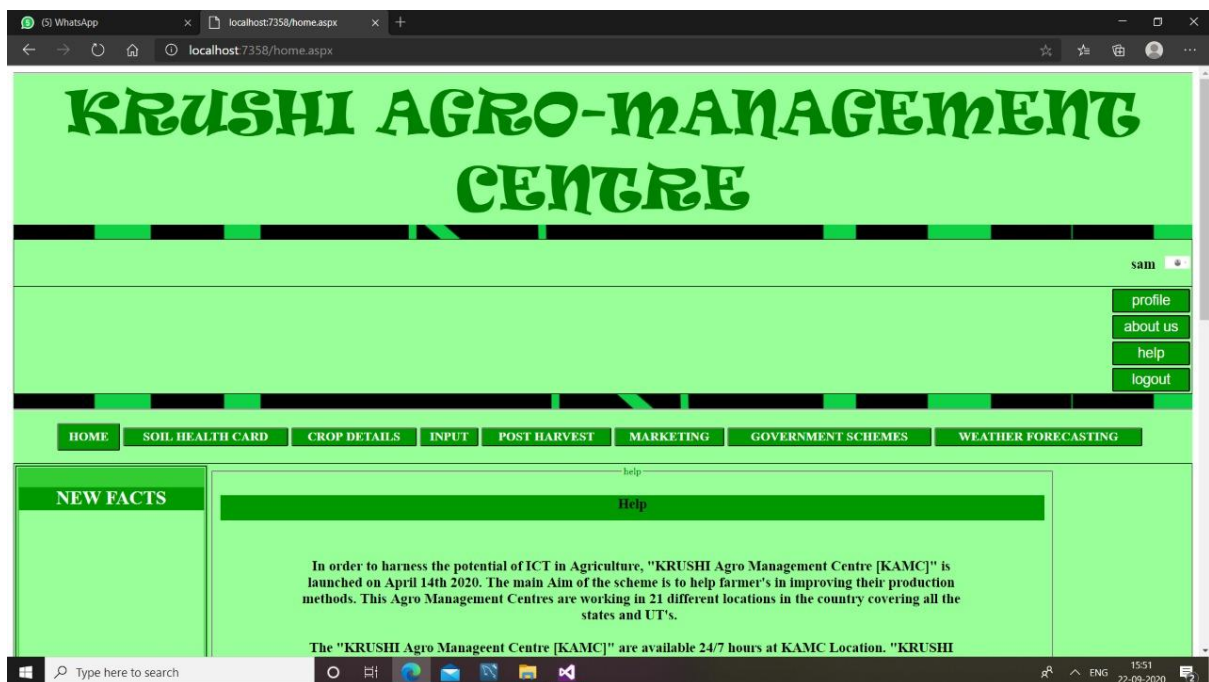
Set

Latest Update

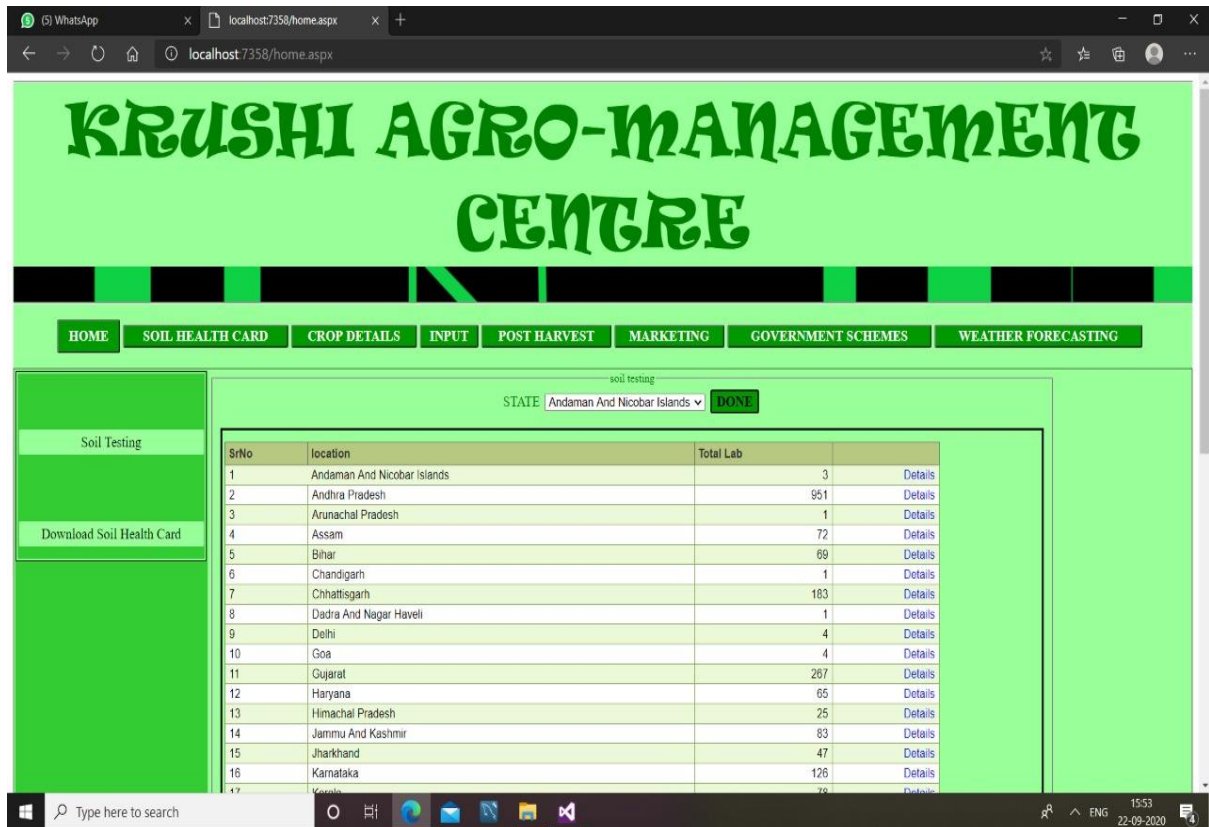
About us: Click on your profile button a menu will appear click on About us then the below page will be displayed. Here, you will get information about product.



Help: Click on your profile button a menu will appear click on Help. Here, you can ask for help.



Soil Testing: Click on Soil health card -> soil testing and the below table will appear here you have to enter your state and you will get the information of total number of soil testing laboratories near you, there you can check the contact details and other details of that specific lab.



soil testing

STATE Andaman And Nicobar Islands DONE

SrNo	location	Total Lab	
1	Andaman And Nicobar Islands	3	Details
2	Andhra Pradesh	951	Details
3	Arunachal Pradesh	1	Details
4	Assam	72	Details
5	Bihar	69	Details
6	Chandigarh	1	Details
7	Chhattisgarh	183	Details
8	Dadra And Nagar Haveli	1	Details
9	Delhi	4	Details
10	Goa	4	Details
11	Gujarat	267	Details
12	Haryana	65	Details
13	Himachal Pradesh	25	Details
14	Jammu And Kashmir	83	Details
15	Jharkhand	47	Details
16	Karnataka	126	Details
17	Kerala	78	Details

Soil Health Card: after testing your soil click on Download soil health card here, you have to enter name of your state and district and then you can download the soil health cards of your region.

The screenshot displays a web browser window with the URL `localhost:7358/home.aspx`. The website has a green header with the title "KRUSHI AGRO-MANAGEMENT CENTRE" in large, bold, green letters. Below the header is a navigation bar with several menu items: HOME, SOIL HEALTH CARD, CROP DETAILS, INPUT, POST HARVEST, MARKETING, GOVERNMENT SCHEMES, and WEATHER FORECASTING. The "SOIL HEALTH CARD" menu item is highlighted. On the left side, there is a sidebar with two buttons: "Soil Testing" and "Download Soil Health Card". The "Download Soil Health Card" button is highlighted. The main content area features a form titled "download soil hc". This form contains two dropdown menus labeled "State" and "District", both with placeholder text "-state-" and "-district-" respectively. Below these dropdowns is a green "Done" button. At the bottom of the page, there is a section titled "Latest Update" which contains three news items, each with a blue hyperlink: "India's agriculture exports up 23.24 per cent to over Rs 25,500 crore in March-June: Government", "India's agricultural exports up 23.24% to over Rs 25,500 crore in March-June", and "Indian agriculture will emerge world class in coming times: Shah". The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons. The system clock in the bottom right corner indicates the time as 15:54 on 22-09-2020.

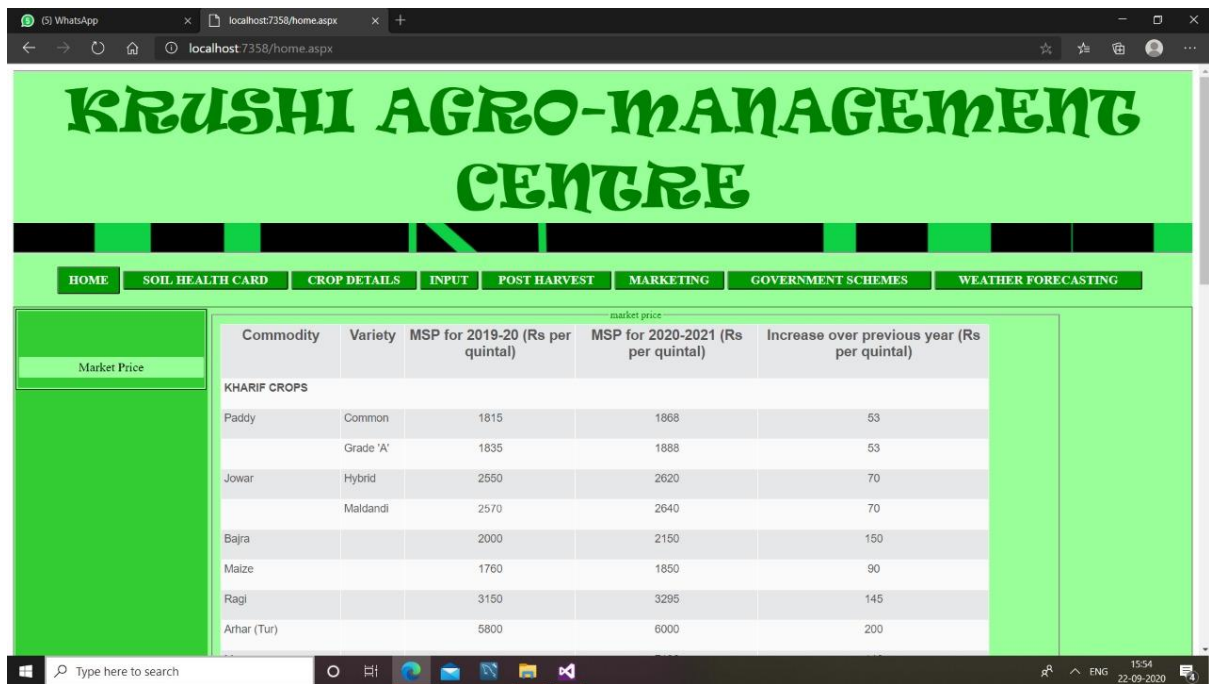
Crop Details: Here, you have to enter the name of the crop you need to know the information about and enter the language in which you want to know the information in.

The screenshot shows a web browser window with the URL `localhost:7358/home.aspx`. The page has a green header with the text "KRUSHI AGRO-MANAGEMENT CENTRE". Below the header is a navigation bar with links: HOME, SOIL HEALTH CARD, CROP DETAILS, INPUT, POST HARVEST, MARKETING, GOVERNMENT SCHEMES, and WEATHER FORECASTING. The "CROP DETAILS" link is active. On the left side, there is a sidebar with the heading "NEW FACTS" and three bullet points: "Do You Want To Know The MAIZE Varieties With EARLY Maturity?", "Do You Want To Know The Crop Varieties With Recommended Ecology As Late Sown?", and "Do You Want To Know The". The main content area is titled "CROP DETAILS" and contains a form with two dropdown menus: "Crop Name" (set to "-crop-") and "language" (set to "english"). A "Done" button is located below the dropdowns.

Input: After clicking on the input the below page will be displayed. First click on Farming procedure then select the crop and select the language.

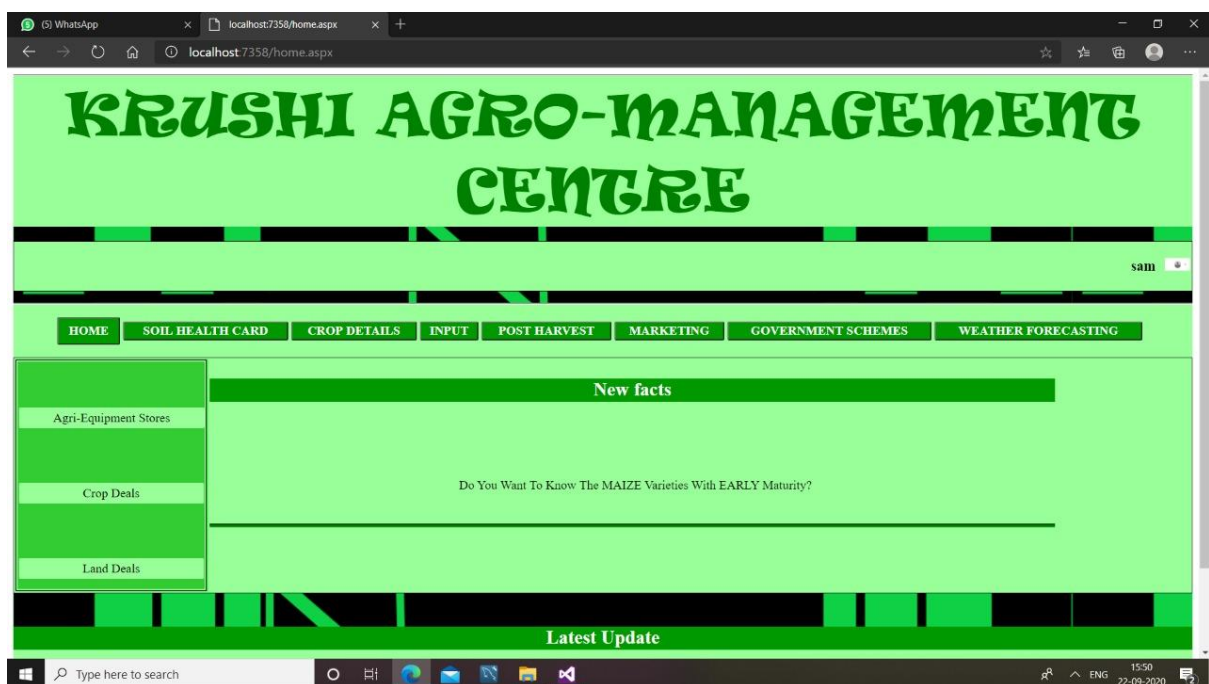
The screenshot shows the same web browser window, but the "INPUT" link in the navigation bar is now active. The sidebar on the left has a link labeled "Farming Procedure" which is highlighted. The main content area is titled "farming procedure" and contains a form with two dropdown menus: "SELECT CROP" (set to "-crop-") and "SELECT LANGUAGE" (set to "English"). A "Done" button is located below the dropdowns. At the bottom of the page, there is a section titled "Latest Update" with three lines of text: "India's agriculture exports up 23.24 per cent to over Rs 25,500 crore in March-June: Government", "India's agricultural exports up 23.24% to over Rs 25,500 crore in March-June", and "Indian agriculture will emerge world class in coming times: Shah".

Post-Harvest: click on Post harvest -> Market price then the below page will be displayed here you check the market price of the crops.



Commodity	Variety	MSP for 2019-20 (Rs per quintal)	MSP for 2020-2021 (Rs per quintal)	Increase over previous year (Rs per quintal)
KHARIF CROPS				
Paddy	Common	1815	1868	53
	Grade 'A'	1835	1888	53
Jowar	Hybrid	2550	2620	70
	Maldandi	2570	2640	70
Bajra		2000	2150	150
Maize		1760	1850	90
Ragi		3150	3295	145
Arhar (Tur)		5800	6000	200

Marketing: This page will work same as other online shopping websites (such as Amazon.com). In this page you will get three options: Agri-Equipment stores, Crop deals and Land deals.



Marketing

Agri-Equipment Stores

Crop Deals

Land Deals

New facts

Do You Want To Know The MAIZE Varieties With EARLY Maturity?

Latest Update

Government Schemes: Here, the farms will get the updated news related to the government schemes related to the agriculture sector.

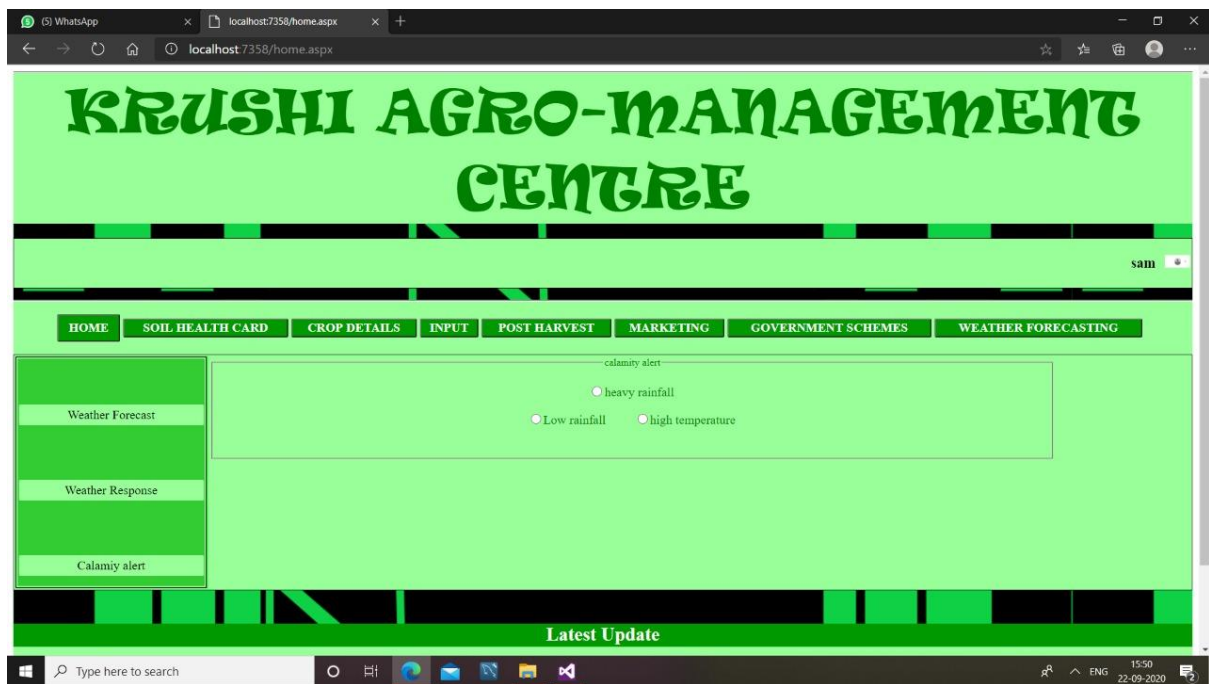


Weather Forecasting: Click on Weather Forecasting -> enter the name of the state and district -> done, then the weather report of that district will be displayed as show in the below image.

Date	12-09-2020	13-09-2020	14-09-2020	15-09-2020	16-09-2020	Total/Average
Rainfall(mm)	13.0	18.0	35.0	35.0	23.0	124
Max. Temp. (°C)	31.0	31.0	30.0	30.0	29.0	30.2
Min. Temp. (°C)	22.0	22.0	22.0	22.0	21.0	21.8
Cloud Cover(octa)	6	6	7	7	7	---
RH Max.(%)	90	92	91	92	96	92.2
RH Min.(%)	85	78	85	85	84	83.4
Wind Speed(kmph)	2.0	2.0	2.0	2.0	2.0	2
Wind Dir.(Deg)	158	161	259	289	238	---

Weather Response: Here, after clicking on the Weather response -> fill in the response regarding section -> select the time period -> select the language. After that you will get the information (If you have an e-mail account you will receive a mail about the weather response) about the weather on your phone.

Calamity Alert: Here, you will be alerted if there is any situation of Heavy rainfall, Low rainfall or High temperature.



CONCLUSION

To eliminate the earlier problems faced by the farmers, we have designed & developed this website. It enhances the production & helps in the development of Agriculture Sector. This website will make farming trouble free & reduce most of the burden faced by the farmers. Our only aim was to make farming process easier. The website includes "government schemes" section which will help farmers to understand schemes and policies in detailed and on a adequate time. As well it allows farmers to contact directly to other side person (for importing or exporting) without any broker in between them which will save their most of the time and money.

FUTURE SCOPE OF THE PROJECT

Agriculture sector contributes the great economical support in India's economy. But from few years, we are facing lot of problems. In order to eliminate this issue, we have design this project. This project will help the farmer to enhance the agricultural production which will indirectly help our nation economy. This project will help them to save time and money which they spent on trying various resources for adequate information regarding agriculture process.

Our project will keep the farmer updated with the upcoming governments acts and policies developed for farmers welfare which are mostly unknown to some farmers. It will introduces the concept of modern-age farming with the upcoming technological researches in agriculture sector as well It will bring a systematic and well-planned Agriculture process into existence which will be known to all Indian farmers.

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