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Introduction

AgriBazar is like a superhero for farmers, swooping in to tackle their biggest problems head-on. You see, farmers often struggle with fake or low-quality products and not knowing what to do when their crops are in trouble. But AgriBazar is changing all that! They offer a wide range of top-notch products that farmers can trust, making sure they're getting the real deal every time. It's like having a wise old farmer right in your pocket!

AgriBazar isn't just about helping farmers though, they're also making sure everyone can easily get their hands on quality agricultural products. By using technology to make buying and selling smoother, AgriBazar is leveling the playing field for everyone involved. So, whether you're a farmer looking for the best seeds or a customer wanting fresh produce, AgriBazar is here to make sure you get what you need, when you need it. It's all about making farming simpler and more successful for everyone!

1.1 Existing System

AgriLink promises to help farmers with their needs, but it falls short in a couple of big ways.

Firstly, it doesn't give farmers helpful advice on how to grow their crops better.

In farming, knowing the right techniques can make a huge difference, but AgriLink doesn't provide this kind of guidance.

Secondly, using AgriLink isn't very easy or enjoyable.

The website is hard to use, and there aren't any fun or useful features like personalized tips or ways for farmers to connect with each other.

Overall, AgriLink doesn't live up to its promise of being a helpful tool for farmers because it lacks important features and isn't user-friendly.

1.2 Need for New System

Farmers are looking for something better than what's currently out there, like AgriLink.

The problem is, existing systems only offer links to buy products and don't offer much else.

Need for the new system is farmers and customers can buy products from within the website.

Farmers are also not allowed to share tips in existing system which is needed.

With a better system in place, farming could become more efficient and successful for everyone involved.

1.3 Objective of the New System

The primary objective of AgriBazar is to revolutionize the agricultural industry by providing a reliable and accessible platform that serves the following key purposes:

- AgriBazar aims to ensure that farmers have access to genuine and high-quality agricultural products. This objective involves sourcing and offering a wide range of dependable items that farmers can trust, thereby enabling them to make informed decisions that contribute to improved crop health and higher yields.

- The platform aims to make the buying and selling of agricultural products more accessible for all stakeholders involved. By leveraging technology and implementing user-friendly features, AgriBazar strives to streamline the purchasing process, leveling the playing field and empowering farmers to access essential resources with ease.

- AgriBazar endeavors to go beyond being a mere marketplace by fostering a sense of community among farmers and customers. Through providing a platform for interaction and collaboration, the system aims to facilitate knowledge-sharing and support networks within the agricultural community. This objective enriches the agricultural industry by promoting mutual growth, fostering relationships, and facilitating the exchange of valuable insights and experiences among members.

1.4 Problem Definition

Reliable Product Sourcing:

AgriBazar serves as a dependable source of agricultural products, offering a wide range of top-notch items that farmers can trust. By ensuring the availability of genuine and high-quality products, AgriBazar helps farmers make informed decisions, leading to improved crop health and higher yields.

Enhanced Accessibility:

Through its user-friendly platform, AgriBazar strives to make buying and selling agricultural products more accessible for everyone involved. By leveraging technology, AgriBazar streamlines the purchasing process, leveling the playing field and empowering farmers to access essential resources with ease.

Community Support:

Beyond just being a marketplace, AgriBazar fosters a sense of community among farmers and customers. By providing a platform for interaction and collaboration, AgriBazar facilitates knowledge-sharing and support networks, enriching the agricultural community and promoting mutual growth and success.

1.5 Core Components

1) Product Catalog: This component comprises a comprehensive database of agricultural products available for purchase on the platform. It includes detailed information about each product, such as prices, and availability.

2) User Management: This component manages user accounts and profiles, including registration, authentication, and account settings. It also includes features for farmers, suppliers, and other stakeholders to create and manage their profiles and view transaction history.

3) Order Management: This component handles the entire order lifecycle, from order placement to fulfillment and delivery. It includes features for users to browse products, add items to their cart and place orders.

4) Search: This component provides robust search capabilities to help users find specific weather forecast according to city.

5) Payment Gateway: This component facilitates secure online transactions by integrating with payment gateways to process payments from users and cash on delivery too.

6) Community Engagement: This component fosters community interaction and collaboration among farmers and other users.

7) Customer Support: This component offers customer support services to assist users with inquiries, issues, and feedback. It includes channels such as contact us and knowledge bases to provide timely assistance and ensure a positive user experience.

8) Security and Compliance: This component ensures the security and compliance of the platform by implementing measures to protect user data and prevent unauthorized access.

1.6 PROJECT PROFILE

PROJECT TITLE	AgriBazar
GROUP NO.	50
GROUP MEMBERS	Jani Dinky Ajitkumar Patel Vedangi Nandubhai
INTERNAL GUIDE	Prof. Kunjan Jesingani
EXTERNAL GUIDE	Mr. Ravi Lukka
FRONT-END	HTML5, CSS3, Bootstrap, JavaScript
BACK-END	Python, Django, MySQL

1.7 Assumptions and Constraints

Assumptions:

The AgriBazar is assumed to be compatible with Windows 7 and above. Hardware should contain a minimum of 4GB Ram is the limitation of the Hardware.

Constraints:

- In the name, number is not allowed.
- In the phone number characters are not allowed.
- Email id should be in the proper format containing '@' and '.'
- Every field is required in every form.

1.8 Advantages and Limitations

Advantages:

- Enjoy the best convenience with AgriBazar offering of competitive prices and a wider variety of agricultural products.
- Contact our dedicated admin team for swift resolution of any problems or issues you encounter, ensuring a seamless experience on AgriBazar.
- Our efficient admin system makes it easy to manage orders, products, and other aspects of the platform, guaranteeing smooth operations for both users and sellers.
- Access valuable crop information directly through AgriBazar, empowering users with the knowledge they need to make informed decisions and optimize their farming practices.

Limitations:

- AgriBazar relies heavily on internet connectivity and digital devices for operation. This could pose challenges for users in rural or remote areas with limited access to reliable internet services or technology.
- AgriBazar offers crop information to users, it acknowledges the importance of providing more comprehensive agronomic guidance. Plans are in place to collaborate with experts in the field to develop tailored resources and educational materials that empower farmers to make informed decisions about their crops.

2.1 Requirement Determination

Existing System Problems:

1) **Lack of Agricultural Guidance:**
   AgriLink fails to provide farmers with valuable advice on crop cultivation techniques and best practices.
   Without this guidance, farmers may struggle to optimize their crop yields and overall productivity.

2) **Poor User Experience:**
   AgriLink's website is difficult to navigate and lacks user-friendly features.
   The absence of personalized tips and interactive elements diminishes the overall user experience.

3) **Limited Community Engagement:**
   There are no features within AgriLink that facilitate connections or interactions among farmers.
   The platform lacks a sense of community, hindering knowledge-sharing and support networks among agricultural stakeholders.

Proposed System Requirements:

1) **Comprehensive Agricultural Guidance:**

   AgriBazar should incorporate a robust resource section with detailed guides and expert advice on crop cultivation techniques, pest management, soil health, and other relevant topics.

2) **Enhanced User Experience:**

   AgriBazar's website and mobile application should prioritize usability and accessibility.
   Implementing intuitive navigation, clear categorization of products, and search functionalities can improve user experience.

3) **Quality Assurance and Trustworthiness:**

   AgriBazar should implement stringent quality control measures to ensure that all listed agricultural products are genuine, high-quality, and meet industry standards.
   Incorporating user reviews and ratings can provide transparency and help buyers make informed purchasing decisions.

2.2 Targeted Users

MODULES:

ADMIN

- Admin manages user accounts.
- Admin can manage products and its categories related to farm.
- Admin manages questions of customers.
- Admin can manage ratings and reviews.
- Admin manages crop information
- Admin manages payment of the products.

CUSTOMER

- Customer can create an Account.
- Customer can place order.
- Customer can do payment in different ways.
- Customer can give review and ratings.
- Customer can see any type of crop information.
- Customer can able to see crop saving techniques.
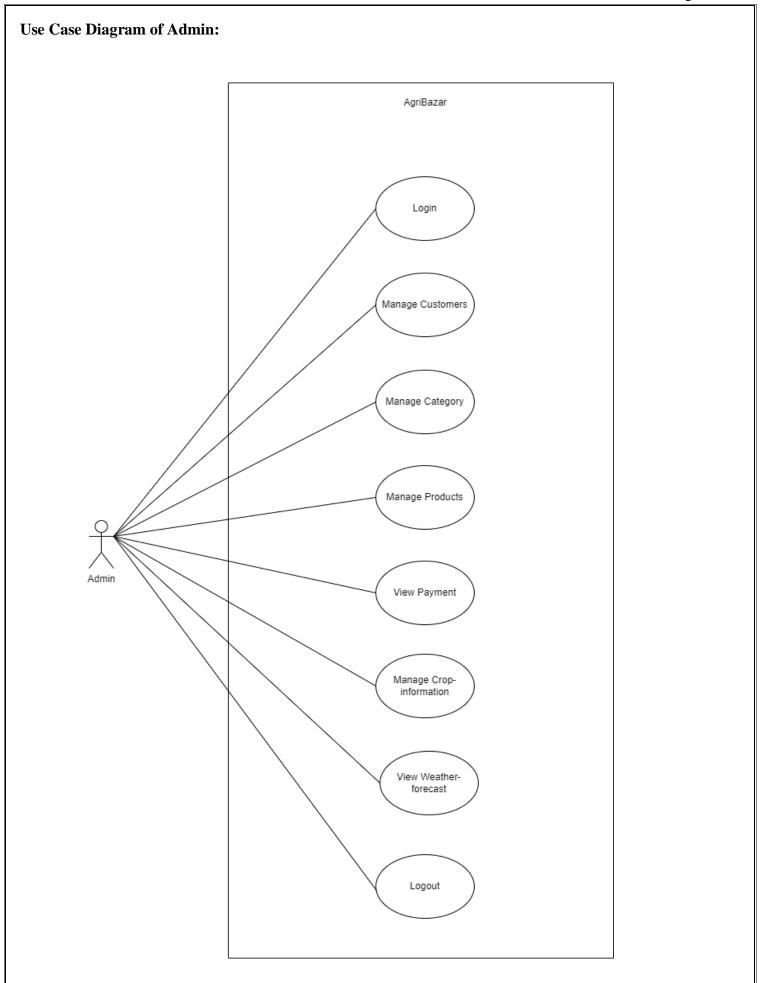
3.1 Use Case Diagram

- Use-case diagram provide a simple and fast means to decide & describe the purpose of a project.
- It is one type of interaction model & it is describing how object interact to produce useful result.
- At high level use-case describes how a system interacts with outside actor. Each use-case represent functionality of a system along with users.
- A system involves a set of use-cases and a set of actors.
- Each use-case represents functionality of the system & set of use-cases represent the complete functionality of system.
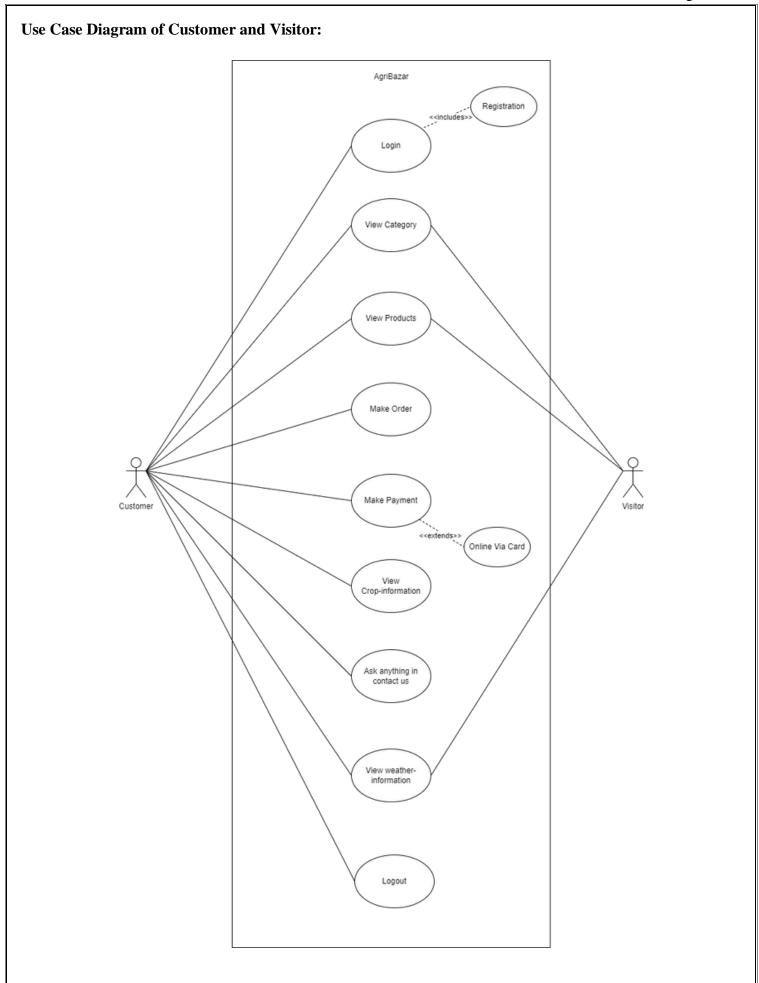
SymbolsofUse-CaseDiagram

- Actor:

- Use case:

- System boundary:

- Relationship:

Use Case Diagram of Admin:

AgriBazar

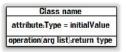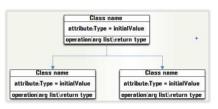**Use Case Diagram of Customer and Visitor:**

3.2 Class Diagram

- The purpose of class diagram is to show the static structure of the system being model.
- It represents the classes & relationship in the system.
- The class diagrams have mainly2 purposes.
  - Understanding the requirements
  - Describing the detail design

Symbols of Class Diagram

• class:

• Generalization :

• Aggregation:

Crop-information

+ CropName: Varchar
+ CropPhoto: Varchar
+Crop-information: Varchar

+add_cropinfo()
+update_cropinfo()

1..*   1..*

User

+ Firstname: Varchar
+ Lastname: Varchar
+ Emailid: Varchar
+ Phonenumber: Varchar
+ Password: Varchar

+fill_form()

1..*   1..*   1..*

Weather

+ City:Varchar

+search_city()

Category

+Category_type: Varchar

+add_category()
+update_category()

1..*   1..*

Products

+ Productname: Varchar
+ ProductPhoto: Varchar
+Price:int
+Quantity: int

+add_item()
+update_item()

1..*

1..*

Order

+ Payment : Varchar
+ OrderQuantity: int

+make_payment()
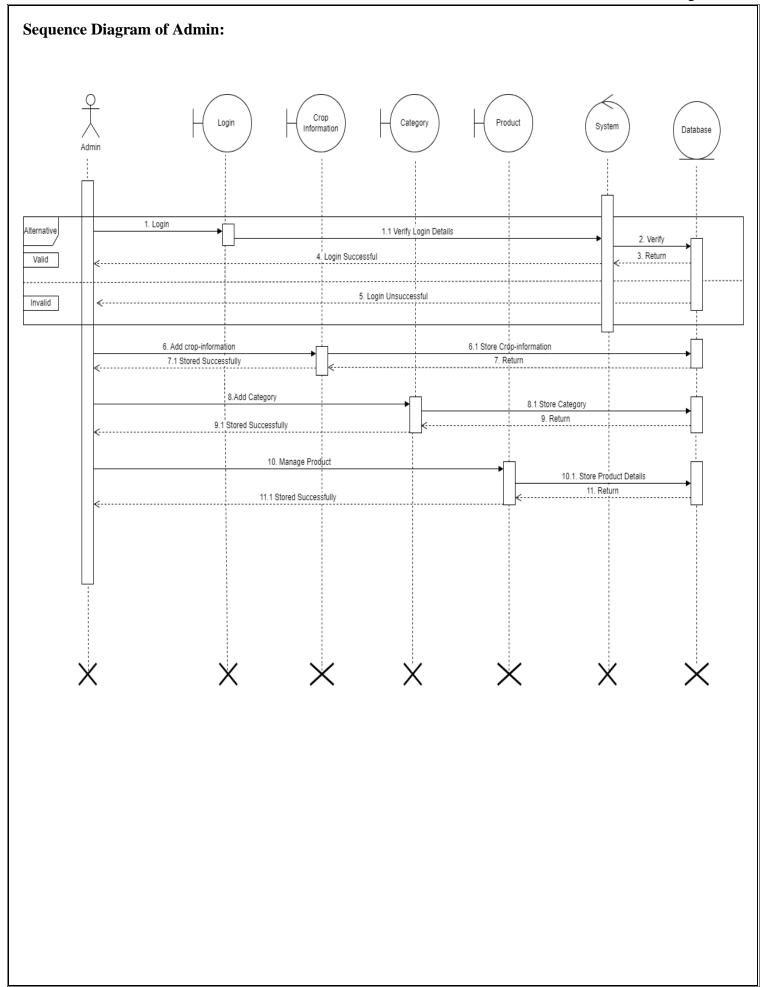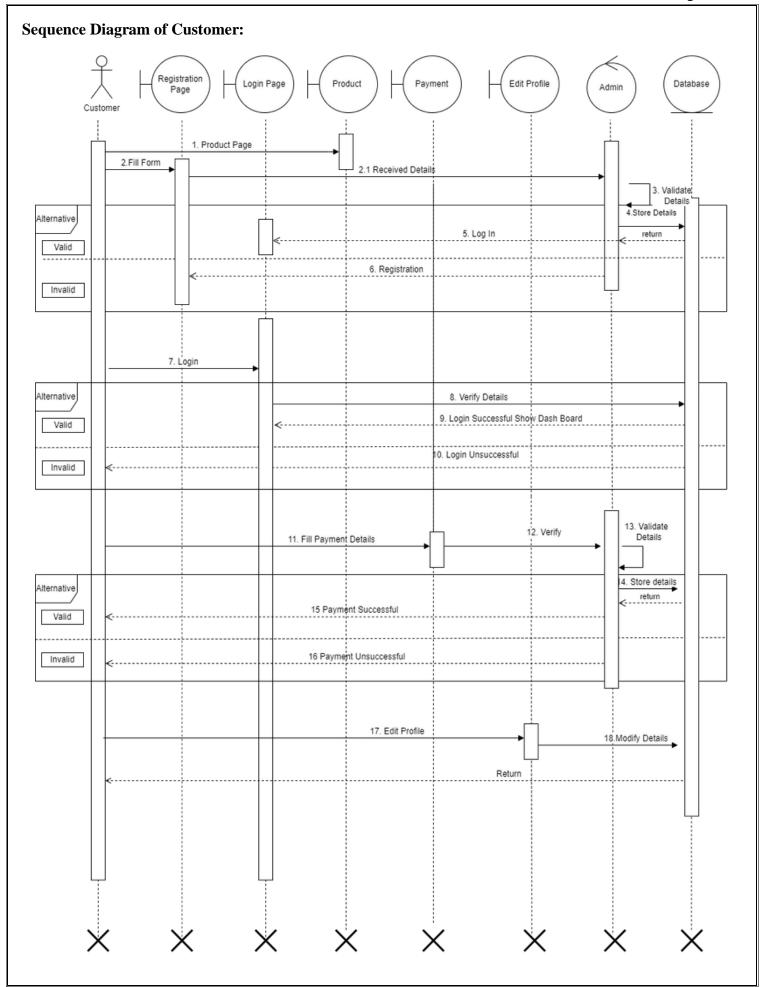+generate_invoice()

1..*

1..*

3.3 Sequence Diagram

- The sequence diagram is used to show the interaction between objects that occur in the sequential order by sending & receiving the message among them.
- Sequence diagram is in the transition from requirements express as use case to the next& more formal level of refinement.
- The main purpose of a sequence diagram is to define events sequences that result in some desire outcome.
- Sequence diagram communicate what messages are send between objects as well as the order in which message occur.

Symbols of Sequence Diagram

- Lifeline:

- Message :

- Message(Return):

- Activation :

Sequence Diagram of Admin:

Sequence Diagram of Customer:

3.4 Activity Diagram

- It is the equivalent of flow chart diagram.
- It is showing flow of control from activity to activity.
- It is used for modeling the logic captured by a single use-case scenario.
- Activity diagram is used for simple & perspective illustration of what happens in a work flow, what activities can be done in parallel & whether their area alternative path through the workflow.
- It shows the work flow from a start point to the finish point detailing the many decision paths that exists in the progression of events contain in the activity.
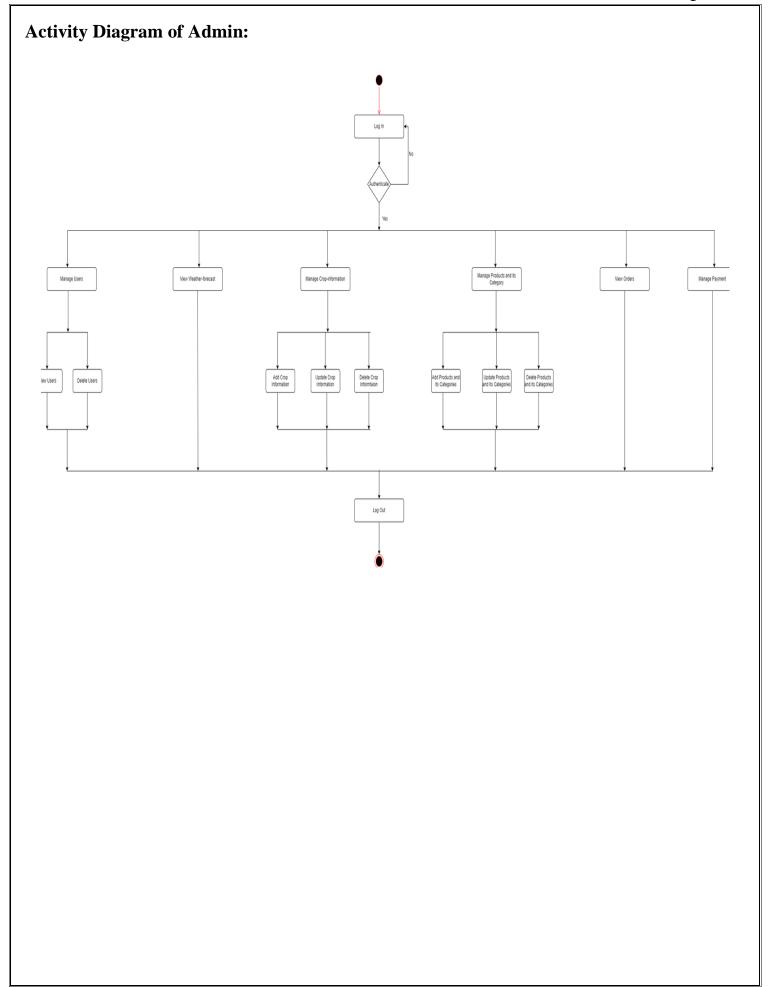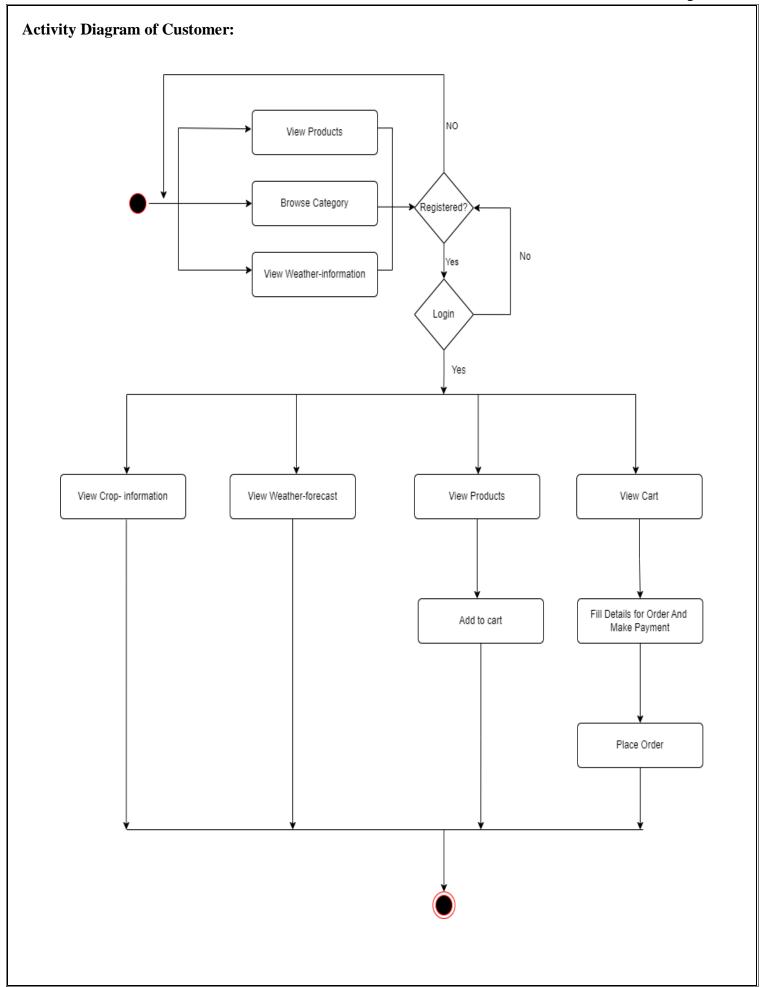
Symbols of Activity Diagram

1) Initial state:

2) Final state :

3) Action:

4) Transition:

5) Decision:

6) Fork:

7) Join:

Activity Diagram of Admin:

Activity Diagram of Customer:

3.5. Data Dictionary

3.1 Table: USER			Primary Key: USER_ID	
			Foreign Key: ----	

Field name	Data type	Size	Constraint	Description
user_id	Integer	10	PK	User Id
first_name	Varchar	25	Not null	First name of user
last_name	Varchar	20	Not null	Last name of user
Username	Varchar	25	Not null	Username of user
Email	Varchar	50	Not null	Email of user
Password	Varchar	10	Not null	Password of user
user_mo	Varchar	10	Not null	user`s Mobile number
State	Varchar	15	Not null	State of user
District	Varchar	15	Not null	District of user
City	Varchar	15	Not null	city of user

3.2 Table : CATEGORY			Primary Key :CATEGORY_ID	
			Foreign Key :-----	

Field name	Data type	Size	Constraint	Description
category_id	Integer	10	Pk	Category id
category_name	Varchar	15	Not null	Name of category

3.3 Table : PRODUCT	Primary Key :PRODUCT_ID
	Foreign Key : ----

Field name	Data type	Size	Constraint	Description
product_id	Integer	10	Pk	Product Id
category_id	Integer	10	Fk	Fetch data from category table
product_name	Varchar	30	Not null	Name of product
Price	Decimal	10	Not null	Price of product
desc	Text		Not null	Description of product
product_Image	Blob		Not null	Image of product

3.4 Table : TOP_PRODUCT	Primary Key: TOPPRODUCT_ID
	Foreign Key: PRODUCT_ID

Field name	Data type	Size	Constraint	Description
topproduct_id	Integer	3	Pk	Top Products Id
product_id	Integer	10	Fk	Fetch data from product table

3.5 Table : ORDER	Primary Key :ORDER_ID
	Foreign Key :UDER_ID, PRODUCT_ID

Field name	Data type	Size	Constraint	Description
order_id	Integer	10	Pk	Order Id
user_id	Integer	10	Fk	Fetch data from User table
product_id	Integer	10	Fk	Fetch data from product table
amount	Decimal	10	Not null	Amount of ordered product
name	Varchar	25	Not null	Name of user
email	Varchar	25	Not null	Email of user
contact_no	Varchar	10	Not null	Contact number of user
address	Text	-	Not null	Address of user
city	Varchar	25	Not null	City of user
state	Varchar	25	Not null	State of user
zip_code	Integer	6	Not null	Zip code of user
date	Date	-	Not null	Date of ordered product

3.6 Table : CONTACT US			Primary Key :CONTACT_ID	
Field name	**Data type**	**Size**	**Constraint**	**Description**
contact_id	Integer	10	Pk	Contact Id
Name	Varchar	25	Not Null	Name of User
Email	Varchar	50	Not Null	Email of User
contact_no	Varchar	10	Not Null	Contact number of User
Desc	Text	-	Not Null	Describe issue of the User

4. Screenshots
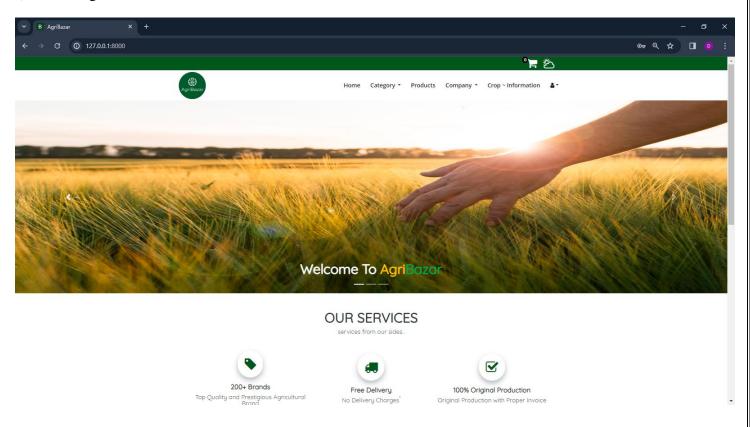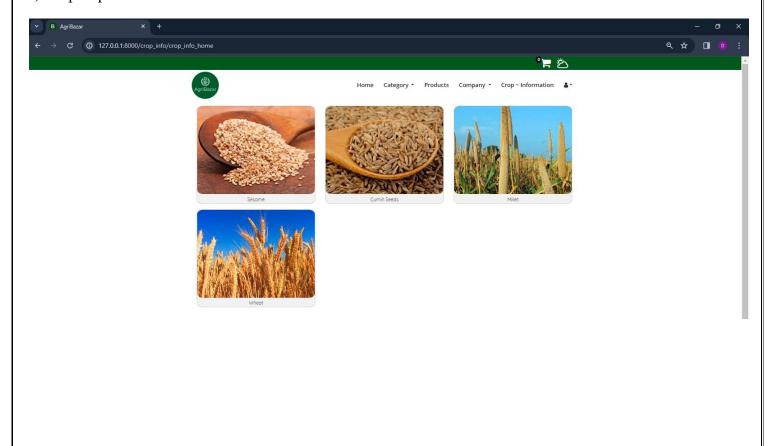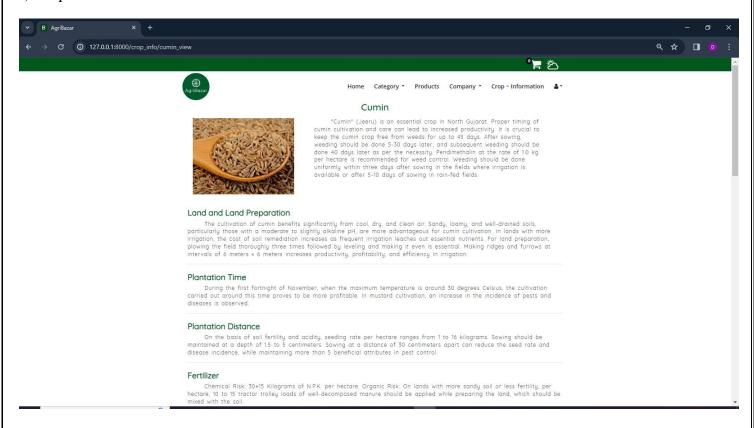
1) Registration

2) Login

3) Home Page

4) Crop Explore
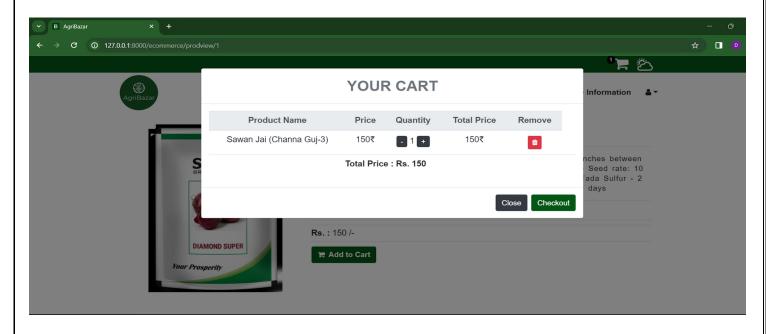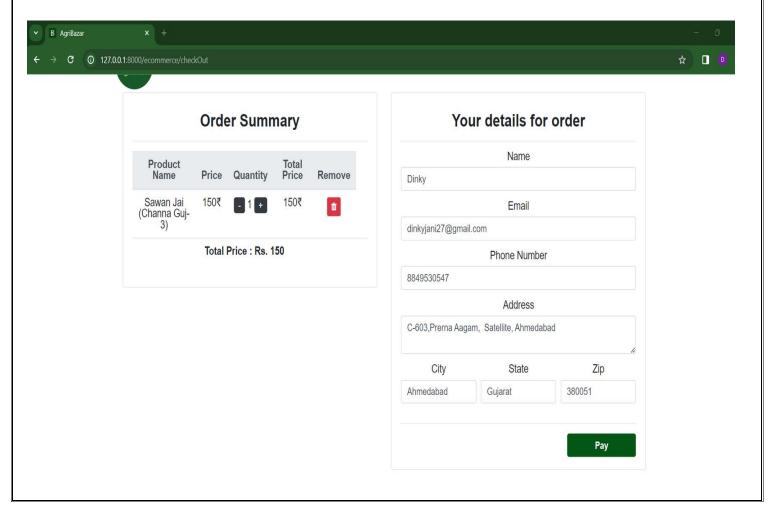
5) Crop information

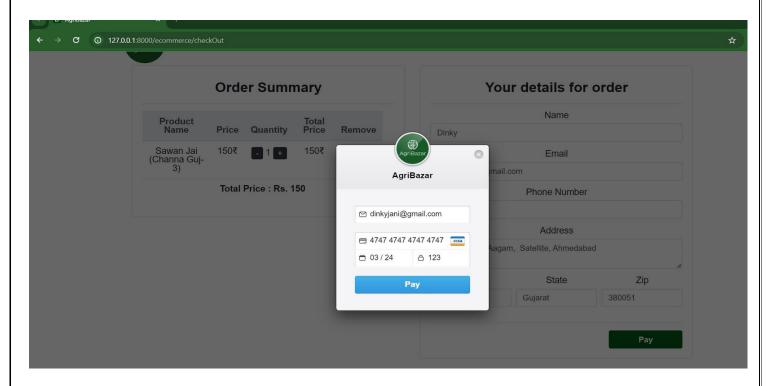## 6) Product Detail

7) Product Added in Cart

8) Checkout Page

9) Payment

10) Confirm Order

11) Invoice

Order Details :

Order Id: #52

Order Date: March 30, 2024

Payment System: Via Card

Full Name: Dinky

Contact: 8849530547

Address:C-603,Prerna Aagam, Satellite, Ahmedabad

City: Ahmedabad

State: Gujarat

Image	Product Name	Quantity	Price
	Sawan Jai (Channa Guj-3)	1	Rs.150

Thank you for order..   Total Amount: **Rs.150**

12) Weather

13) About Us

14) Contact Us

15) My Profile

16) Edit Profile

5.1 Agile Project Charter

❖ Background Information: -
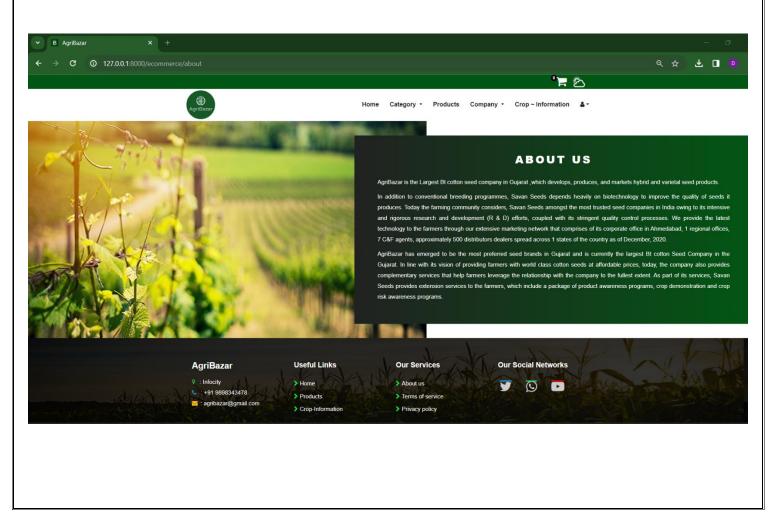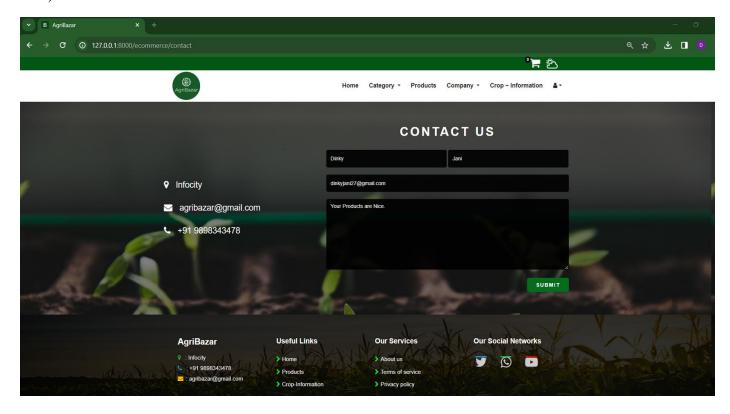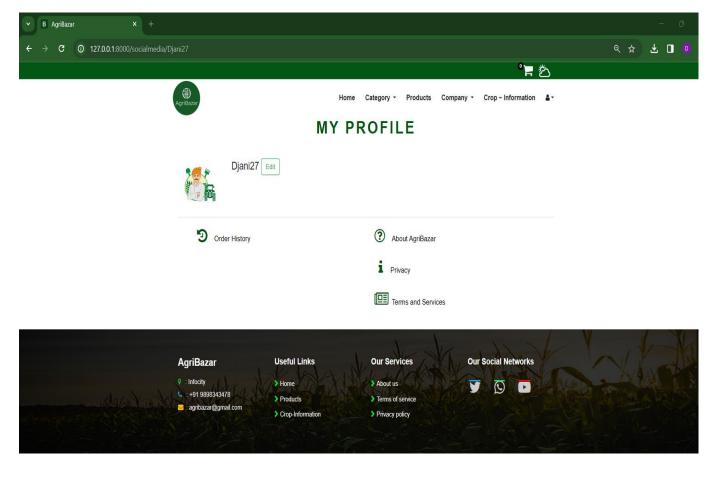
Here we have used Python Framework Django to create Website. For the data storing we are using MySQL and for the designing we use HTML, CSS, BOOTSTRAP and JAVA SCRIPT.

❖ Scope: -

User can browse and purchase agricultural items from and to their location. Additionally, may learn about crop-related preparations, weather, and ways to repair agricultural damage.

Primary Objective
- Enable users to browse and purchase agricultural items tailored to their location, facilitating access to essential resources for farming and gardening needs.

Secondary Objective
- Provide users with valuable information on crop-related preparations, weather forecasts, and agricultural damage repair techniques, enhancing their knowledge and resilience in agricultural practices.

Project Members
1. Jani Dinky Ajitkumar
2. Patel Vedangi Nandubhai

Target Project Completion Date
02nd April 2024

Approval Signatures/Date of Approval

<table>
<tr><td>Jani Dinky</td><td>Patel Vedangi</td></tr>
<tr><td>Prof. Kunjan Jesingani
(Internal Guide)</td><td>Mr. Ravi Lukka
(External Guide)</td></tr>
</table>

5.2. Agile Roadmap / Schedule

Quick Fix	Q3		Q4	
	January	February	March	April
Registration, Login, Manage users	Registration / Login / Manage Users			
Explore Products, Order Product, Make Payment		Explore Products / Order Products / Payment		
Manage Profile, View Order History, View Crop Information, Testing			Manage Crop-information / Manage Products / Manage Orders / Testing	

5.3. Agile Project Plan

Project Name: AgriBazar
Start Date: 01-01-2024
End Date: 02-04-2024

TASK NAME	START	END	DAYS	STATUS
Analysis of Project Requirement	01/01	05/01	05	Complete
Diagrams and Data Dictionary	06/01	15/01	10	Complete
Designing User-side Modules	16/01	15/02	30	Complete
Models	16/02	25/02	10	Complete
Views and Urls	26/02	16/03	10	Complete
Agile Documentation	17/03	31/03	17	Complete

5.4 Agile User Story

In the system there are two types of users

- Admin
- Customer

Admin

→ As an Admin, I am able to add, update, delete products with all relevant information such as name, description, price, image so that Products can be show in website.

→ As an Admin, I have to display Product Categories to Customer so I can add, update and delete Product Categories.

→ As an Admin, I have to display Crop Information to Customer so I can add, update and delete Crop Information.

→ As an Admin, I have to take care of all the data of the customer, so I can view all the details of them and handle it.

→ As an Admin, I have to manage orders related all information like order purchased successfully so that customers will not be able to face problem related to orders.

Customer

→ As a customer I want to register in the application so that I can login in the website.

→ As a customer I want to Login in the application so that I can enter in the website.

→ As a customer I want to explore products so that I can view the products.

→ As a customer I want to add to cart products so that I can add products to add to cart.

→ As a customer I want to order products so that I can order products.

→ As a customer I want to view ordered products so that I can view ordered products.

→ As a customer I want to see crop related information so that I can view crop-information.

→ As a customer I want to see weather condition so that I can view current weather.

5.5 Agile Release Plan

Sprint	Task	Start	End	Duration	Status	Release Date
Sprint 1	Registration	16-01-2024	22-01-2024	7	Released	22-01-2024
	Login	23-01-2024	31-01-2024	9	Released	31-01-2024
	Manage User	01-02-2024	15-02-2024	15	Released	15-02-2024
Sprint 2	Explore Products	16-02-2024	20-02-2024	5	Released	20-02-2024
	Order Products	21-02-2024	01-03-2024	10	Released	01-03-2024
	Payment	02-03-2024	13-03-2024	12	Released	13-03-2024
Sprint 3	Manage Crop-information	14-03-2024	19-03-2024	6	Released	19-03-2024
	Manage Products	20-03-2024	26-03-2024	7	Released	26-03-2024
	Manage Orders	27-03-2024	30-03-2024	4	Released	31-03-2024

5.6. Agile Sprint Backlog

Task Name	Responsible	Story	Sprint Ready	Days	Priority	Status
Registration	Dinky	Yes	Yes	7	High	Complete
Login	Vedangi	Yes	Yes	9	Medium	Complete
Manage Users	Dinky	Yes	Yes	15	Low	Complete
Manage Products	Vedangi	Yes	Yes	7	High	Complete
Explore Products	Dinky	Yes	Yes	5	Low	Complete
Order Products	Dinky	Yes	Yes	5	High	Complete
Manage Crop Information	Vedangi	Yes	Yes	6	Medium	Complete
Payment	Dinky, Vedangi	Yes	Yes	12	Medium	Complete
Manage Order History	Vedangi	Yes	Yes	5	High	Complete
Manage Categories	Dinky	Yes	Yes	3	Medium	Complete
Manage Orders	Vedangi	Yes	Yes	4	High	Complete
Testing	Dinky, Vedangi	Yes	Yes	3	High	Complete

5.7 Agile Test Plan

Project Name	AgriBazar	Browser:	Chrome
Test Case ID	1	**Version:**	1
Written By:		**Description:**	
Tested By:	DINKY JANI, VEDANGI PATEL	**Tested On:**	

Test No	Date	Action	Expected Results	Actual Results	Pass?
1	22-01-2024	Registration of User	User should get registered	User gets registered	☑
2	31-01-2024	Customer Logging in	Should login and go to the Home Screen	Customer logs in and gets the Home Screen	☑
3	20-02-2024	Explore Products	Products should be categorized properly	Product Categorized successfully	☑
4	01-03-2024	Order Products	All the orders must be visible on the screen	All the orders are visible	☑
5	13-03-2024	Make Payment	Take user to the Payment screen	Users get the Payment screen	☑
6	19-03-2024	Manage Crop-information	User should be able to explore different crop information	User gets the crop-information successfully	☑
7	31-03-2024	Logout	User should be able to logout	By clicking on the logout option, the user can logout	☑

6. Future Enhancement

- By extending our user base to include wholesalers and distributors, we aim to provide bulk purchasing options and specialized pricing, catering to the diverse needs of businesses within the agricultural supply chain.

- Seamlessly integrating popular mobile wallets such as Apple Pay and Google Pay will offer our customers more convenient and secure payment options, enhancing their shopping experience.

7. Conclusion

- The agricultural e-commerce website presents a promising platform for farmers, suppliers, and buyers to engage in seamless transactions and access a wide range of agricultural products and services.

- By leveraging the power of digital technology, this platform not only facilitates efficient distribution channels but also fosters transparency and accessibility within the agricultural industry

8. Bibliography

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