

# Farmer's Era - FARMERA

An online farmer's market

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# What are we trying to do?

## 1. Whose problem are we trying to solve?

- Small scale farmers/producers
- People who prefer fresh farm food

## 2. Solution : Connect them

## 3. Requirement Analysis :

- **Producers** : options for secondary goods(like gur, ghee etc.), seasonal products, simple UI/UX
- **Consumers** : clear return/refund policies, working helpline number, clearly mentioned quality standards and food quality certificates, Info page of farm/producer

## 4. Model Choice : **Waterfall model**(requirements are clear and time bound project)

# Final Requirements

## Producer

### - Functionalities :

1. Login
2. Listing products
3. Farm detail page
4. Past sales record

### - View :

1. A few customer details
2. Delivery executive's details
3. Product page

## Consumer

### - Functionalities :

1. Login
2. Searching products
3. Payment and checkout
4. Writing reviews

### - View :

1. Farmer's detail page
2. Past purchases
3. Delivery executive's details

## Delivery executive

### - Functionalities :

1. Login
2. Pick-up and drop locations
3. Package details
4. Maps

### - View :

1. Farm detail page
2. Record of past deliveries

# Advantages and Disadvantages

## Advantages(USP):

1. Focuses on small scale producers
2. Live updates and reviews of farms
3. Wide variety of goods(seasonality taken into consideration)
4. Verification of farmers and their products : Quality certificates, identity proof etc.
5. Sales analysis and sales data management for farmers
6. Fresh products delivered because of fast delivery from nearby farms

## Disadvantages :

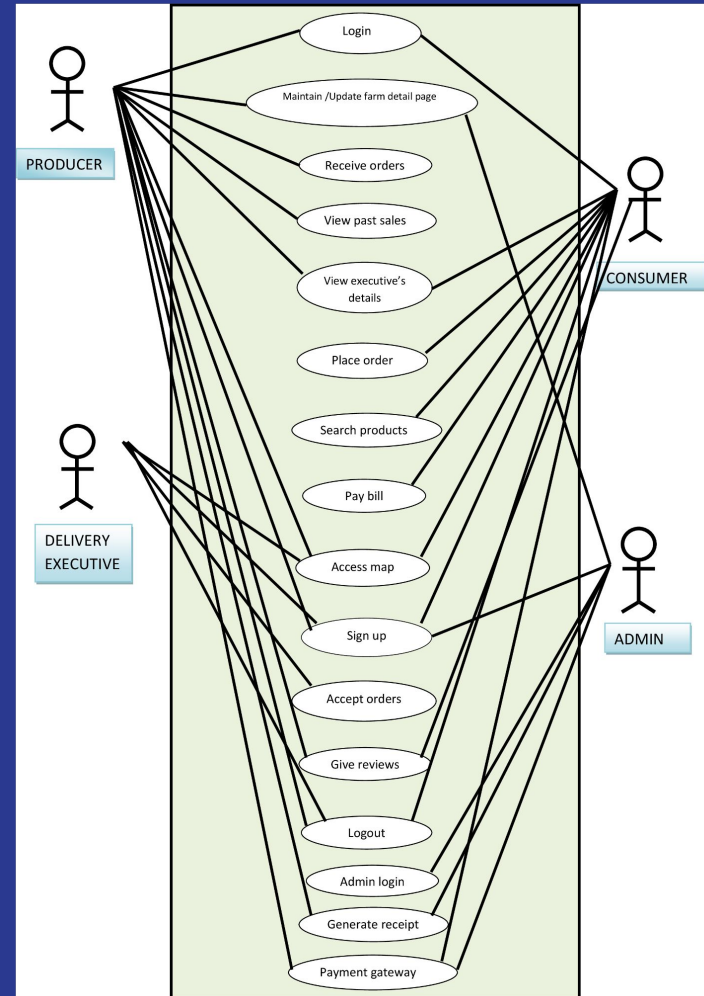
1. Delivery limitations : Due to economic constraints we cannot guarantee long and large scale delivery facilities
2. Storage limitations : Due to lack of storage facilities we cannot ensure the regularity in the stocks
3. Immediate commits cannot be made in the software, since we are using the waterfall model.

# Use case diagram

A use case diagram is used to represent the dynamic behavior of a system. It encapsulates the system's functionality by incorporating use cases, actors, and their relationships. It models the tasks, services, and functions required by a system/subsystem of an application. It depicts the high-level functionality of a system and also tells how the user handles a system.

## Purpose of Use Case diagram

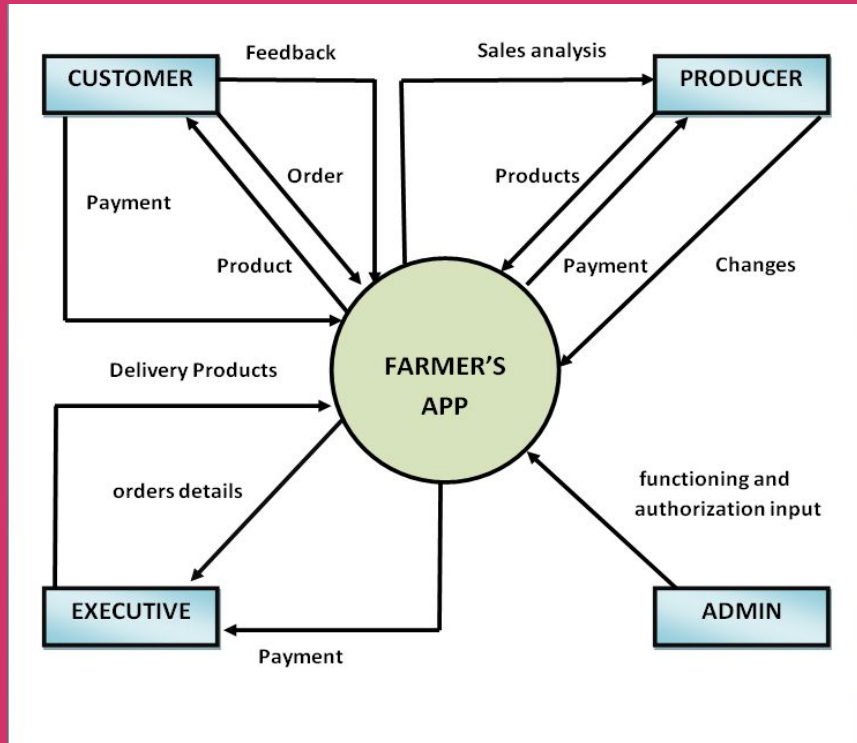
1. It gathers the system's needs.
2. It depicts the external view of the system.
3. It recognizes the internal as well as external factors that influence the system.
4. It represents the interaction between the actors.

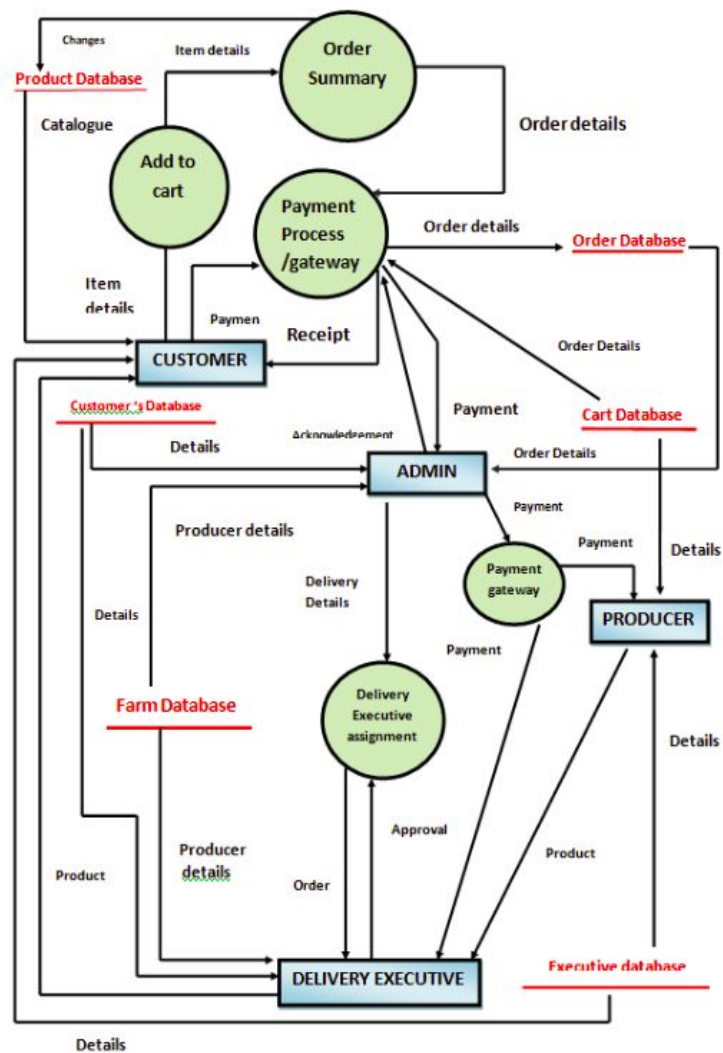


# What is DFD ?

**DFD** is the abbreviation for **Data Flow Diagram**. The flow of data of a system or a process is represented by DFD. It also gives insight into the inputs and outputs of each entity and the process itself. DFD does not have control flow and no loops or decision rules are present.

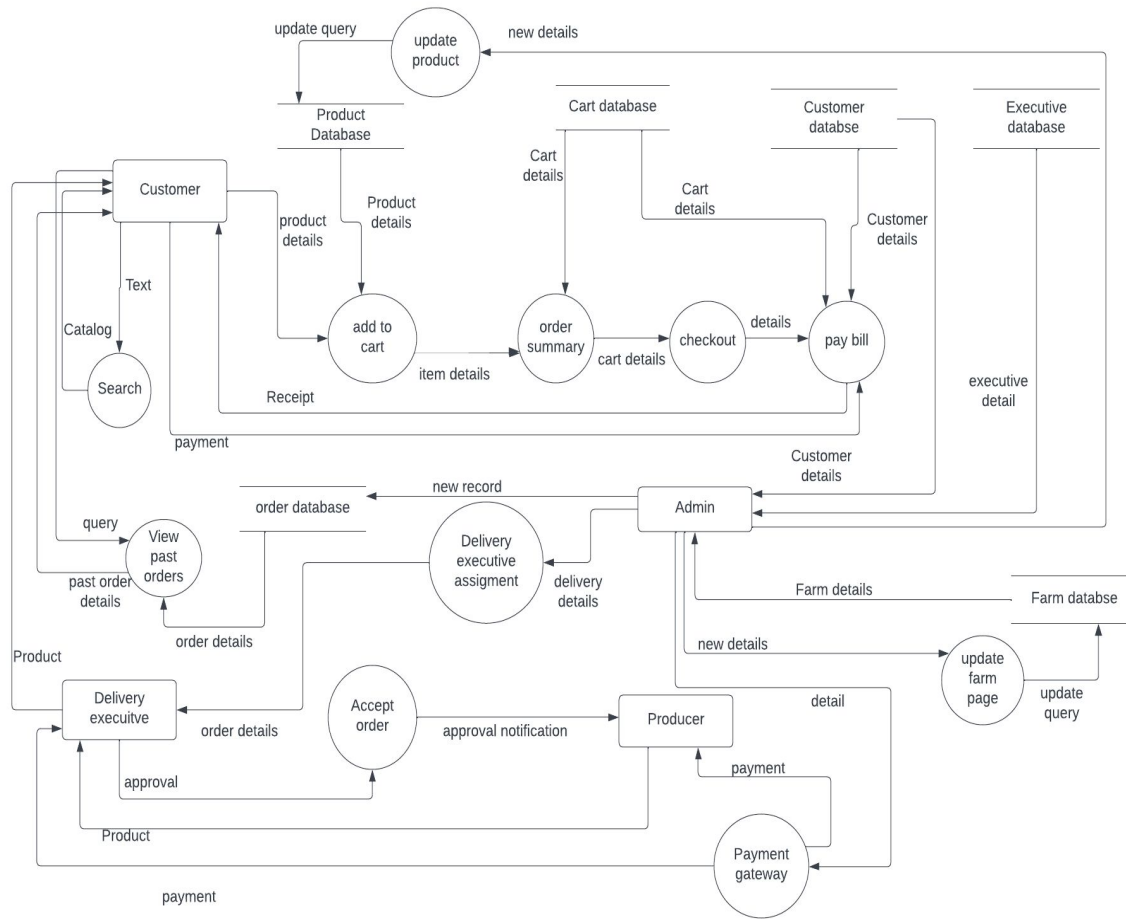
# Level -0 DFD





## Level -1 DFD



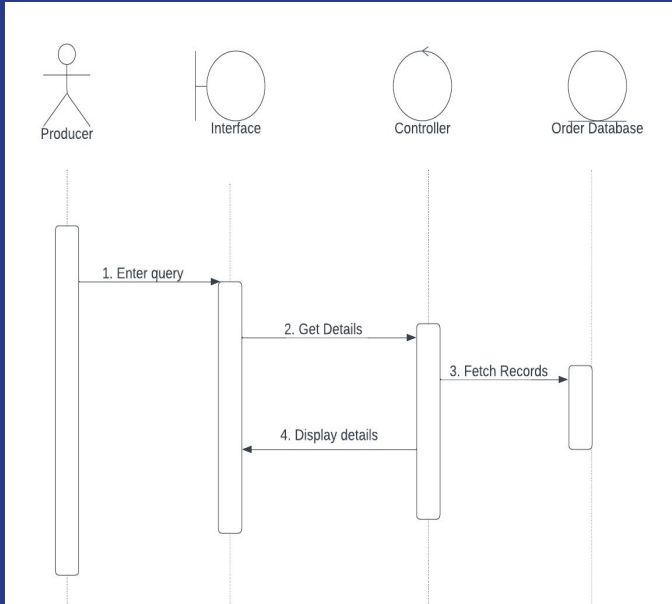


## Level -2 DFD

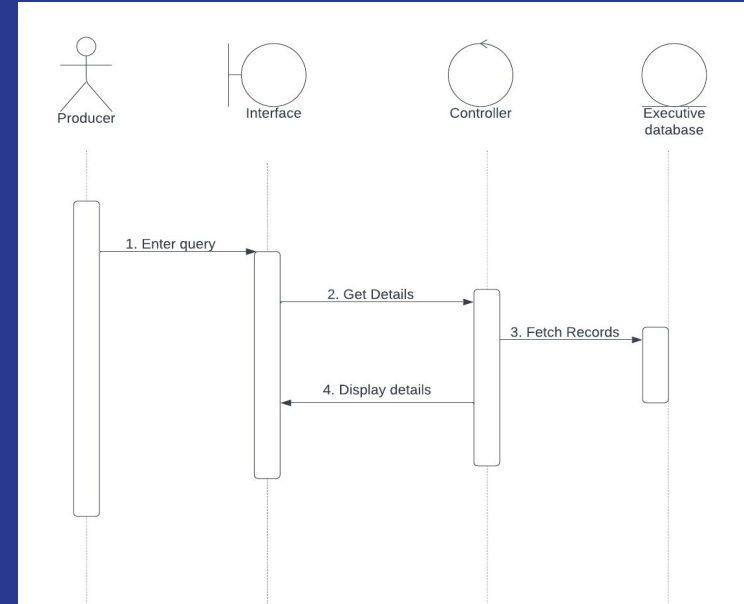
# What is Sequence Diagram?

A sequence diagram simply depicts interaction between objects in a sequential order i.e. the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function. These diagrams are widely used by businessmen and software developers to document and understand requirements for new and existing systems.

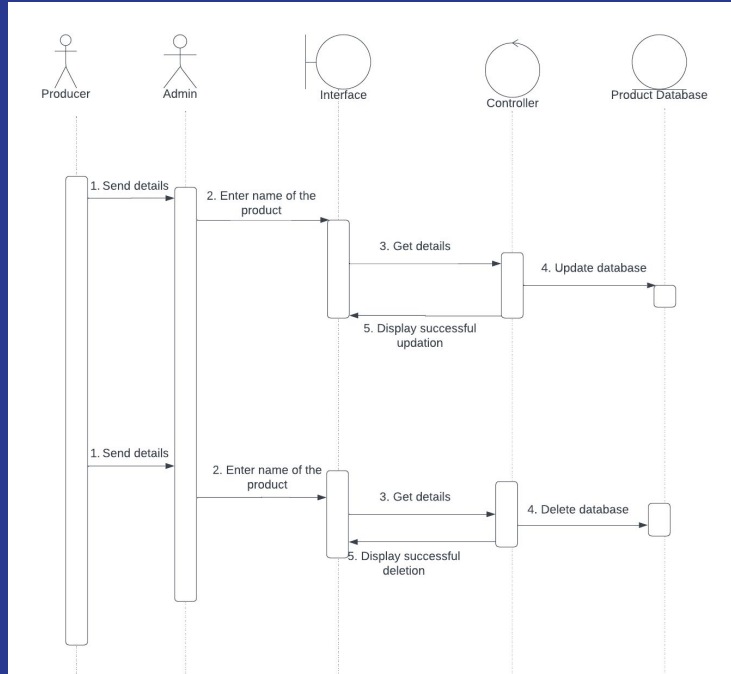
## Sequence diagram for view past sales



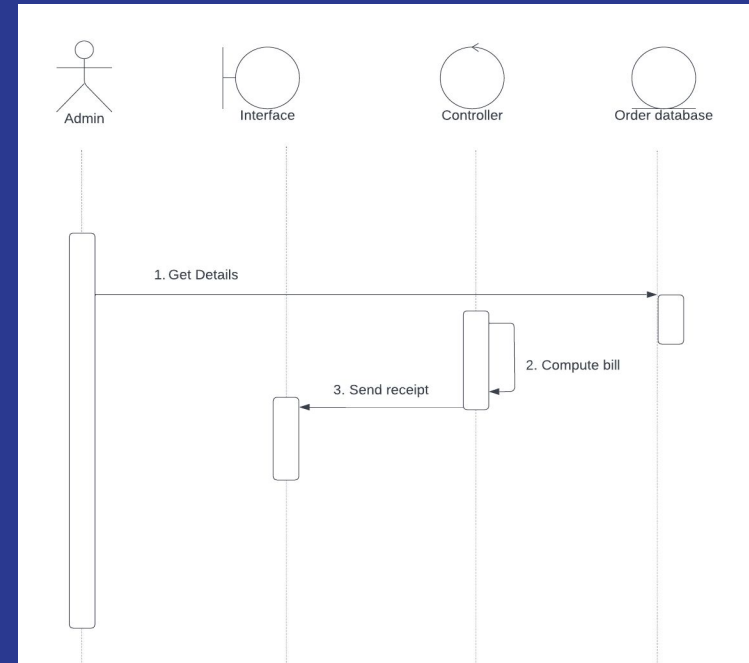
## Sequence diagram for view executive detail



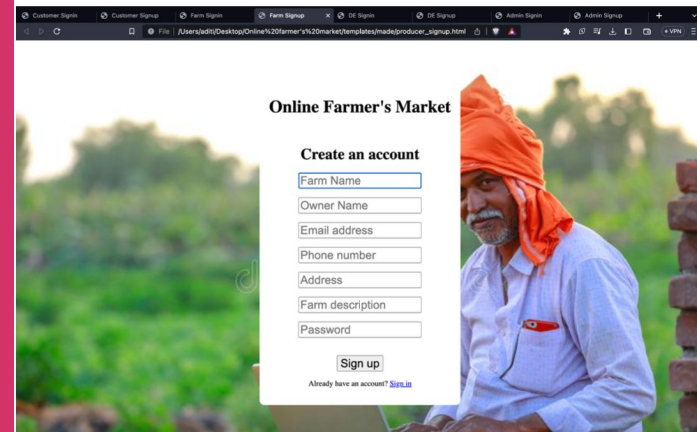
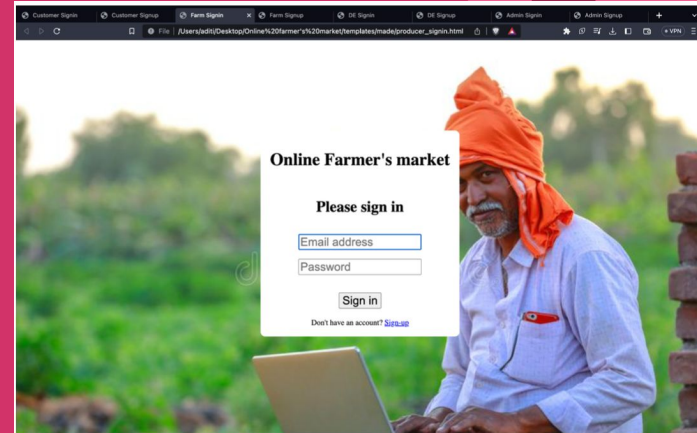
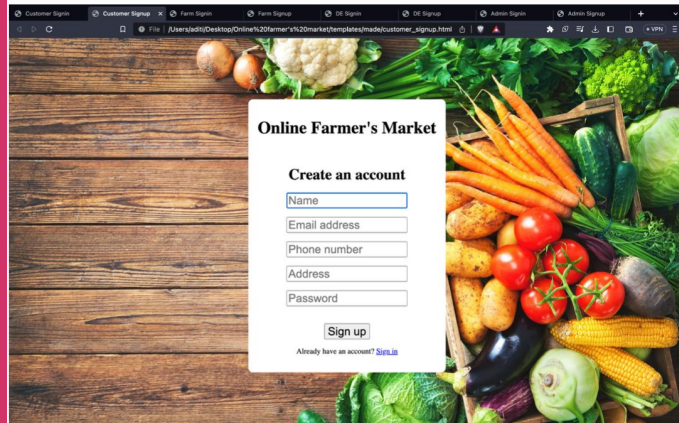
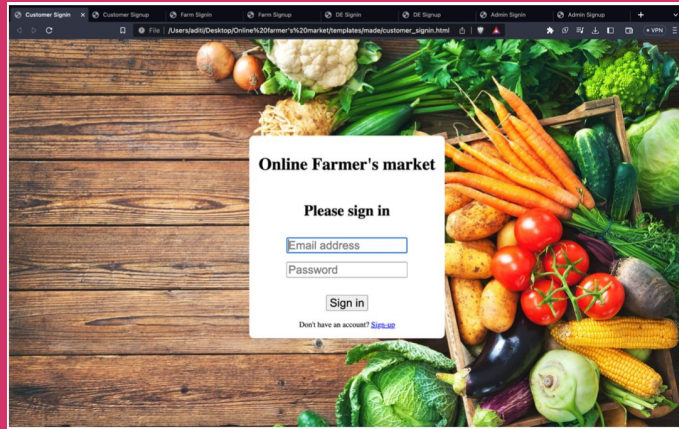
## Sequence diagram for update farm detail page



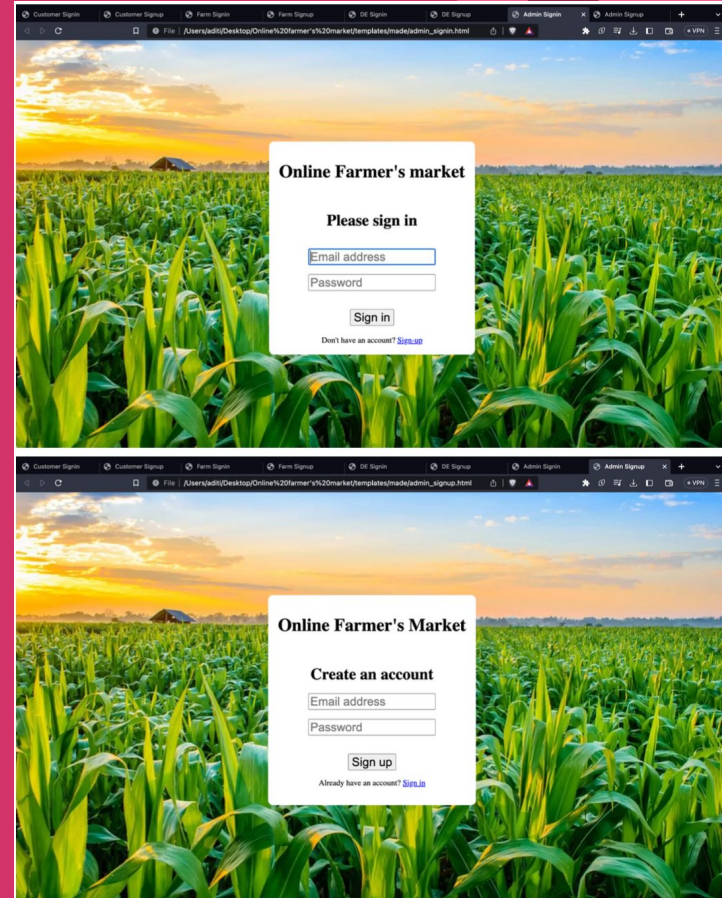
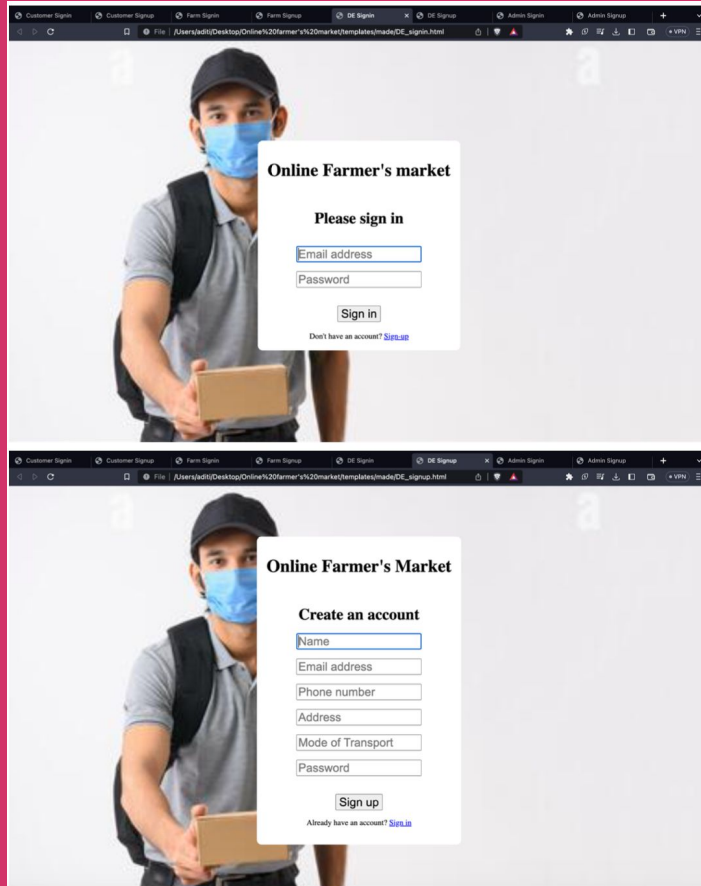
## Sequence diagram for generate receipt



# ScreenShots

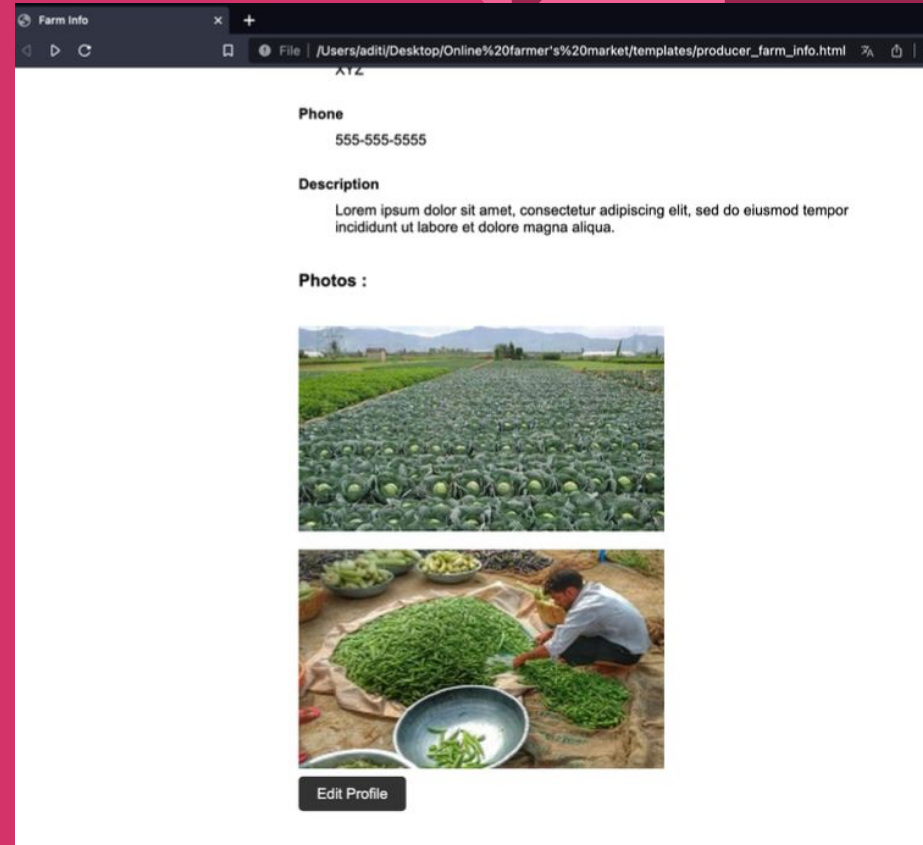
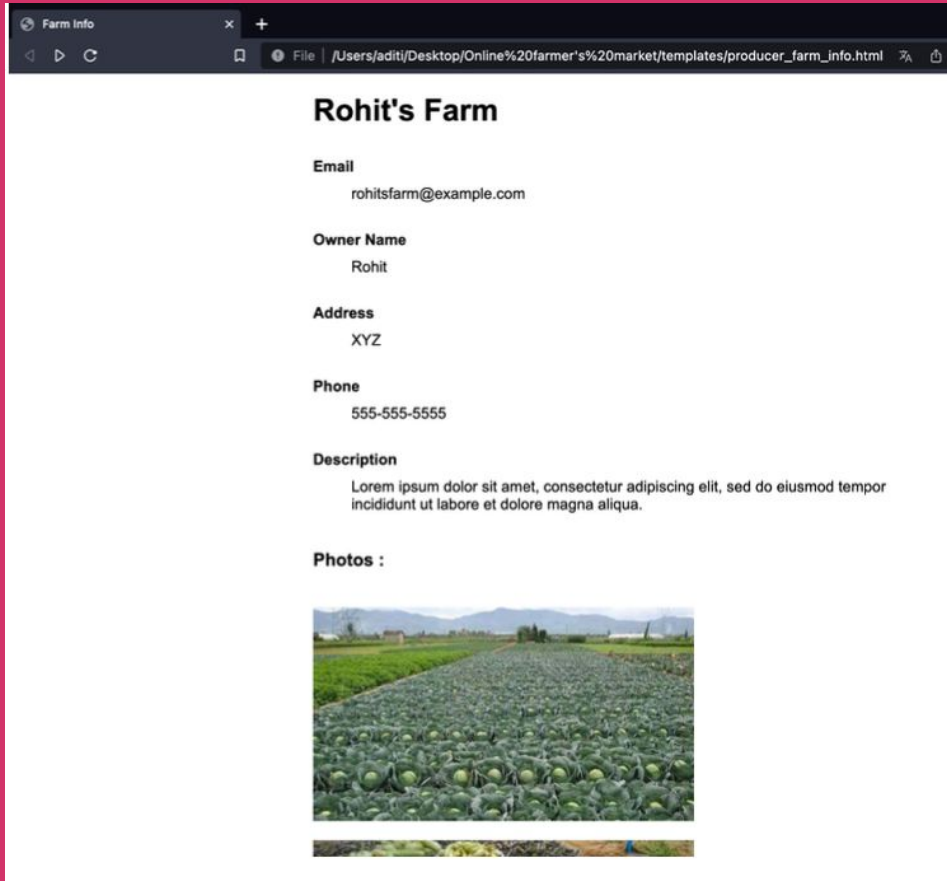


# ScreenShots

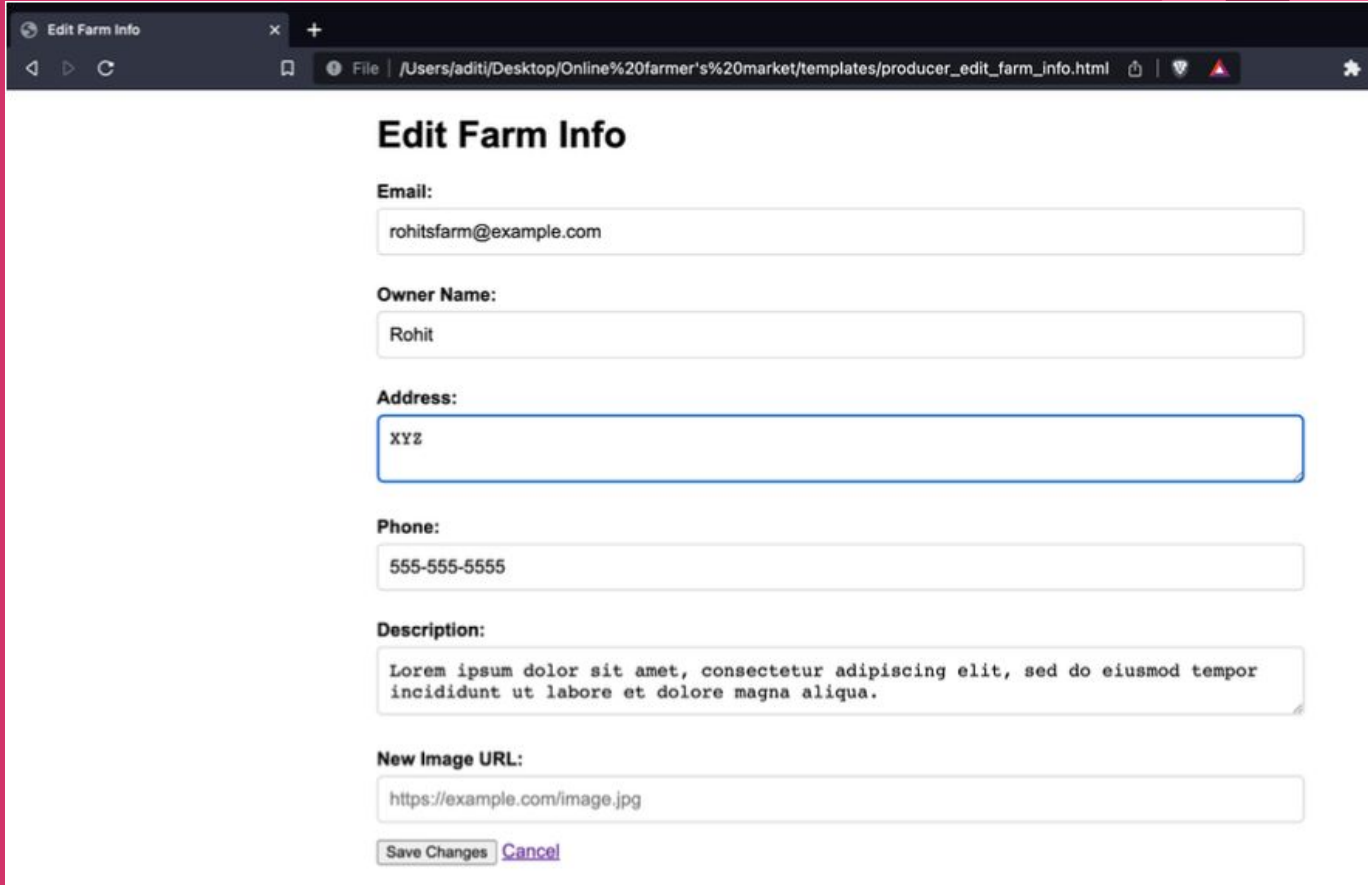




# ScreenShots(Farm Page)



# ScreenShots(Farm Page)



The screenshot shows a web browser window with the title 'Edit Farm Info'. The address bar displays the file path: `/Users/aditi/Desktop/Online%20farmer's%20market/templates/producer_edit_farm_info.html`. The form contains several input fields and a text area, all of which are filled with placeholder or example data. At the bottom, there are two buttons: 'Save Changes' and 'Cancel'.

**Edit Farm Info**

**Email:**

**Owner Name:**

**Address:**

**Phone:**

**Description:**

**New Image URL:**

[Cancel](#)



# ScreenShots(Products)

## Add Product

Name:

Price:


Quantity:

Tags:

Description:

Image :

## Edit Product



[Change Image](#)

Name:

Price:


Quantity:

Tags:


Description:

[Cancel](#)

## Farm Products



**Tomato**  
Rs. 10   10 kg  
*Tags: tomato, organic, local, vegetables*  
This is a description of the product. It can be multiple lines long.  
[Edit Product Details](#)

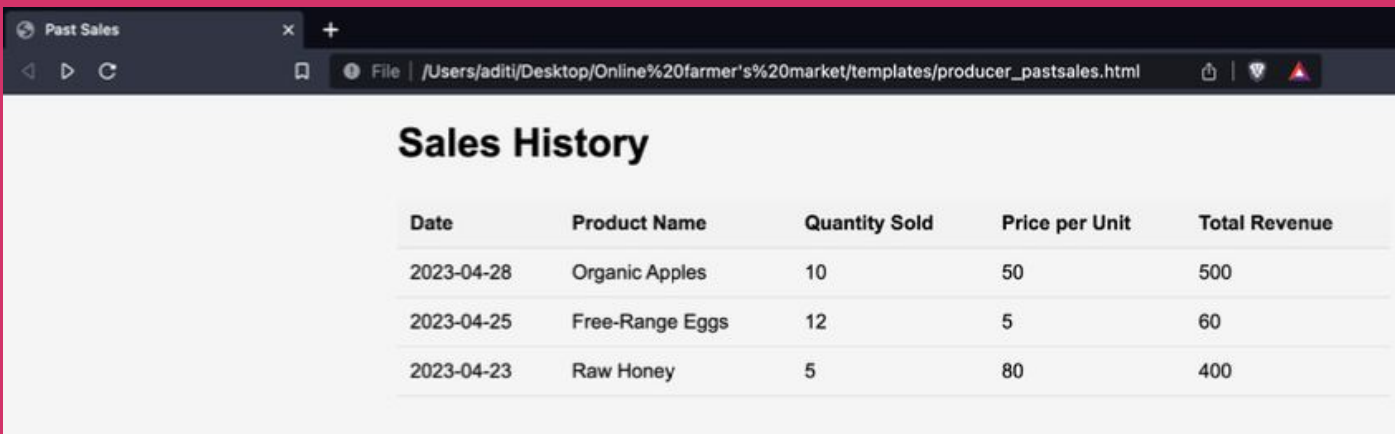


**Lady finger**  
Rs. 15   20 kg  
*Tags: lady finger, organic, local, vegetables*  
This is a description of the product. It can be multiple lines long.  
[Edit Product Details](#)

[Add a New Product](#)

# ScreenShots(History)

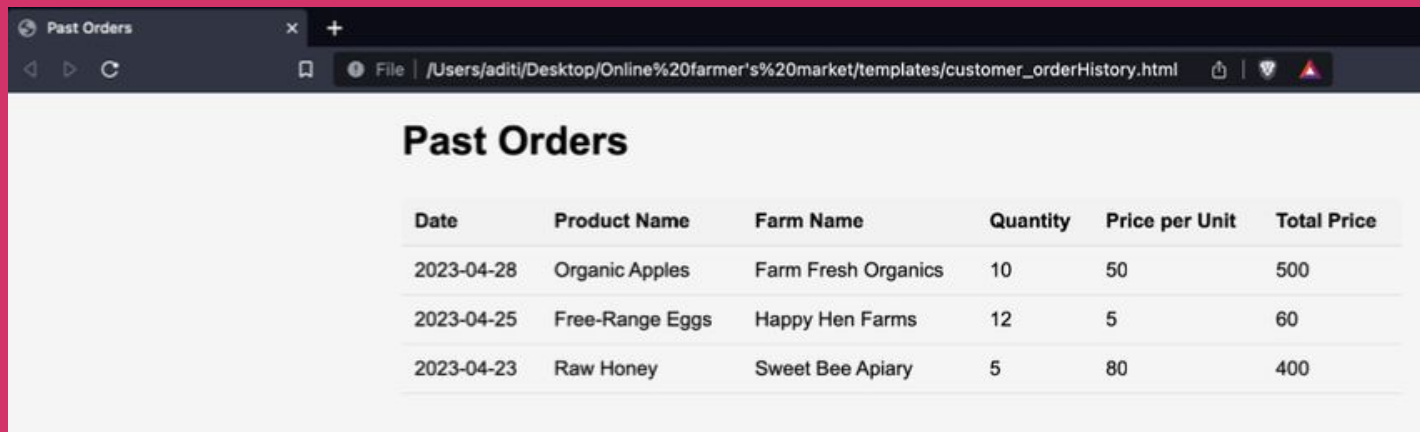
**Producer**



The screenshot shows a web browser window with the title 'Past Sales'. The address bar displays the file path: `/Users/aditi/Desktop/Online%20farmer's%20market/templates/producer_pastsales.html`. The main content area is titled 'Sales History' and contains a table with the following data:

Date	Product Name	Quantity Sold	Price per Unit	Total Revenue
2023-04-28	Organic Apples	10	50	500
2023-04-25	Free-Range Eggs	12	5	60
2023-04-23	Raw Honey	5	80	400

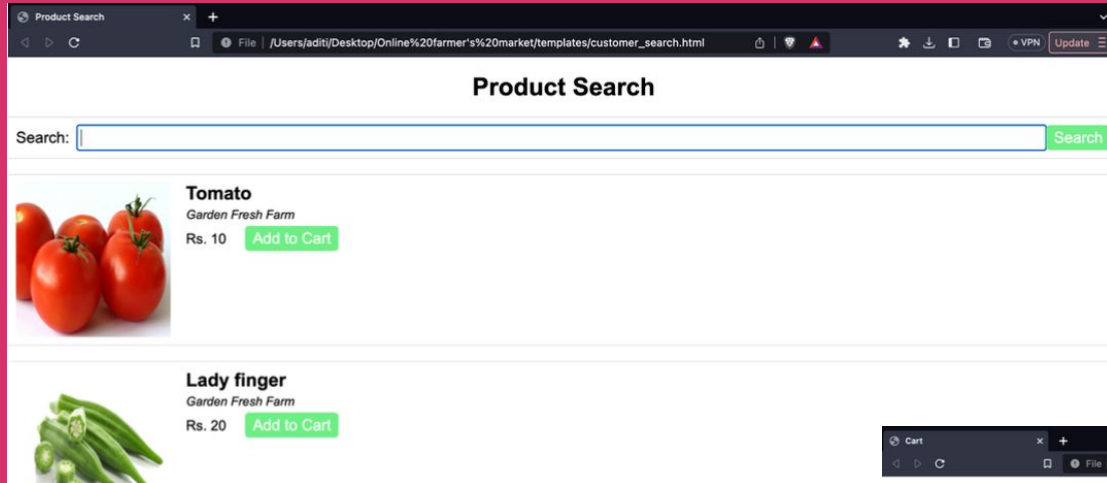
**Customer**



The screenshot shows a web browser window with the title 'Past Orders'. The address bar displays the file path: `/Users/aditi/Desktop/Online%20farmer's%20market/templates/customer_orderHistory.html`. The main content area is titled 'Past Orders' and contains a table with the following data:

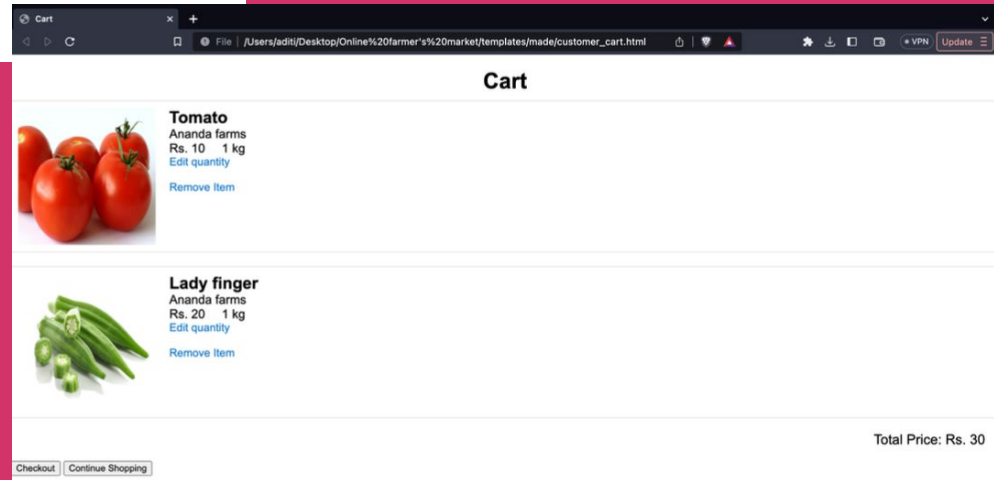
Date	Product Name	Farm Name	Quantity	Price per Unit	Total Price
2023-04-28	Organic Apples	Farm Fresh Organics	10	50	500
2023-04-25	Free-Range Eggs	Happy Hen Farms	12	5	60
2023-04-23	Raw Honey	Sweet Bee Apiary	5	80	400

# ScreenShots(Customer)



**Search  
Products**

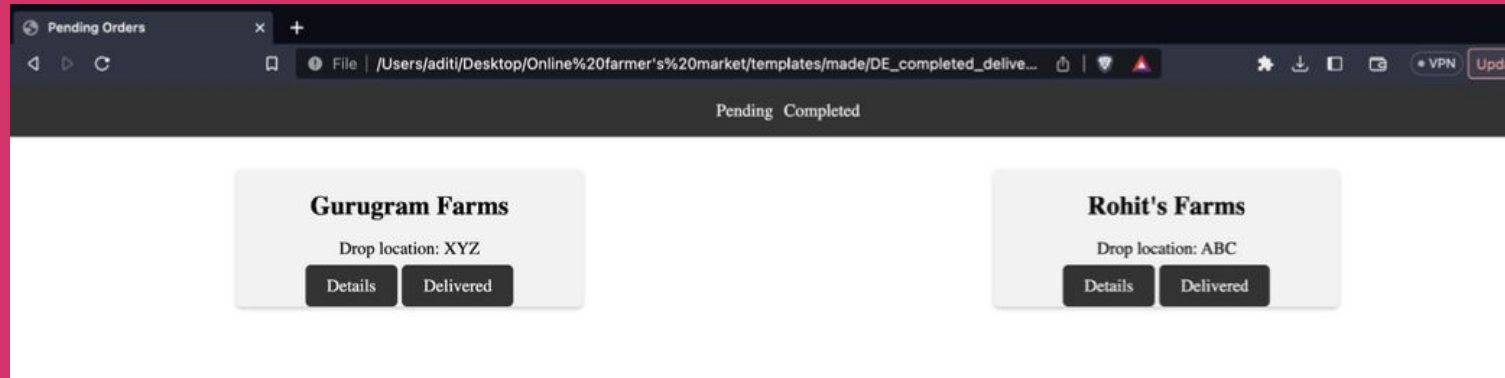
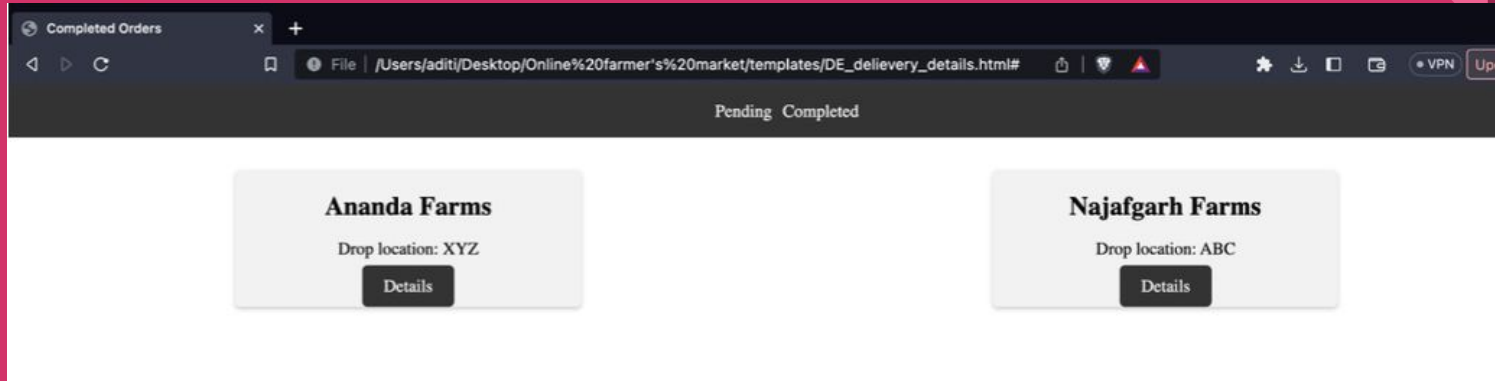
**Add to cart**



# ScreenShots(Delivery Executive)

**Completed  
orders**

**Pending  
orders**



# ScreenShots(DE order details)

Order Details

Pick up location: Ananda Farms

Drop location: XYZ

Farmer's name: Rahul

Phone number: 555-555-5555

Customer's name: Seema

Phone number: 555-555-5555

Total price : 1260

Payment: CoD

Items to be Delivered

Item	Quantity	Price
Apples	10	1200
Oranges	5	60

Pick up Location

Drop Location

# Databases

## Admin database

- adm\_id: Pri key, int type
- adm\_email
- adm\_password

## order database

- ord\_id : Pri key, int type
- cart\_id
- cid
- pid
- fid
- did
- payment\_id
- status
- order\_date
- delivery\_date
- quantity
- payment\_mode
- total\_price

## Customer database

- cid : Primary key, int type
- cemail
- cpassword
- cname
- caddress
- cphone

## product database

- pid : Primary key, int type
- fid
- pname
- pprice
- pquantity
- ptags
- pdescription

## Farm database

- fid : Pri key, int type
- femail
- fpassword
- fname
- ownername
- faddress
- fphone
- fdescription

## cart database

- cart\_id : Primary key, int type
- cid
- pid
- fid
- quantity
- total\_price
- status

## DE database

- did : Pri key, int type
- demail
- dpassword
- dname
- daddress
- dphone

# Function Point Analysis

Function Type	Estimated count	Weight Factor			Function Type Total
		Simple	Average	Complex	
EI	27	3	4	6	108
EO	18	4	5	7	90
EQ	20	3	4	6	80
ILF	12	7	10	15	120
EIF	3	5	7	10	21

1. External Input (EI)
2. External Output (EO)
3. External Inquiries (EQ)
4. Internal Logical File (ILF)
5. External Interface File (EIF)

Total Unadjusted Function Point Count =

$108+90+80+120+21 = 419$

## Calculating Function Point Count

$AFP = UFP * CAF$

$AFP = 419 * 1.1$

$AFP = 460.9$

**Thank you**