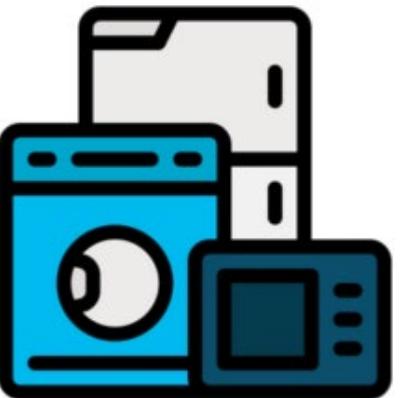




INDEV



India's Newest Direct Ecommerce Vendor

Project Profile

Header	Text
Project Title	INDEV
Project Definition	Ecommerce Website
Project Type	Web Based Application
Developed By	Jaspreet Singh Raval Viraj Shaikh Sahil
Frontend Tool	Microsoft Visual Studio Code 2024
Backend Tool	Python Django Localhost Server
Database	SQLite

Identification of Problem and Proposing a Solution

Problems Within Existing System

- 1. Limited Reach** – Many platforms struggle to serve Tier 2 & Tier 3 cities, leaving a large customer base underserved.
- 2. Time-Consuming Process** – Lengthy product searches, checkout delays, and slow deliveries make shopping inefficient.
- 3. High Manpower Requirements** – Traditional commerce models require extensive workforce management for sellers, logistics, and customer support.
- 4. Increased Product Prices** – Middlemen and commissions drive up costs, making products more expensive for consumers.
- 5. Resource-Intensive Operations** – Managing multiple sellers, warehouses, and logistics networks leads to higher operational costs.

Need For New System

- 1. Wider Reach** – A direct vendor model ensures seamless access to Tier 2 & Tier 3 cities, expanding market coverage.
- 2. Faster Shopping & Delivery** – Eliminating middlemen streamlines processes, reducing delays in order fulfillment.
- 3. Reduced Manpower Costs** – Automating order processing, logistics, and customer support lowers operational workforce dependency.
- 4. Lower Product Prices** – Direct sourcing from manufacturers minimizes extra charges, making products more affordable.
- 5. Efficient Resource Utilization** – Optimized inventory and logistics management cut down unnecessary resource consumption.

Proposed New System - INDEV

INDEV is a **multi-vendor, multi-buyer eCommerce platform** that connects sellers directly with consumers, eliminating middlemen to ensure affordable pricing, buyer & seller authenticity.

Key Features of the Proposed System :-

- 1. Multi-Vendor System** – Allows multiple vendors to list and sell products directly, ensuring authenticity and competitive pricing.
- 2. Multi-Buyer System** – Supports multiple customers simultaneously with a seamless shopping experience.
- 3. Product Listing** – Vendors can easily upload product details, images, and pricing.
- 4. Placing Orders** – Customers can browse, add items to the cart, and place orders for one or multiple products simultaneously.
- 5. Delivery Tracking System** – Real-time shipment tracking keeps customers updated on order status.

INDEV – INDIA'S NEWEST DIRECT ECOMMERCE VENDOR

- **INDEV** – INDEV is an Acronym
- **I – India's** : Focused on transforming India's eCommerce landscape.
- **N – Newest** : A fresh, innovative platform redefining online shopping.
- **D – Direct** : Eliminates middlemen for better pricing and authenticity.
- **E – E-commerce** : A seamless digital marketplace for diverse products.
- **V – Vendor** : Connecting consumers directly to trusted brands.

□ Introduction to INDEV

❖ What is INDEV?

- ✓ A direct eCommerce platform offering a seamless shopping experience.
- ✓ Eliminates middlemen to ensure better pricing and transparency.

❖ Why INDEV?

- ✓ Because the name easily conveys the meaning and its purpose.
- ✓ It has a flare of patriotism to it.

Pre-Development Requisites and Post-Development Requirements

Pre-Development Requisites

HARDWARE

- 1. Device :** Desktop, Laptop
- 2. Processor :** 2.5 GHZ +
- 3. RAM :** At least 8GB RAM (16GB recommended for better performance)
- 4. Storage :** 10 GB of free space (for media files)

SOFTWARE

- 1. Operating System :** Windows, macOS, Linux
- 2. Browser Support :** Chrome, Edge , etc (latest versions)
- 3. Development Environment :** Python and its modules
 - 1) Pip**
 - 2) Virtualenv**
 - 3) Django**
 - 4) Pillow**
- 4. Software :** Visual Studio Code (latest version)

Post-Dev Hardware Requirements

CLIENT SIDE

- 1. Device :** Desktop, Laptop
- 2. Processor :** 2.0 GHZ +
- 3. RAM :** At least 4GB RAM (8GB recommended for better performance)
- 4. Storage :** 1 GB of free space (for browser cache)

SERVER SIDE

- 1. Device :** Desktop, Laptop
- 2. Processor :** 2.5 GHZ +
- 3. RAM :** At least 8GB RAM (16GB recommended for better performance)
- 4. Storage :** 10 GB of free space (for media files)

Post-Dev Software Requirements

CLIENT SIDE

- 1. Operating System :** Windows, macOS, Linux
- 2. Browser Support :** Chrome, Edge , etc (latest versions)

SERVER SIDE

- 1. Operating System :** Windows, macOS, Linux
- 2. Browser Support :** Chrome, Edge , etc (latest versions)
- 3. Server Support :** Python Django Localhost
- 4. Database Support :** Python Django Sqlite

The Three Category of Users And Their Roles

Admin Category and Roles

ROLE	ADMIN
1.	Login
2.	Superuser
3.	Add New Category
4.	Update Order Status

Buyer Category and Roles

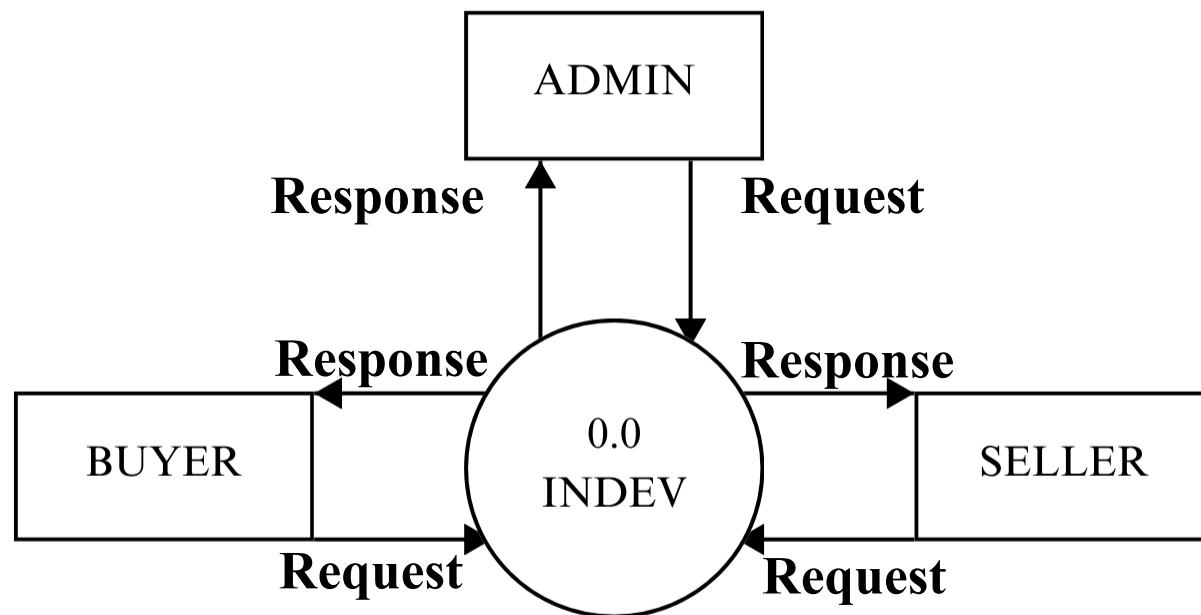
ROLE	BUYER
1.	Register/Login
2.	View All Products, Shops and Categories View Their Cart and Orders
3.	Add Remove Products in Cart Increase Decrease Quantity in Cart
4.	Create Order Cancel Placed Order and Delete Delivered Order

Seller Category and Roles

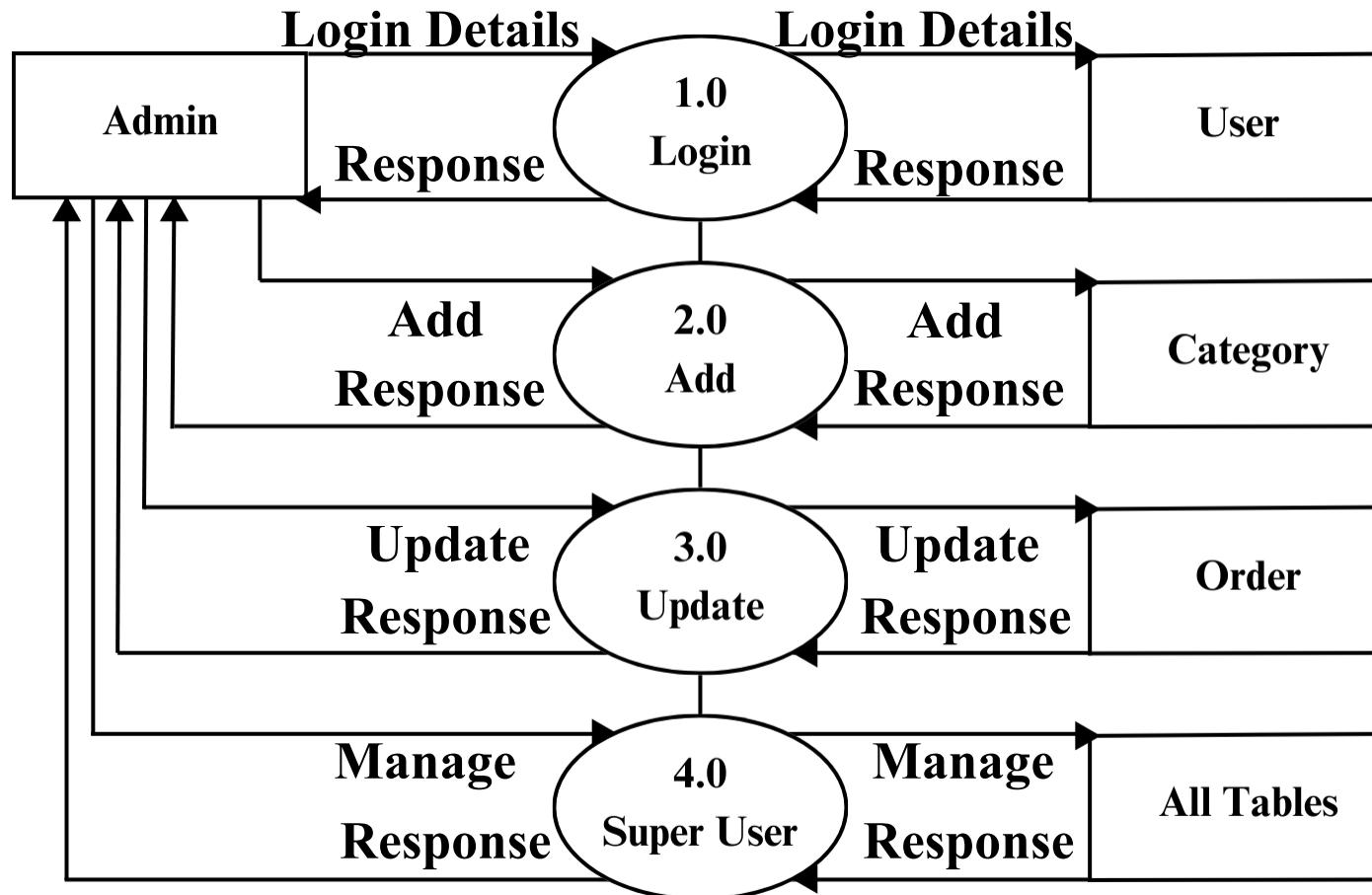
ROLE	SELLER
1.	Register/Login
2.	View Their Products, Categories and Orders
3.	Add Product, Update Stock and Delete Product
4.	Accept or Reject Order

Data Flow Diagram

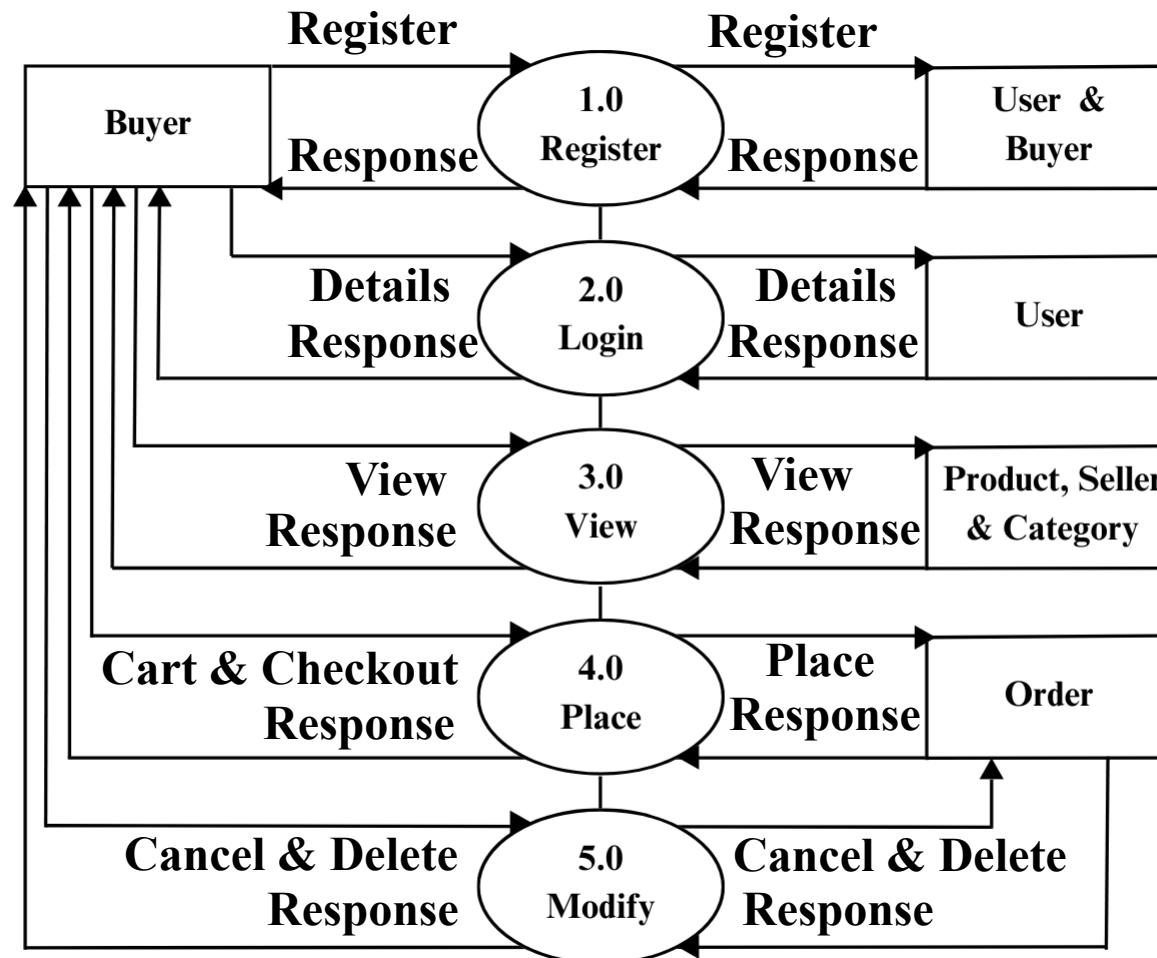
Context Level DFD



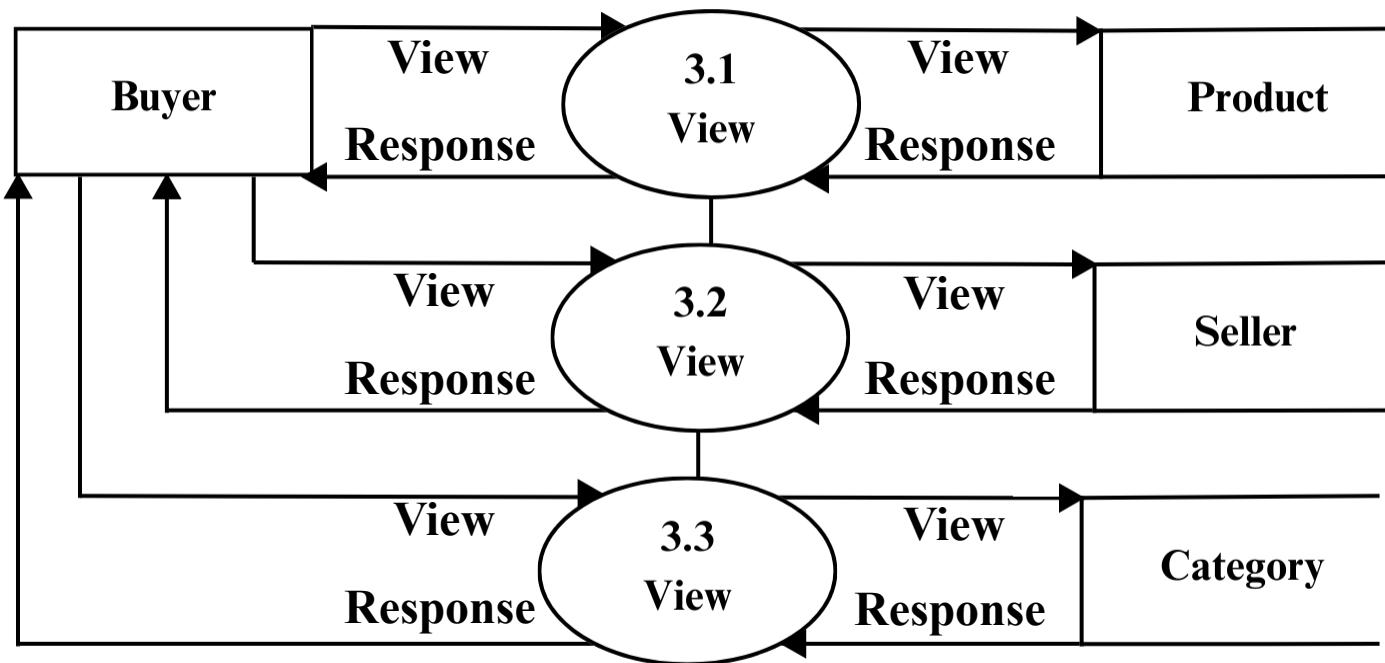
Admin Level DFD



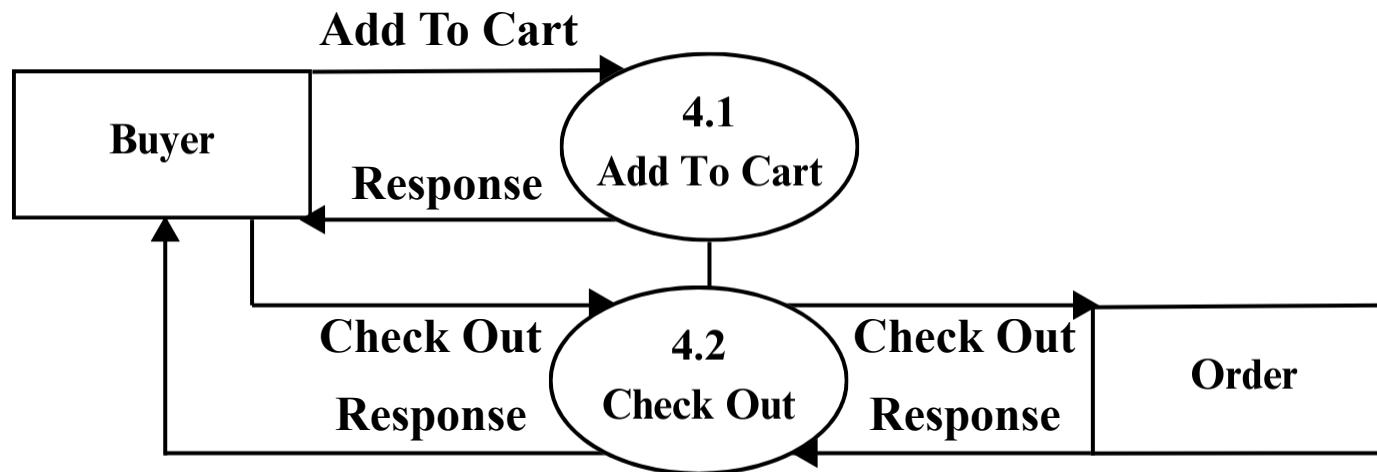
Buyer Level DFD



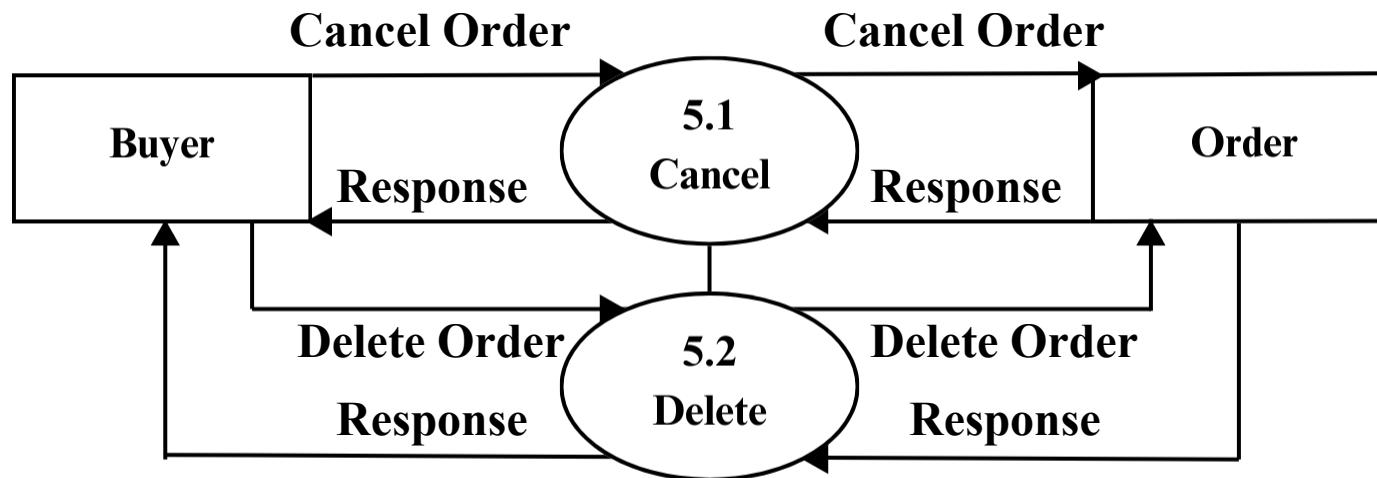
Buyer Level 3.1 DFD



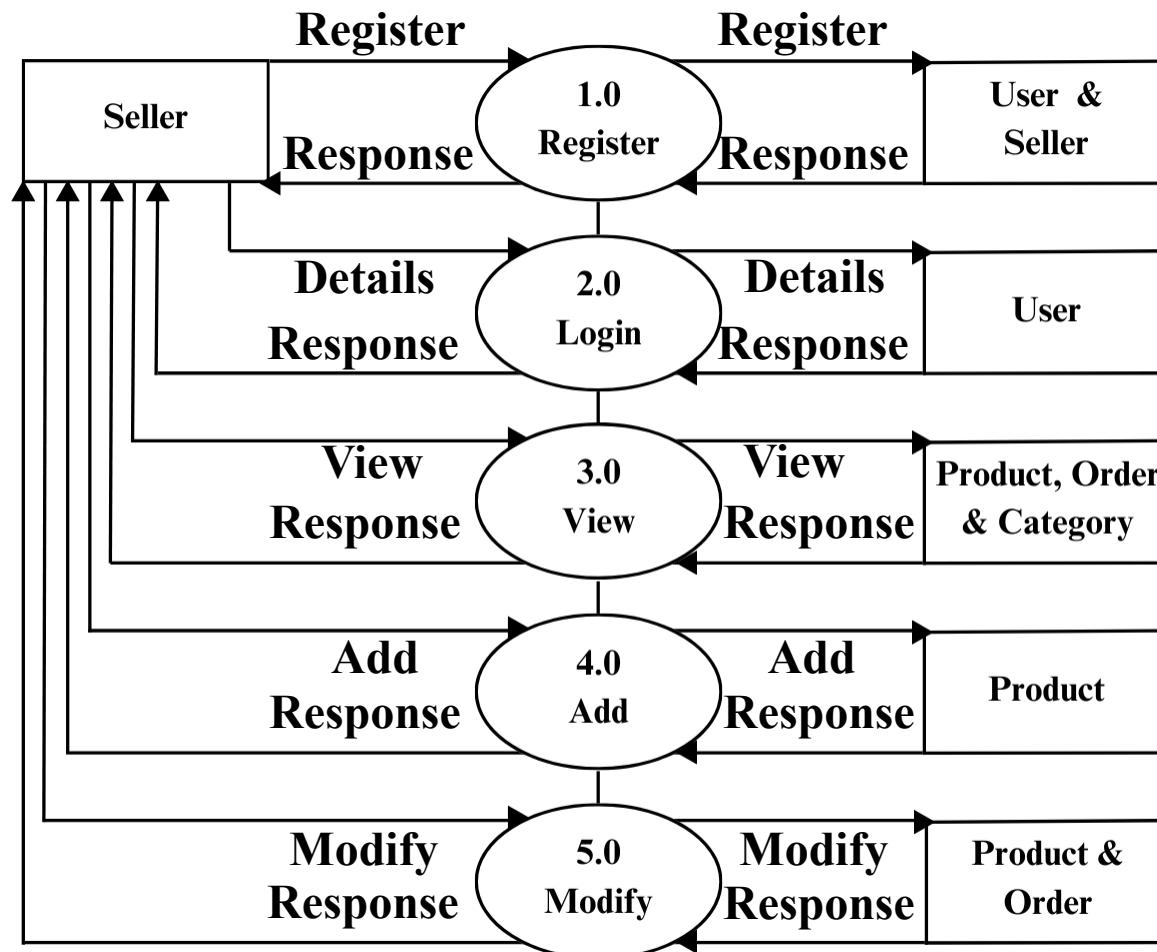
Buyer Level 4.1 DFD



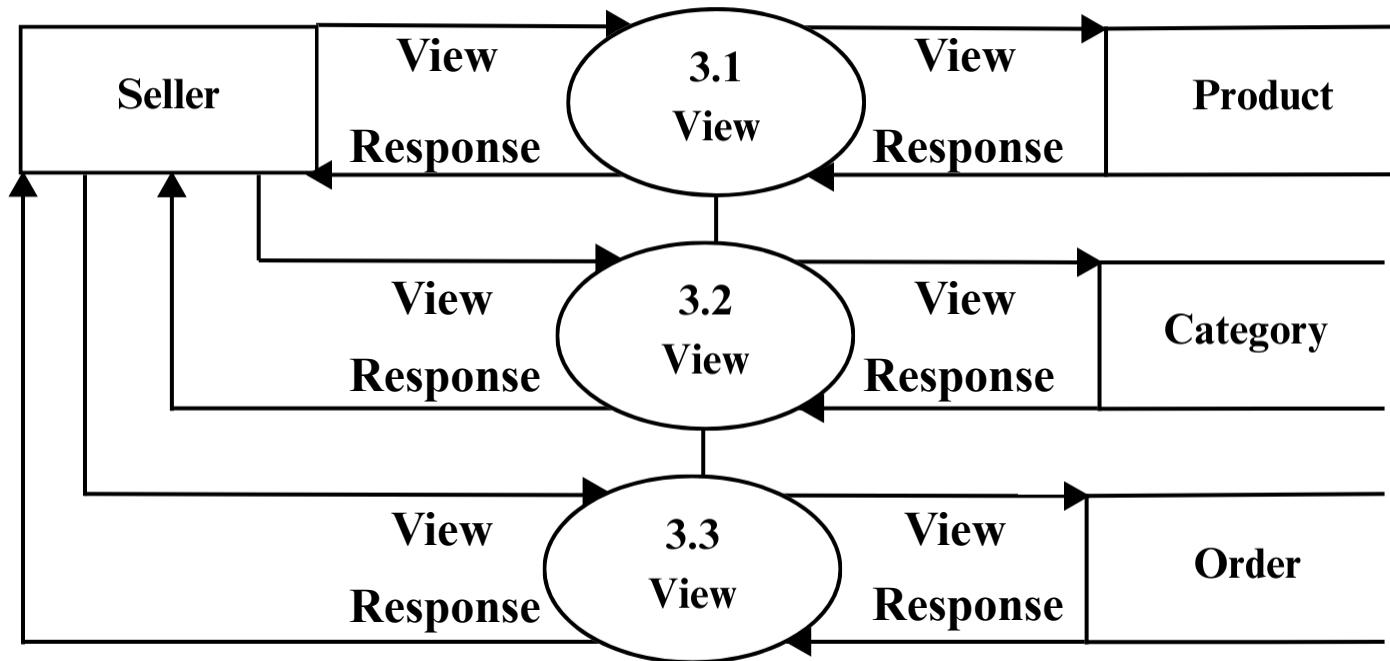
Buyer Level 5.1 DFD



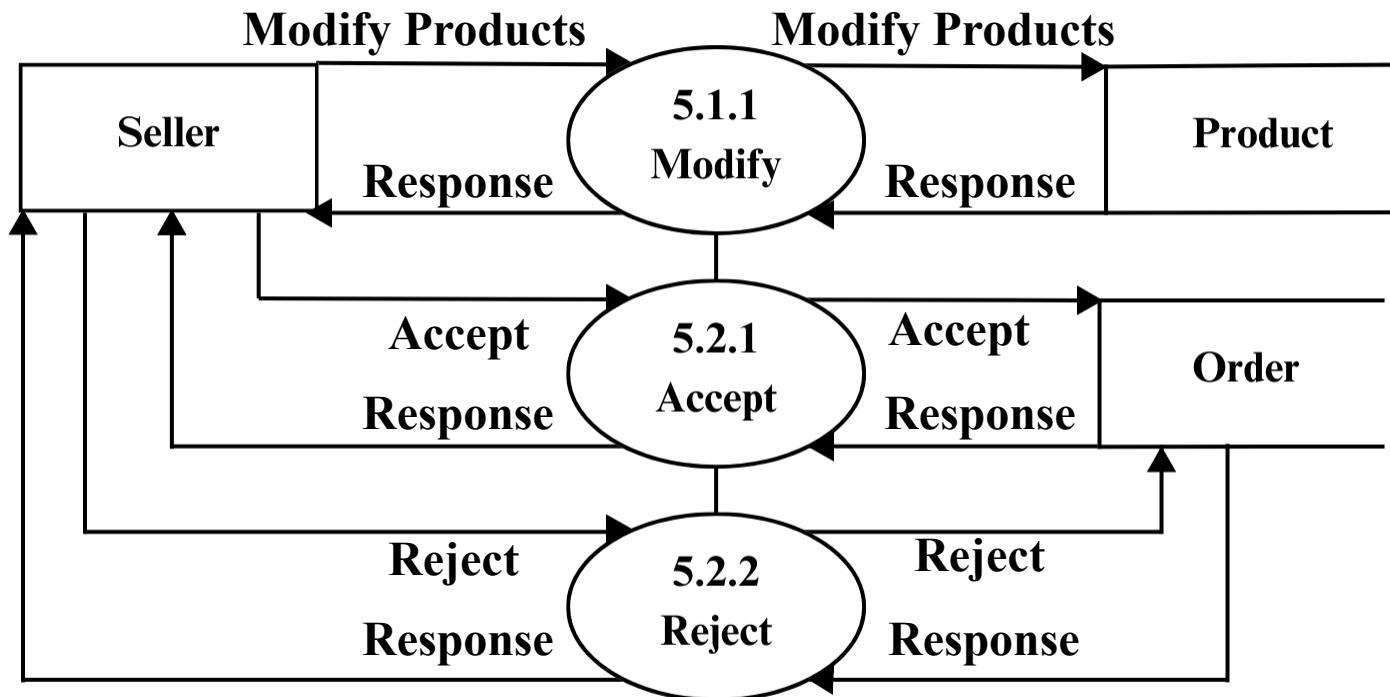
Seller Level DFD



Seller Level 3.1 DFD

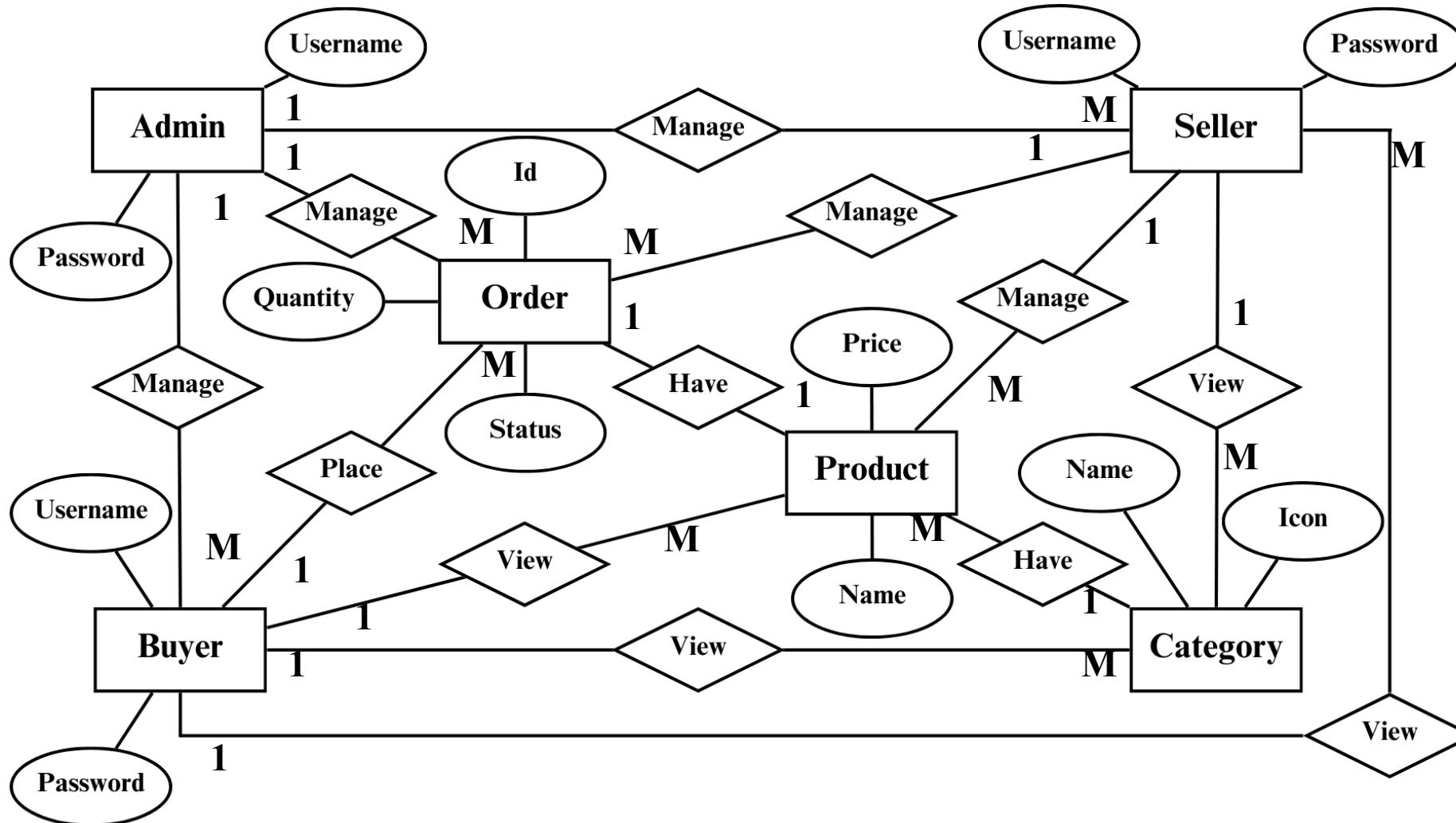


Seller Level 5.1 DFD



Entity Relationship Diagram

Entity Relationship Diagram



Data Dictionary

Default Users Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Username	Character Field(150)	Unique , Not Null	admin
Password	Character Field(128)	Not Null , PBKDF2 with SHA-256	Hashed('S@hil0209')
First Name	Character Field(150)	Not Null , Default=''	ADMIN
Staff Status	Boolean Field	Not Null , Default=False	True

Buyer Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
New_User	Foreign Key(Users)	Unique , Not Null	Users(2)
First_Name	Character Field(50)	Not Null	Sahil
Last_Name	Character Field(50)	Not Null	Shaikh
Email	Email Field(50)	Not Null	sahil@gmail.com
Date	Date Field	Not Null	02-09-2003
Gender	Character Field(10)	Not Null	Male
Aadhaar	Character Field(12)	Not Null	111122223333
Contact	Character Field(10)	Not Null	9999988888
Address	Text Field(400)	Not Null	Mehsana

Seller Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
New_User	Foreign Key(Users)	Unique , Not Null	Users(3)
Seller_Name	Character Field(50)	Not Null	Samsung
Seller_Description	Character Field(50)	Not Null	We Sell Mobiles
Logo	Image Field	Upload To , Not Null	'shops/logo/1.png'
Banner	Image Field	Upload To , Not Null	'shops/banner/1.png'
GSTIN	Character Field(15)	Not Null	111112222233333
Email	Email Field(100)	Not Null	sahil@gmail.com
Contact	Character Field(10)	Not Null	9999988888
Address	Text Field(400)	Not Null	Mehsana

Category Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Category_Name	Character Field(50)	Not Null	Mobiles
Category_Description	Character Field(50)	Not Null	For Example Phones
Category_Icon	Image Field	Upload To , Not Null	'cat/icon/1.png'
Category_Banner	Image Field	Upload To , Not Null	'cat/banner/1.png'

Product Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Seller_Name	Foreign Key(Seller)	Not Null	Seller(1)
Product_Name	Character Field(50)	Not Null	Jio Phone
Product_Desc	Character Field(50)	Not Null	It is a Phone
Product_Price	Integer Field	Not Null	1000
Product_Img	Image Field	Upload To , Not Null	‘Products/1.png’
Product_Status	Character Field(50)	Choices , Default , Not Null	In Stock
Category_Name	Foreign Key(Category)	Not Null	Category(1)

Order Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Buyer_ID	Foreign Key(Buyer)	Not Null	Buyer(1)
Seller_ID	Foreign Key(Seller)	Not Null	Seller(1)
Product_ID	Foreign Key(Product)	Not Null	Product(1)
Product_Quantity	Integer Field	Not Null	5
Product_Total	Integer Field	Not Null	5
Order_Status	Character Field(50)	Choices , Default , Not Null	Order Placed

Contact Request Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Email	Email Field(50)	Not Null	sahil@gmail.com
Purpose	Character Field(500)	Not Null	Appointment

Feedback Model

Attributes	Data Type	Constraints	For Example
ID	Integer Auto Field	Primary Key , Auto Increment	1
Email	Email Field(50)	Not Null	sahil@gmail.com
Feedback	Character Field(500)	Not Null	Good Work

Technologies Used From Django Framework

Technologies Used

- 1. Template Management and Template Inheritance** – Django framework provides in itself the feature of template management and also provides support for inheritance of one template into another.
- 2. Static Files and Media Files** – Django framework also provides its efficient method of managing static files and media files by creating root directories.
- 3. Django Localhost Server** – Django framework provides its own local server for testing and hosting the website for development and debugging.
- 4. Default User Model** – Django framework provides a default user model which used to store data of all type of users.
- 5. Django Authentication** – Django framework provides predefined function of Authenticate, Login and Logout which can be used to perform authentication of a user , it's login and logout activities.

Technologies Used – Continued

6. Dynamic Url Routing – Django framework provides support to create and use dynamic urls for routing to webpages.

7. CSRF Token – CSRF stands for Cross Site Request Forgery , Django framework in all its forms uses a csrf token to ensure the integrity of the data passing via forms.

8. Django ORM – ORM stands for Object-Relational Mapping, Django framework uses object relational mapping to map each object member of a class as a field in the database. It provides easy, fast and efficient controls. We can fetch records faster.

9. Django Admin Interface – Django framework provides a default admin interface which can be used to create admins and super-admins. Admins are those with staff privileges and super-admins have all privileges of all tables.

10. Easy Integration with Other Python Modules – Django itself being a python module, it allows seamless integration with other python modules such as pillow and csv for better functionality in the overall projects.

Guest Side Input Design

About Us



Jaspreet Singh

Role : Frontend and Backend

[View on Github](#)

Shaikh Sahil

Role : Backend and Database

[View on Github](#)

Raval Viraj

Role : Database and Frontend

[View on Github](#)

Contact Us

Email :

Purpose :

[Submit](#)

Feedback

Email :

Feedback :

[Submit](#)

Buyer Login

Username:

Password:

Login

Seller Login

Username:

Password:

Login

Buyer Registration

Create Username:

Create Password:

Confirm Password:

First Name:

Last Name:

Date of Birth:

 dd - mm - yyyy 

Gender:

 Male 

Aadhaar Number:

Email:

Contact:

Address:

Register

Seller Registration

Create Username:

Create Password:

Confirm Password:

Seller Name:

Seller Description:

Seller Logo:

No file chosen

Seller Banner:

No file chosen

GSTIN Number:

Email:

Contact:

Address:

Register

Buyer Side Input Design

All Products



Samsung Smart Fridge

Price : Rs. 100000

[View Product](#)[Add To Cart](#)

Tomatoes 10 kg

Price : Rs. 500

[View Product](#)[Add To Cart](#)

Rolex Silver Watch

Price : Rs. 51000

[View Product](#)[Add To Cart](#)

Gold Coin

Price : Rs. 210000

[View Product](#)[Add To Cart](#)

Load Product



Samsung Galaxy S24 Ultra

[Add To Cart](#)

Product Details

Product Description : It is a Smartphone

Product Price : Rs. 125000

Product Category : Mobiles

Seller Details

Sold By : seller_samsung

Thanks for Visiting Us

All Shops



Samsung

We Sell Consumer Electronics and Mobiles

[View Shop](#)

Reliance

We Sell Mobiles and Groceries

[View Shop](#)

Samsung



Samsung

We Sell Consumer Electronics and Mobiles

Our Details

GSTIN Number: 9999988888777777

Contact Us :

Email : samsung@gmail.com

Phone Number : 9999988888

Address : South Korea

Thanks for Visiting Us

Our Products



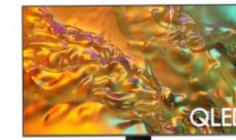
Samsung Smart Fridge

Price : Rs. 100000

[View Product](#)[Add To Cart](#)

Samsung Washing Machine

Price : Rs. 95000

[View Product](#)[Add To Cart](#)

Samsung Smart TV

Price : Rs. 105000

[View Product](#)[Add To Cart](#)

Samsung Roomba

Price : Rs. 90000

[View Product](#)[Add To Cart](#)

All Categories



Mobiles

For Example Smartphone, Feature Phone , Telephones

[View Category](#)

Groceries

For Example Soaps , Shampoos , Fruits

[View Category](#)

MOBILES



Mobiles

For Example Smartphone, Feature Phone ,
Telephones

Our Products



Samsung Galaxy S24 Ultra

Price : Rs. 125000

[View Product](#)[Add To Cart](#)

Samsung Galaxy Z Flip

Price : Rs. 120000

[View Product](#)[Add To Cart](#)

Samsung Galaxy Z Fold

Price : Rs. 130000

[View Product](#)[Add To Cart](#)

Samsung Galaxy Tab

Price : Rs. 115000

[View Product](#)[Add To Cart](#)

My Cart

Sno.	Product Image	Product	Price	Quantity	Total
1		Samsung Smart TV	105000	1	105000
2		Samsung Galaxy S24 Ultra	125000	2	250000
Grand Total		355000		Check Out	

My Orders

Order Number : 75

Buyer Details

Username : buyer_sahil

Name : Sahil Shaikh

Email : hshaikh1345@gmail.com

Contact : 9999955555

Address : 1-7-51 Maniyar Vado ,
Kapasiya Bazar , Sidhpuri Gali Road

Order Details

Name : Samsung Smart TV

Price : 105000

Quantity : 1

Total : 105000

Status : Ordered Placed

[Cancel](#)

Order Number : 76

Buyer Details

Username : buyer_sahil

Name : Sahil Shaikh

Email : hshaikh1345@gmail.com

Contact : 9999955555

Address : 1-7-51 Maniyar Vado ,
Kapasiya Bazar , Sidhpuri Gali Road

Order Details

Name : Samsung Galaxy S24 Ultra

Price : 125000

Quantity : 2

Total : 250000

Status : Delivered

[Delete](#)

Seller Side Input Design

Listed Products



Samsung Smart Fridge

Price : Rs. 100000

[View Product](#)

[Modify Product](#)

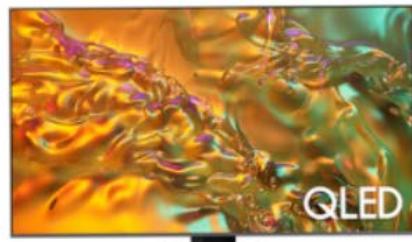


Samsung Washing Machine

Price : Rs. 95000

[View Product](#)

[Modify Product](#)



Samsung Smart TV

Price : Rs. 105000

[View Product](#)

[Modify Product](#)



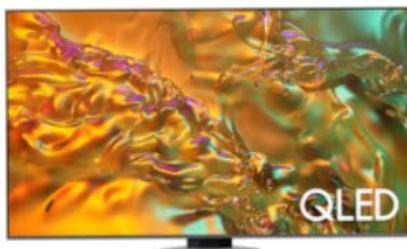
Samsung Roomba

Price : Rs. 90000

[View Product](#)

[Modify Product](#)

Load Product



Samsung Smart TV

[Modify Product](#)

Product Details

Product Description : It is a Smart TV

Product Price : Rs. 105000

Product Category : Consumer_Electronics

Seller Details

Sold By : seller_samsung

Thanks for Visiting Us

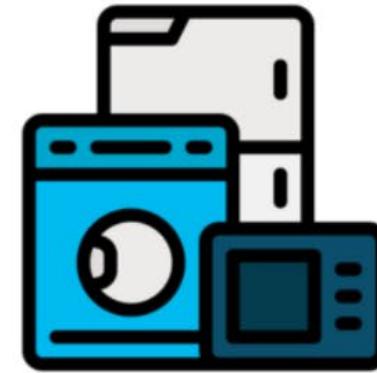
My Categories



Mobiles

For Example Smartphone, Feature Phone , Telephones

[View Shop](#)



Consumer_Electronics

For Example TV , Fridge , Washing Machine

[View Shop](#)

MOBILES



Mobiles

For Example Smartphone, Feature Phone ,
Telephones

Our Products

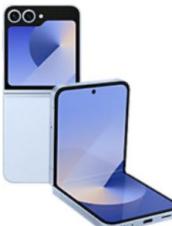


Samsung Galaxy S24 Ultra

Price : Rs. 125000

[View Product](#)

[Modify Product](#)



Samsung Galaxy Z Flip

Price : Rs. 120000

[View Product](#)

[Modify Product](#)



Samsung Galaxy Z Fold

Price : Rs. 130000

[View Product](#)

[Modify Product](#)



Samsung Galaxy Tab

Price : Rs. 115000

[View Product](#)

[Modify Product](#)

Product Registration

Seller Name:

Product Name:

Product Description:

Price:

Product Image: No file chosen

Category:

Register

Manage Products

Sno.	Product Image	Product	Status	Set Status	Delete Product
1		Samsung Smart Fridge	In Stock	<button>Out of Stock</button>	<button>Delete</button>
2		Samsung Washing Machine	Out of Stock	<button>In Stock</button>	<button>Delete</button>

All Orders

Order Number : 75

Buyer Details

Username : buyer_sahil

Name : Sahil Shaikh

Email : hshaikh1345@gmail.com

Contact : 9999955555

Address : 1-7-51 Maniyar Vado ,
Kapasiya Bazar , Sidhpuri Gali Road

Order Details

Name : Samsung Smart TV

Price : 105000

Quantity : 1

Total : 105000

Status : Ordered Placed

Accept

Reject

Order Number : 76

Buyer Details

Username : buyer_sahil

Name : Sahil Shaikh

Email : hshaikh1345@gmail.com

Contact : 9999955555

Address : 1-7-51 Maniyar Vado ,
Kapasiya Bazar , Sidhpuri Gali Road

Order Details

Name : Samsung Galaxy S24 Ultra

Price : 125000

Quantity : 2

Total : 250000

Status : Delivered

Delete

Reports



All Out of Stock Product Report

[Generate and Download Report In CSV Format](#)

All Accepted Orders Report

[Generate and Download Report In CSV Format](#)

Admin Side Input Design

Django administration

Username:

Password:

Log in

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	 Add	 Change
Users	 Add	 Change

ECOMMERCE_WEBSITE_APPLICATION

Buyers	 Add	 Change
Categories	 Add	 Change
Contact_requests	 Add	 Change
Feedbacks	 Add	 Change
Orders	 Add	 Change
Products	 Add	 Change
Sellers	 Add	 Change

Recent actions

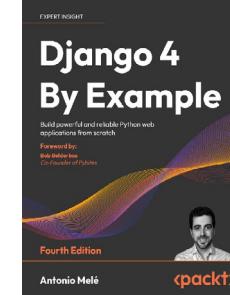
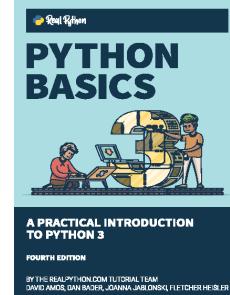
My actions

- [Order Id : 76
Order](#)
- [Rolex Diamond Watch
Product](#)
- [Premium Blue Jacket
Product](#)
- [Traditional Kurta
Product](#)
- [Golden Cufflinks
Product](#)
- [Rajshahi Dinning Set
Product](#)
- [Non Stick Tawa
Product](#)
- [Electric Toaster
Product](#)
- [Heavy Necklace
Product](#)
- [Analog Watch
Product](#)

Future Enhancements

- 1. Payment Gateways** – Modern payment gateway systems such as billdesk and razorpay can be added to provide support for online transactions.
- 2. Add Sale Function** – Other functionalities such as creating a sale can be used to increase data traffic on the website.
- 3. Increase Filters** – The number of filters can be increased in the near future.
- 4. Review and Rating System** – A review system can be introduced to leave review on the purchased product by the buyer.
- 5. Profile Management** – Profile management will allow users(buyer & sellers) to manage their own profile records and details.
- 6. Increase Responsiveness** – The overall responsiveness of the website can be increased by using better animatronics and reactive css.
- 7. More Reports** – We can integrate other python modules like Matplotlib to make better infographical and statistical reports

Bibliography

- 1. Django Reference** – <https://docs.djangoproject.com/en/5.1/>
- 2. Learning** – Geek for Geeks – <https://www.geeksforgeeks.org/>
W3 Schools – <https://www.w3schools.com/django/index.php>
- 3. Debugging** – Stack Overflow – <https://stackoverflow.com/questions>
- 4. Other General Links** – Google , Youtube , Wikipedia , Github , Udemy
- 5. General Utility Softwares** – Canva , Word , Excel , Powerpoint
- 6. Chrome Extension** – GoFullPage
- 7. Books Referred** –

The Floor is Open For Questions
Thank You