

# **Database Management System (Sessional)**

## **Final Report**

**Course: CSE-314**



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## **E-Commerce Platform**

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### **Team Members**

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## **Executive Summary**

The project is an e-commerce platform built using Django, designed to sell various consumer electronic products such as headphones, power banks, routers, and more. The system features a Product model with attributes like title, selling price, category selection, and image, allowing users to browse and interact with items through a responsive interface. The platform Django for server setup and includes JavaScript for user interactions, making it a robust solution for electronics e-commerce.

The users who will benefit from this e-commerce project are electronics enthusiasts, tech-savvy consumers, and potential buyers interested in purchasing or learning about various consumer electronic products such as headphones, power banks, routers, sound boxes, smart watches, and more. The platform's intuitive interface and organized product categorization make it an ideal destination for shoppers seeking to explore and purchase a wide range of electronics products efficiently.

**Time Stamp :**

Member Name	Requirement Specification (1 week)	Planning (2 week)	Designing (2 week)	Model Building (2 week)	User Interface (1 week)	Testing (1 week)
Md. Zakirun Noby	√	√	√	√	√	√
Md.Shafin Ahamed Hredoy	√	√	√	√	√	√
Raphid Bin Azad	√	√			√	
Mostofa Main Uddin	√	√			√	√
Foysul Ahamed	√	√	√			
Jannatul Tabassum Nahar	√	√	√			√

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# **1. Goals and Objectives of the Project**

## **Goal:**

To provide a comprehensive e-commerce platform for consumers to purchase and explore various consumer electronic products.

## **Objectives:**

### **Centralized Management:**

Develop a system to manage products, categories, and related data efficiently within a single interface.

### **Enhanced Learning Experience for Students:**

Create an intuitive platform that simplifies browsing, searching, and purchasing for consumers.

### **User-Friendly Interface:**

Provide an extensive range of consumer electronics products, catering to diverse user needs.

## **1.1 Scope of the Work**

### **Product Management:**

Develop a system where products can be created, updated, and deleted by administrators or business users.

### **User Experience:**

Ensure that both admin users and consumers have an easy-to-use interface for browsing, searching, viewing product details, and purchasing items.

### **Category Expansion:**

Establish and maintain a comprehensive range of product categories specifically focused on consumer electronics to meet diverse user needs and preferences.

These objectives are tailored to guide the project in building a functional e-commerce platform that efficiently manages consumer electronics products and provides a seamless shopping experience for users.

**Findings:**

- Database model creation
- Data fetching problem
- Course Model
- Take Note

**Tools:**

- Frontend : HTML , CSS , JS
- Backend : PYTHON (Django)
- Database : sqlite

## System Work Flow (Activity Diagram) :

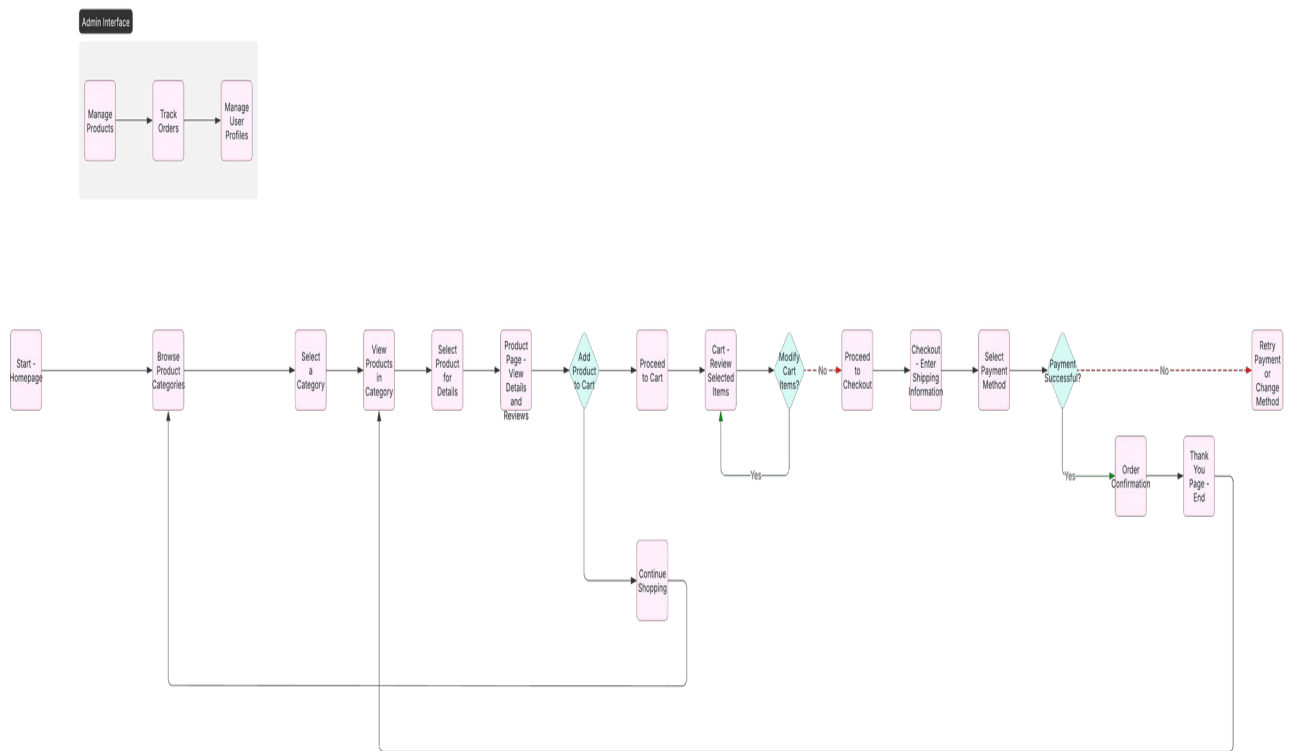
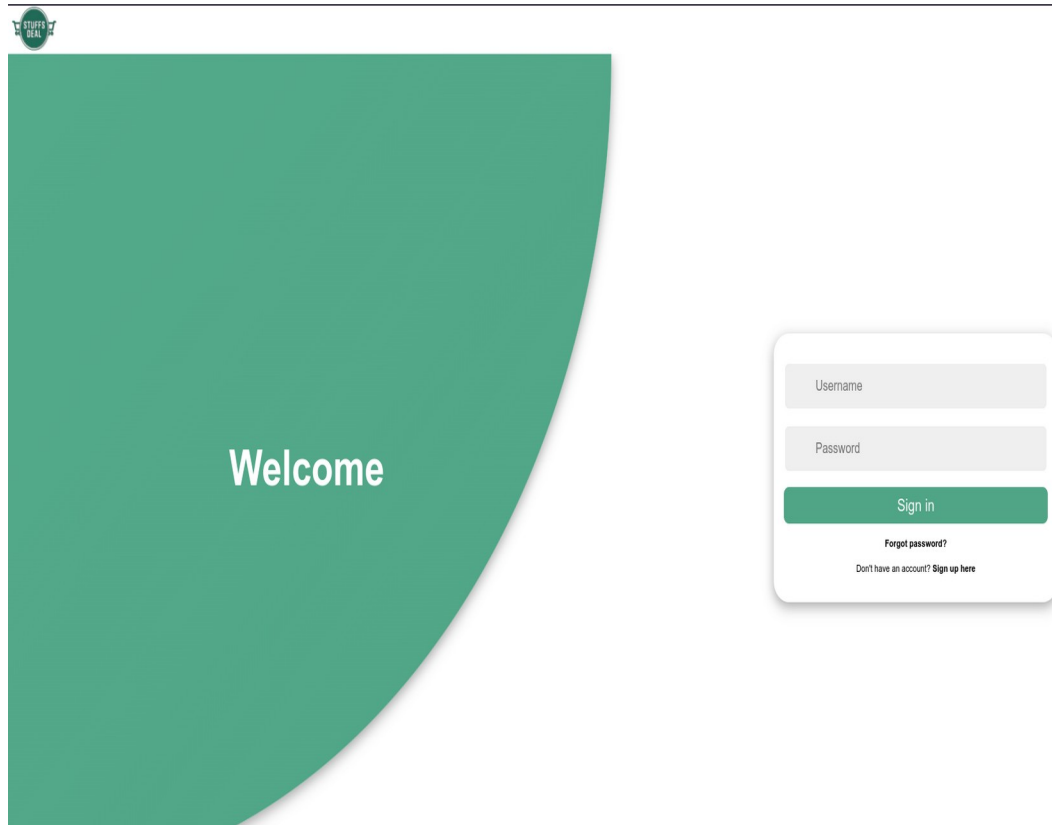


Fig - 1

## Result Analysis :


### GUI (Graphical User Interface) design:

Registration:





Login:






Sign up

Already have an account? [Sign in here](#)

Join with us


Home page:



All Categories  Search for more than 20,000 products 


[Shop](#) [Accessories](#) [Contact](#) [Help](#) [Cart](#)

A9 Pro  
ANC Touch  
Screen  
Display  
Earbuds




Model: A9 Pro  
Active Noise Cancellation (ANC)  
Transparency Mode  
Comfortable Fit  
Total Play time: Up to 30 hours Charging  
Dock Battery Capacity: 300mAh with  
protection board (3C fast charging  
battery), Headphone Battery: 30mAh +  
30mAh Charging time: 2 Hours

Wireless  
Bluetooth  
Speaker



Phillips  
6-10 Hours Music Time  
Bluetooth 5.3

Unique Bicycle  
Vintage Flip Desk  
Clock



Model:HY-F117  
Material: Metal  
Battery: 1.5v AA

Page 8

All-Products :

STUFFS  
DEAL

All Categories

Search for more than 20,000 products

Q

Shop

Accessories

Contact

Help

Cart

Search here

Showing 1-10 of 55 results

Default sorting

Categories

Tags

Brands

Filter By Price

White

Cheap

Mobile

Modern

Apple

Samsung

Huwei

Less than \$10

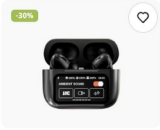
\$10- \$20

\$20- \$30

\$30- \$40

\$40- \$50

-30%



A9 Pro

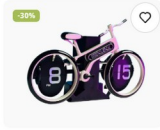
1 UNIT

1

+

Add To Cart

-30%



Unique Bicycle Vintage Flip Clock


1 UNIT

1

+

Add To Cart

-30%



Baseus PowerBank


1 UNIT

1

+

Add To Cart

-30%



Transparent Mouse


1 UNIT

1

+

Add To Cart

-30%



EcoFlow PowerHouse

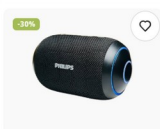
1 UNIT

1

+

Add To Cart

-30%



Purify PurePods

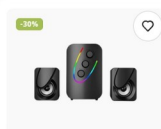
1 UNIT

1

+

Add To Cart

-30%



Baseus PowerBank


1 UNIT

1

+

Add To Cart

-30%



Purify PurePods

1 UNIT

1

+

Add To Cart

Admin Login:

Django administration

Username:

Password:

Log in

Product Model :

Django administration

WELCOME, ZAKIRUN | VIEW SITE | CHANGE PASSWORD | LOG OUT

Home / Base / Products

Start typing to filter:

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

BASE

Products + Add

Select product to change

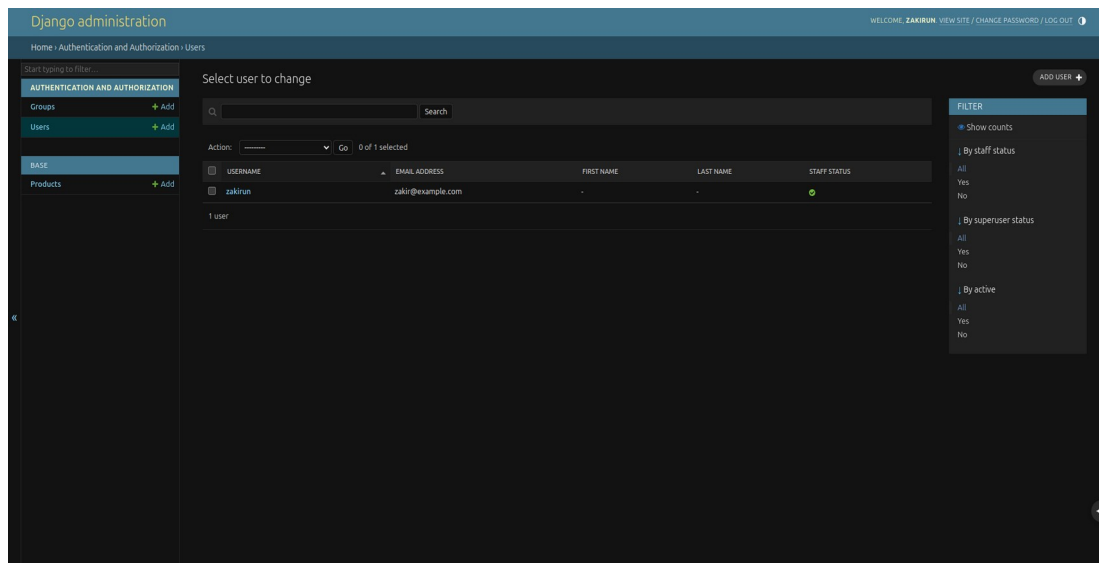
ADD PRODUCT

Action: Go 0 of 10 selected

ID	TITLE	SELLING PRICE	DISCOUNTED PRICE	CATEGORY	IMAGE
10	RECCI R5K4W30 Transparent Wireless Speaker with RGB Light- Black Color	55.0	25.0	Sound Box	products/product-thumb-10.png
9	Havit KB884L RGB Backlit Mechanical Wired Gaming Keyboard	55.0	25.0	Keyboard	products/product-thumb-9.png
8	Kieslect KP2 Bluetooth Calling Smart Watch	55.0	25.0	Smart Watch	products/product-thumb-8.png
7	Home Speaker	55.0	25.0	Sound Box	products/product-thumb-6.png
6	Philips SoundBox	55.0	25.0	Sound Box	products/product-thumb-5.png
5	Speaker with Karaoke	55.0	25.0	Sound Box	products/product-thumb-4.png
4	Transparent Mouse	55.0	25.0	Mouse	products/product-thumb-3.jpg
3	Basect PowerBank	55.0	25.0	Power Bank	products/product-thumb-1.png
2	Unique Bicycle Vintage Flip Clock	55.0	25.0	Sound Box	products/product-thumb-2.png
1	A9 Pro	55.0	25.0	Earbuds	products/product-thumb-7.png

10 products

## User Model :



## **Conclusion :**

The E-Commerce Platform for Consumer Electronics is an online shopping platform designed to cater to tech-savvy consumers. By organizing products into distinct categories such as Earbuds, Smart Watch, Mouse, Sound Box, Router, Stand Fan, Printer, Keyboard, Headphone, and Power Bank, the platform provides a structured approach for users to explore and purchase consumer electronics.

The system likely features an intuitive user interface that simplifies browsing and purchasing. Custom JavaScript plugins could enhance user experience by enabling interactive elements like category expansion or image zooming, ensuring a seamless and engaging shopping journey.

Configurations for ASGI and WSGI environments ensure the platform is deployment-ready, allowing it to adapt to different hosting needs while maintaining scalability. The inclusion of Django migrations further underscores its flexibility, supporting future product categorizations and feature expansions.

In essence, this platform is a comprehensive solution aimed at transforming consumer electronics shopping into an efficient and enjoyable experience. It balances user-centric design with robust technical capabilities, positioning it as a valuable asset in the competitive landscape of online commerce.

**References :**

- Django official website
- Anisul Islam(YT)
- Apna college (YT)
- Dave Gray (YT)