



# **ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY**

**College of Electrical and Mechanical Engineering**

**Departments of Electrical and Computer Engineering**

**(Computer Engineering Stream)**

Advanced programing Project

**Title:** E-commerce System

**Name:**

Getachew Getu

**ID NO:**

ETS0557/10

**Submitted to:** Mr. Eyobe B.

**Submission Date:** May 11, 2022

## Introduction

The e-commerce website will feature the online shopping facility of various fashion products under a single web space. The proposed web application will allow business personnel to make their total business using it and increase their reachability thousands of times more than today they have. It will allow multiple shopping vendors to sale their products online. E-commerce website in django is designed to automate the sale and purchase of products or services via internet means. Businesses can sell products using the platform, they can post the products with the price and ship them to the buyers when purchased. Consumers can browse the website to buy and also process the payment in the system.

This project deals with developing a virtual website e-commerce website. It provides the user with a list of the various products available for purchase in the store. For the convenience of online shopping, a shopping cart is provided to the user. After the selection of the goods, it is sent for the order confirmation process.

The system will display products, customers can select catalogs and select products, and can remove products from their cart specifying the quantity of each item. Selected items will be collected in a cart. At checkout, the item on the card will be presented as an order. Customers can pay for the items in the cart to complete an order.

Customer can have allowed to shops a product, have the right to changes quantity, can adds an item to the cart, views cart, have the right to checks out products

The system will be containing Homepage, order, add product, register and login/logout system

1. **The home:** This method provides home page for both customer and admin, I will just display the available products on the python e-commerce home page and the difference would be only in the navbar for admin and customer.
2. **place Order:** This view is a customer-only view and it allows customers to place their orders. It uses the Create Order form to implement its functionality.
3. **Add Product:** I am using the Create Product Form in this view function, and after validating the information the product's details will be stored in the

database system. This model stores product details like image, name, description. This functionality is only allowed for system an admins.

4. **Login/Logout:** the system supports login, authenticating (validating) and logout users in to the system.
5. **Sign up:** the new customer must first sign up (register in the system) before accessing any products by their valid email, username phone. After registering the customer login into the system and then can order, view, add products into the cart

## Statements of the problem

Traditionally, selling and buying goods are done through personal means. The sellers have their physical store that displays their products and goods and customers will visit the store to look for products and manually buy them. The traditional retail process is limited by physical barriers and time constraints. To overcome the time consuming and physical barrier I will propose e-commerce system.

## Objective

### General objective:

- The main objective of this project is the merchant promote and sell products with a right time with the right person by minimizing physical barrier and time consuming.

### Specific Objective:

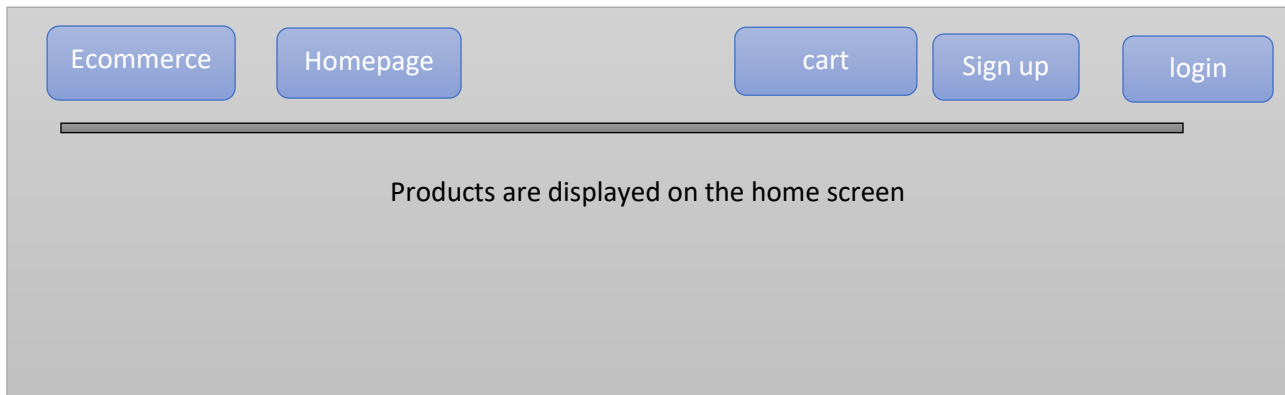
- To design an online shopping system.
- To provides a solution to reduce and optimize the expenses of customer order management
- To create an avenue where people can shop products online.
- To develop a database to store information on products and services.

## Scope of the project

The scope of the project will be limited to some functions of the e-commerce website. It will display products, customers can select catalogs and select products, and can remove products from their cart specifying the quantity of each item.

Selected items will be collected in a cart. At checkout, the item on the card will be presented as an order. Customers can pay for the items in the cart to complete an order. This project has great future scope. The project also provides security with the use of login ID and passwords, so that no unauthorized users can access your account. The only authorized person who has the appropriate access authority can access the software.

### **Abstract diagram:**



### **Programming language requirement:**

#### **Front end technology:**

- **Html:** displays content on web page
- **CSS:** creates beautiful styles
- **Bootstrap:** html, css, and javascript framework used to build responsive websites

#### **Backend technology:**

- **Python:** programming language.
- **Django** framework: web development framework

## **Software requirement**

- Django Latest Version
- Python
- Visual studio code editor (Vs-code)