

Project Report  
on  
**E-Commerce website**

Project Guide - Prof. Irfan Khatik

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**CERTIFICATE**

This is to certify that the project entitled

\_\_\_\_\_ submitted by

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

in partial fulfillment of the requirement of the completion of M.Sc.(C.S)-I [Semester-II],  
has been carried out by them under our guidance satisfactorily during the academic year  
2021-2022.

Place: Pune

Date:    /    /2022

**Head of Department  
Department Of Computer Science  
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**Project Guide:**

1. \_\_\_\_\_

**Examiners Name**

**Sign**

1. \_\_\_\_\_

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# ABSTRACT

The main objective of the Ecommerce is to manage the details of Products, Customer, Shipping address, Order, Transaction ID, Shopping cart, Live Client ID, CSRF (Cross-site Request Forgery).

The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Category (Physical product (Ex-Book, T-shirt), Digital Product (Ex-Source Code)), Products, Customer, Shipping Address. It Tracks the all details about Address, Cart, order and Payment.

# INTRODUCTION

E-Commerce is web-based application which enable customers to order Products through online mode. The internet users are increasing rapidly; the company has introduced “Ecommerce” system for getting the orders from customers. It is very typical to establish a small-scale business with less resources to provide quality services. Now a day’s people are attracted to online business. Let us assume if there is any online business where customers can order their needs and the goods will reach them at the expected delivery time. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the Products offered, Price of product, they can increase the count of products they can also add and remove items and can put it into cart, likewise customers can order Products which they Want and this database will be the barrier for the customers and Administrator to provide the services. Our solution provides ordering process for the company and customers The Product list are available in the database so that a customer can place an order with multiple items. Once the customer pay the amount order will get placed.

# OBJECTIVE

The main objective of the project is to learn and implement a real-time application on database for Ecommerce. The Project concentrates on taking order, Shipping the order and maintaining the all details of payment and information of products, customer. The Primary goal of ecommerce is to reach maximum customers at the right time to increase sales and profitability of the business.

Ecommerce drives profitable growth by expanding customer reach, reducing cost-to-serve, and creating differentiated customer experiences.

# FEATURES

- Providing single platform to the customer for various type of products.
- Administrator can track the details of customer.
- Administrator can also track the details of unauthenticated customer.
- Providing Payment Gateway.
- User can visit the site and add the items to cart and checkout without needing to create an account.
- Customer can order many times and also order same product in multiple by incrementing count.

# ADVANTAGES

- Unique database of customer
- Store and product listing creation
- Faster buying process
- Cost reduction
- Product and price comparison
- Flexibility for customer
- Affordable advertising and marketing
- Faster response to buyer/market demands
- Several payment modes



# HARDWARE AND SOFTWARE REQUIREMENTS

## Software Requirements:

- Python IDE for Developers by JetBrains.  
(PyCharm 2021.2)
- Python 3.10
- Django 4.0

## Hardware Requirements:

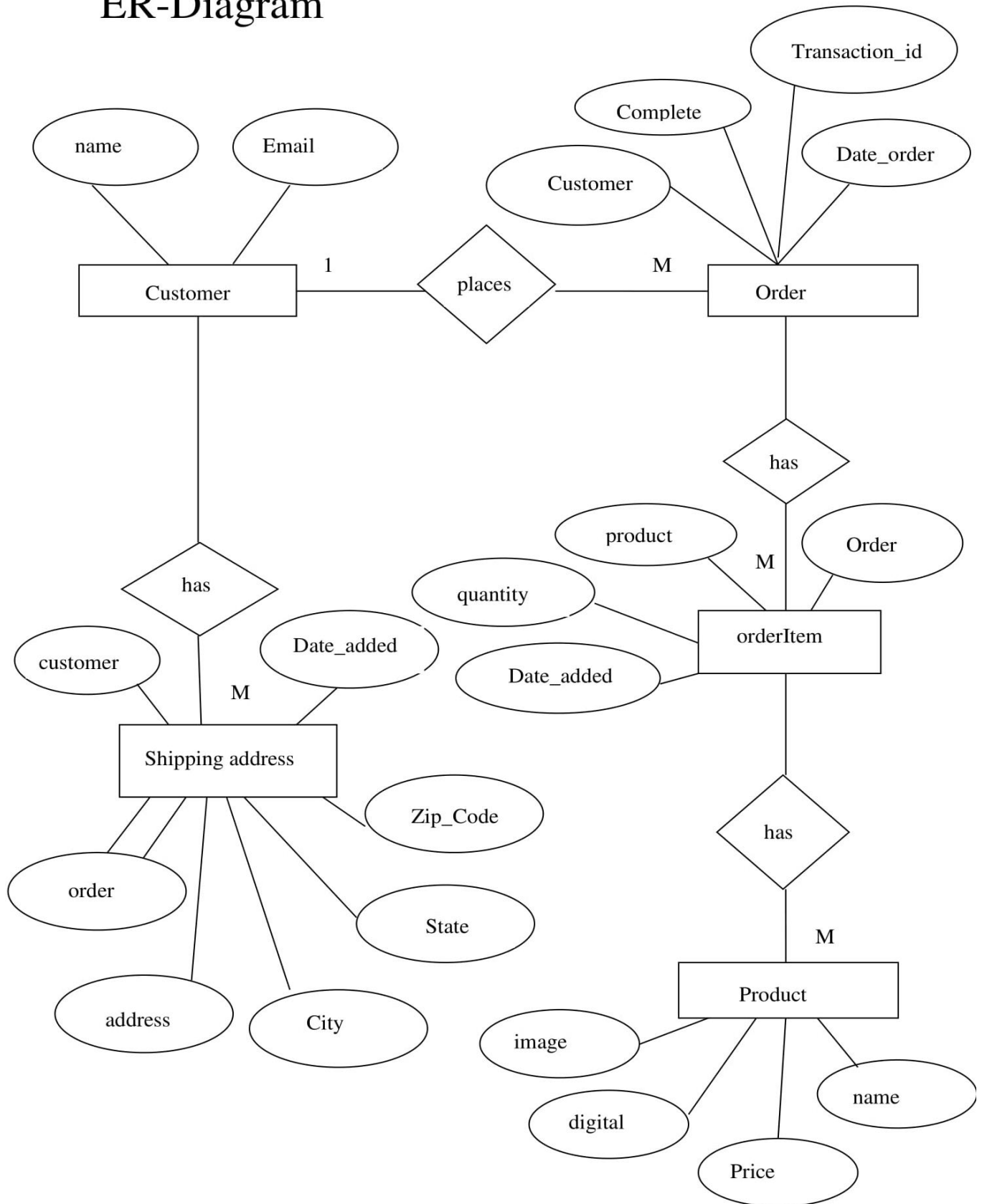
We strongly recommend a computer fewer than 5 years old.

Processor: Minimum 1 GHz; Recommended 2GHz or more

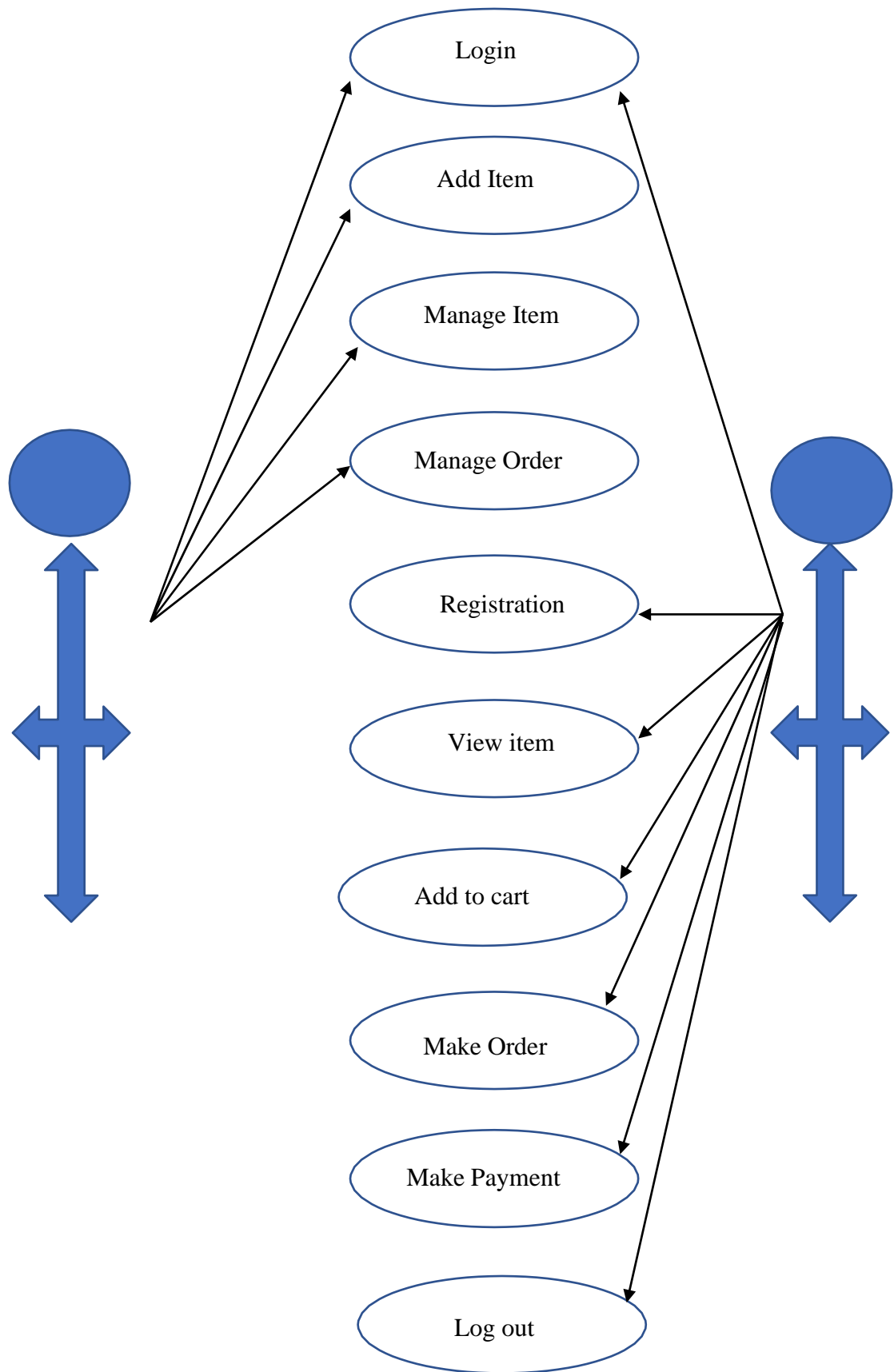
Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)

Hard Drive: Minimum 32 GB; Recommended 64 GB or more Software.

# ER-Diagram



# USE CASE DIAGRAM

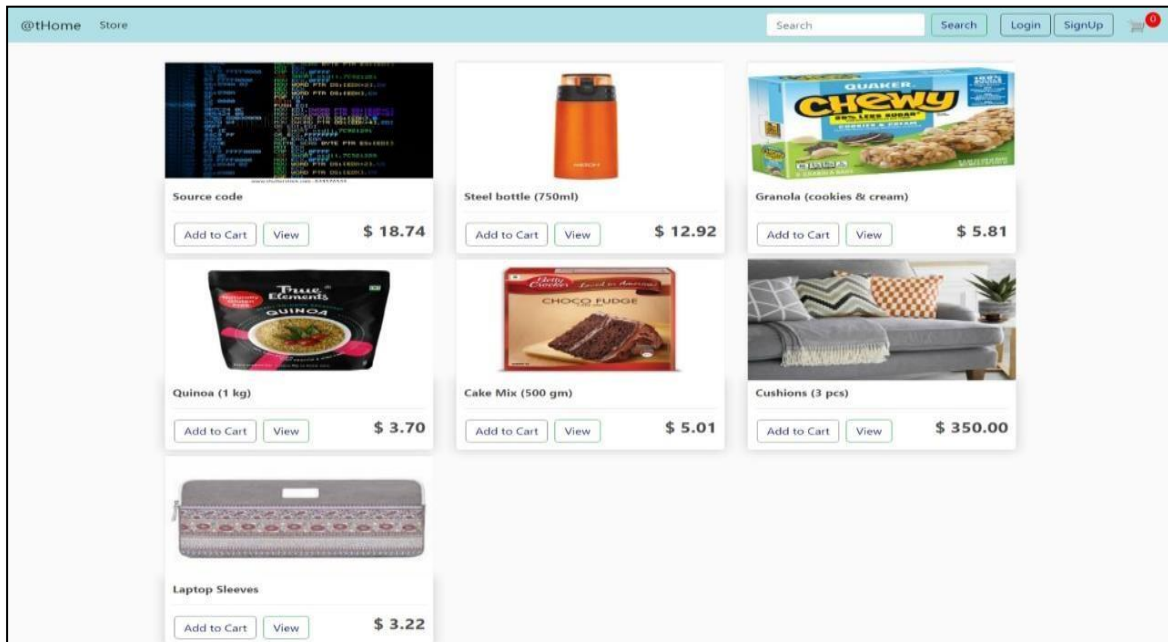


# MODULES

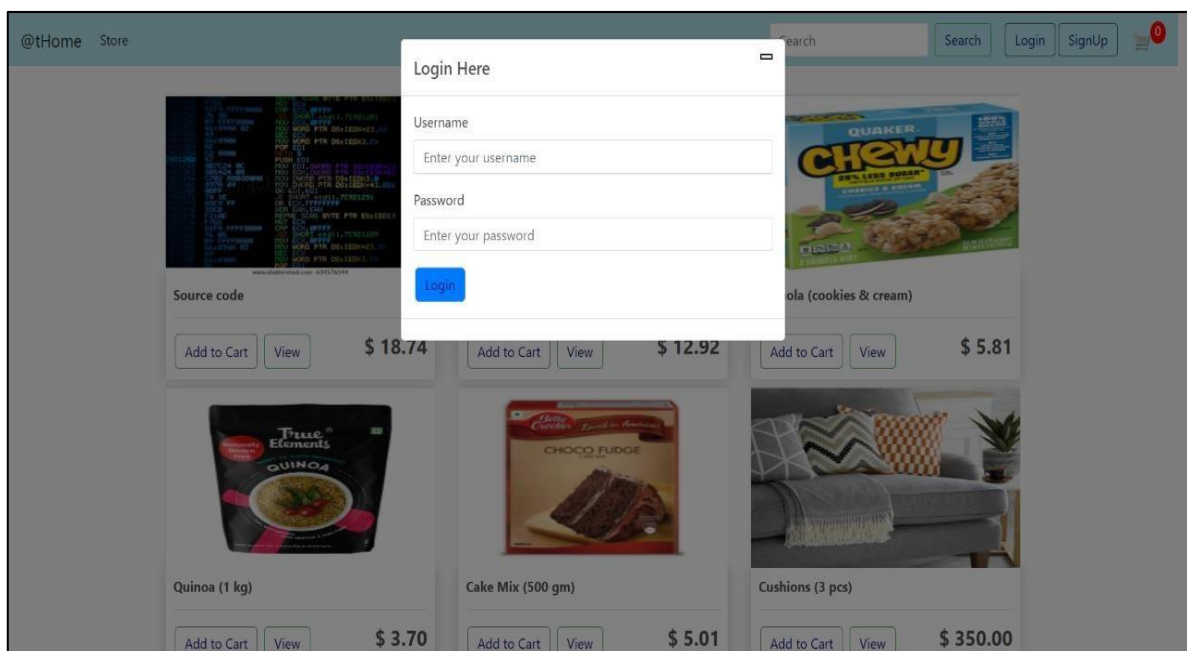
- **Administration Module**
  - Gives permissions and access to user/customers.
  - Add the products in store.
- **Customer Module**
  - (Authenticated Guest)
    - Add to cart
    - Update cart
    - Checkout
  - (Unauthenticated Guest)
    - Add to cart
    - Checkout without ever needing to create an account.
- **Payment Module**
  - PayPal will give the user the ability to do quick checkout using their PayPal account OR Credit/Debit card.
- **Cart Module**
  - Its Stores the count and Product info from user.
- **Checkout Module**
  - Retrieve data from database and show it to the customer to proceed further.

# INPUT/OUTPUT SCREENS

## Home Page



## Login Page



# Signup Page

@tHome Store

Search

Login

SignUp

0

SignUp Here

Username

Please select unique username

First Name

First name

Last Name

Last name

Email address

name@example.com

Password

Choose your password

Confirm Password

Enter password again

Submit

Source code

Add to Cart

View

\$ 1

Quinoa (1 kg)

Add to Cart

View

\$

QUAKER CHEWY 100% WHEAT SUGAR COOKIES & CREAM

Add to Cart

View

\$ 5.81

Quinoa (1 kg)

Add to Cart

View

\$


Quinoa (1 kg)

Add to Cart

View

\$ 350.00

# View Page



Betty Crocker *Loved in America!*

CHOCO FUDGE CAKE MIX

Betty Crocker Cake Mix

SERVES 12 Rich chocolate

## Betty Crocker Cake Mix(500gm)

**RICH CHOCOLATE**

Old Price: ~~\$6.00~~


New Price: \$5.01(-15%)

### About This Item:


- Betty crocker chocolate fudge cake is your trip into the world of sinfully rich food
- Enjoy baking a wonderfully delicious cake right at home with no fuss or bother
- Decadent chocolate flavour
- Rich in carbohydrates
- So grab your apron and mixing bowl and fire up your oven.

- ✓ Flavour: Rich chocolate
- ✓ Availability: In stock
- ✓ Quantity: 500 grams
- ✓ Shipping Area: All over the world
- ✓ Shipping Fee: 0


← Back to store




JUST 1 SIMPLE STEP



OUR RANGE

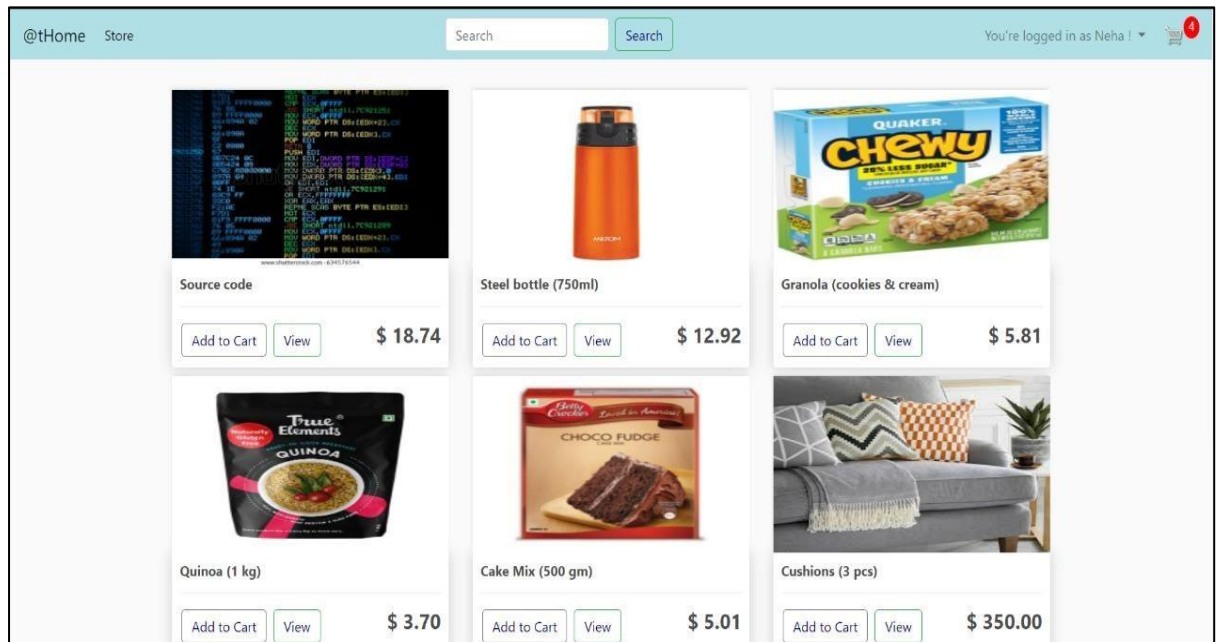


Choco Fudge Cake

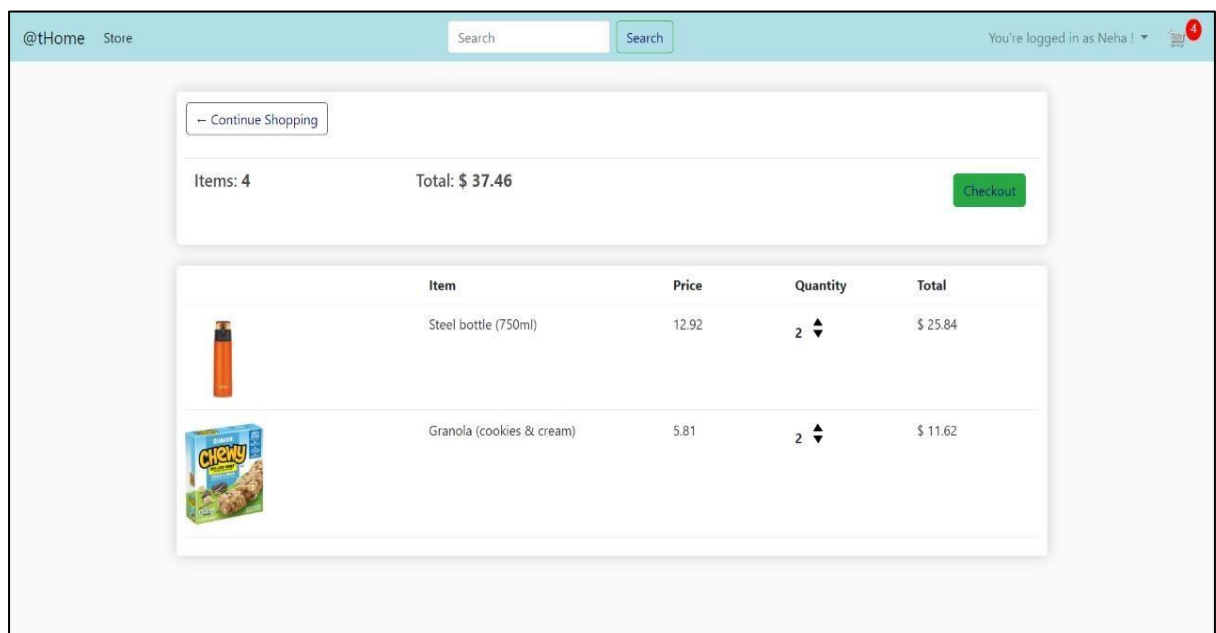


Fresh & Fluffy

# Cart Count



Cart Products info page for user. User can increment quantity using arrows.



# Order Summary Page

@tHomeStore

Search

Search

You're logged in as Neha !

Shipping Information:

Address

City

State

Zip code

Country

Paypal Options


PayPal

Debit or Credit Card

Powered by PayPal


← Back to Cart

Order Summary

Steel bottle (750ml)

\$ 12.92

x 2

Granola (cookies & cream)

\$ 5.81

x 2

Items: 4

Total: 37.46



# TESTING

## Importance of testing

The purpose of a test case is to determine if different features within a system are performing as expected and to confirm that the system satisfies all related standards, guidelines and customer requirements.

The process of writing a test case also help reveal errors or defects within the system

## Test Cases

- Functionality test cases.
- Performance test cases.
- Unit test cases.
- User interface test cases.
- Security test cases
- Integration test cases
- Database test cases
- Usability test cases.

## Test cases

1. Email, Password validation.
2. Authentication of user.
3. Admin side validations
4. Product, Order, Category(physical product/Digital product) validations.
5. Payment validations.

# FEASIBILITY STUDY

## Economic Feasibility

We are developing a project for practice purpose that will give us a lot of confidence to build a bigger projects in future. Hence the economical feasibility is very good. Languages used for building this system are free to use.

## Operational Feasibility

customer can give orders whenever they want so the travelling time of customer will be reduced...owner can be trained by the developers to use this system, System will have a simple & user-friendly interface.

## Technical Feasibility

In this aspect of feasibility, we consider the technical equipment's required for system development. For this we required various hardware equipment's such as computer, PyCharm, Django System will required developers Python developers which are easily available.

# FUTURE ENHANCEMENT

- Tracking of the user history
- Billing System
- Sorting according to categories
- Coupons during checkout

## REFERENCES

[www.images.google.com](http://www.images.google.com)

[www.w3schools.com](http://www.w3schools.com)

[www.geeksforgeeks.org](http://www.geeksforgeeks.org)

<https://www.amazon.in/>