MONARK UNIVERSITY

RUDRA GOSWAMI COLLEGE OF COMPUTER APPLICATION

BACHELOR OF COMPUTER APPLICATION

SEMSTER – VI

SOFTWARE DEVELOPMENT PROJECT - II

E-commerce Shopping System

Guided By:

Prof. Sahil Sabugar

Prepared By:

1. Faizan Mansuri (129)

2. Patel Vishva (229)

COMPANY CERTIFICATE

Creative Optimum Solution

08-10-2023

<u>TO WHOMSOEVER IT MAY CONCERN</u>

We are pleased to inform you the Mr. Faizan Mansuri, BCA of Rudra Goswami College of Computer Application Have been Selected for the Final Year Project Internship on .NET & Angular at Creative Optimum Solution.

Project Detail:
Backend- .Net core
Frontend- Angular
Database- Sql server

Defination: E-commerce application

www.creativeoptimumsolution.com

COLLEGE CERTIFICATE

MONARK UNIVERSITY

RUDRA GOSWAMI COLLEGE OF COMPUTER APPLICATION

[April/May-2024]

This is to certify that this project entitled **"E-commerce Shopping system"** is carried out by **Mansuri Faizan & Patel Vishva** Studying at Bachelor of Computer Application in 6th Semester (Rudra Goswami BCA College, Vahelal) for partial fulfillment Bachelor of Computer Application degree to be awarded by Monark University.

This project work has been carried out under faculty Guidance. The project is fit to the considered at for evolution for the degree Of Bachelor of Computer Application.

Place: Vahelal

Date:

Guide Name: **Principle Name:**

Prof. Sahil Sabugar   **Prof. Sudha Patel**

ACKNOWLEDGEMENT

With due sense of respect and gratitude, We would like to extend our heartiest thanks to all those people who provide us wonderful guidance, support and experience to work at
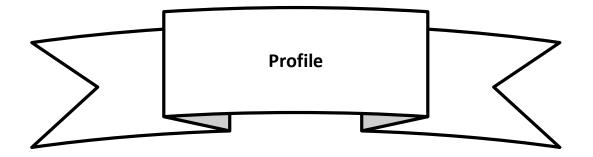
E-commerce Shopping System

We will fall short in our duties, if we forget those people, which not only carved this way for us, but where there, whenever called for <u>Prof. Sahil Sabugar,</u> faculty of Rudra Goswami College of Computer Application and internal project guide us. They created desire in us to pursue our goal and to attain new heights. We acknowledge the kind assistance and encouragement given by him by giving us valuable information and clarifying our doubts. Also the other faculty members and our faculties of our lab have been very kind to us in the competition of our project.

These formal thanks are only TOKEN that we present to these wonderful people to appreciate their support and guidance given by them.

INDEX

Profile

Company Profile

Company Name: CREATIVE OPTIMUM SOLUTION

About: We are the solution provider who understands the growth in every aspect of the technology to grow any business from scratch. We are a group of remarkable people who developed our interest in the IT field to encourage other industries to grow and advance their technical knowledge.

Address: 36, Rajdhani Co. oprerative society – 1, Kudasan Gandhinagar.

Contact: +91 8735808185
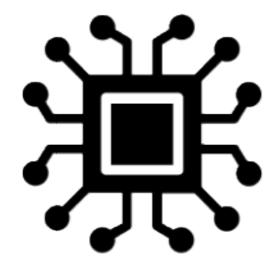
creativeoptimumsolution@gmail.com

www.creativeoptimumsolution.com

PROJECT PROFILE

Project Title	Shopping System
Project Category	E-Commerce Web Application
Frontend	HTML5, CSS3,TYPESCRIPT& ANGULAR
Backend	C# & .NET CORE
Server	SQL
IDE	Visual Studio Code
Guide	Prof. Sahil Sabugar
Member	Mansuri Faizan (129) Patel Vishva (229)
Group No.	60

PROJECT DEFINITION

✓ Our E-Commerce Shopping System is a method of buying goods and services online. Our system allows people to buy good services & digital products.

✓ Our E-Commerce System is a complete shopping facility system program which looks after all of your customers, orders, and other activities.

✓ Our E-Commerce Shopping System is Provide lots of functions.

✓ Such data entry of customer, keeping records of all the things about customer's orders pending payments and other good services. This system structure is become very simple to understand because of Data Flow Diagram provided by us.

✓ The demo of using the software such as customer detail from, data base of system is also provided by us.

System & Technology

EXISTING SYSTEM

➢ The Existing System has several modules like registration, orders and product list etc.

➢ All these modules currently run manually and on basis of paper work.

➢ This Existing E-Commerce Shopping System is based on paper work. And the documentation of current system is traditional documentation and management.

➢ Our System is made up of different component.

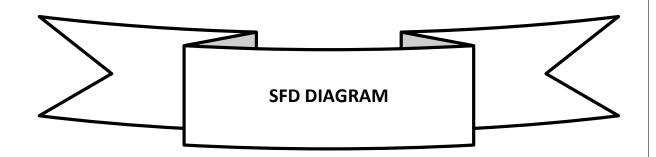➢ Once a Component is created in the system, we can use many times.

PROPOSED SYSTEM

➢　　Our E-Commerce Shopping System is Login Authentication; the user cannot access any page without login. Once user is logged in the Application they will not allow login again till login is expired.

➢　　Our Application is single page Application. The page content and URL changed without loading page. Our Application is user Friendly.

TOOLS & TECHNOLOGY

TOOLS AND TECHNOLOGY	DISCRIPTION
HARDWARE	Intel Core i3 and above processor 8 GB RAM 512 GB HDD
SOFTWARE	Visual studio code, SQL server
FRONTEND	UI-DEVELOPMENT: HTML5, CSS3, ANGULAR, TYPESCRIPT, BOOTSTRAP.
BACKEND	C# & .NET CORE
SERVER	IIS

SFD DIAGRAM

SYSTEM FLOW DIAGRAM

```
                        START

            ADMIN                    CUSTOMER

         LOGIN                REGISTER      LOGIN

      MANAGE              SEARCH      LIST PRODUCT
      PRODUCT             PRODUCT

      MANAGE                  ADD CART
      CATEGORY

      MANAGE SALE              ORDER

      MANAGE                           VIEW CART
      ORDER

      MANAGE                           VIEW ORDER
      CUSTOMER

      MANAGE                           EDIT PROFILE
      PROFILE

                      LOG OUT

                        END
```
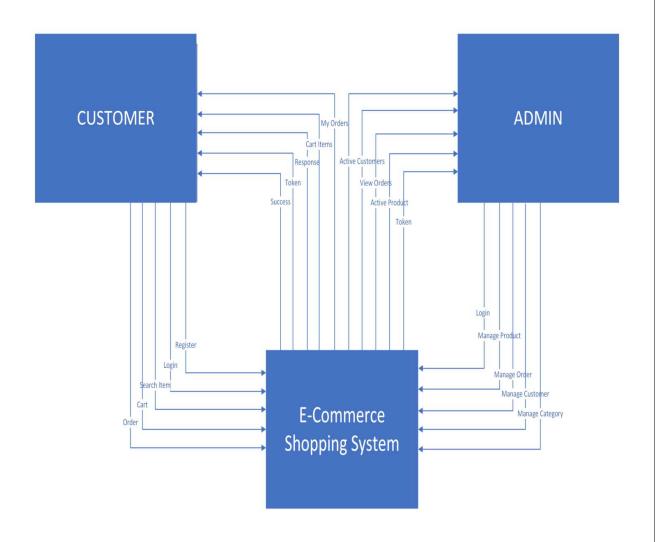
DFD Diagram

DATAFLOW DIAGRAM

CUSTOMER

ADMIN

My Orders

Cart Items

Response

Token

Success

Active Customers

View Orders

Active Product

Token

Register

Login

Search Item

Cart

Order

E-Commerce
Shopping System

Login

Manage Product

Manage Order

Manage Customer

Manage Category

LEVEL 1 - ADMIN

- TOKEN
- LOGIN

1.0 LOGIN
- DETAILS → **TBL LOGIN**
- LOGIN ←

- VIEW PRODUCT
- MANAGE PRODUCT

2.0 MANAGE PRODUCT
- DISPLAY → **TBL PPRODUCT**
- PRODUCT ←

- VIEW CATEGORY
- MANAGE CATEGORY

5.0 CATEGORY
- DISPLAY → **TBL CATEGORY**
- CATEGORY ←

ADMIN

- MANAGE CUSTOMER
- VIEW CUSTOMER

4.0 MANAGE CUSTOMER
- CUSTOMER ← **TBL CUSTOMER**
- DETAILS →

- MANAGE ORDER
- VIEW ORDER

5.0 MANAGE ORDER
- ORDER ← **TBL ORDER**
- DETAILS →

LEVEL 2 - ADMIN

ADD PRODUCT ──────────────────────→ **2.1 MANAGE PPROPDUCT** ←────────── ADD PRODUCT

VIEW PRODUCT ──────────────────────→ DETAIL

ADMIN ── UPDATE PRODUCT ──→ **2.2 UPDATE PRODUCT** ── DETAIL ──→ **TBL PRODUCT**

←── VIEW UPDATE DETAIL ── ←── DETAIL ──

VIEW DETAIL ──────── **2.3 DELETE PRODUCT** ←──── PRODUCT STATUS

DELETE PRODUCT ──────────────────→ DETAIL

LEVEL 3 - ADMIN

ADD CATEGORY ——————————→ **3.1 MANAGE CATEGORY** ←—————— ADD CATEGORY

VIEW CATEGORY —————————→ ←—————— DETAIL

ADMIN

UPDATE CATEGORY —————→ **3.2 UPDATE CATEGORY** —— DETAIL ——→ **TBL CATEGORY**

←— VIEW UPDATE DETAIL —— ←—————— DETAIL

VIEW DETAIL ———————→ **3.3 DELETE CATEGORY** ←—————— CATEGORY STATUS

DELETE CATEGORY ——————→ ←—————— DETAIL

LEVEL 1 - CUSTOMER

LEVEL 2 - CUSTOMER

ADD CART————————————————→ 4.1
ADDCART

VIEW CART————————————————

ADD CART

DETAIL

CUSTOMER

TBL
CUSTOMER

VIEW DETAIL————————————————

4.2
REMOVE CART

CART STATUS

REMOVE CART————————————————

DETAIL

LEVEL 3 - CUSTOMER

ADD ORDER───────────────┐   ┌───ADD ORDER

VIEW ORDER──────────┐   **5.1**   ┌──DETAIL
                        ADD ORDER

CUSTOMER   TBL ORDER

VIEW DETAIL──┐   **5.2**   ┌──ORDER STATUS
                       DELETE ORDER

DELETE ORDER──────────────┘   └──DETAIL

ERD Diagram
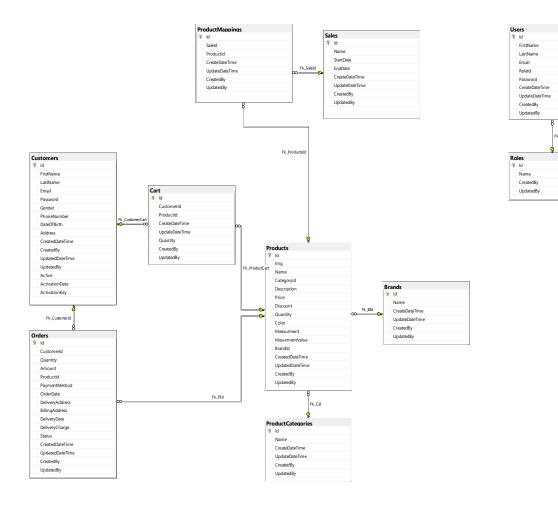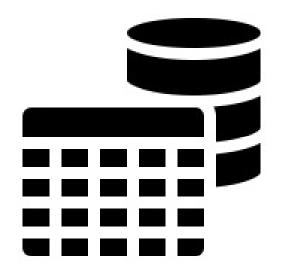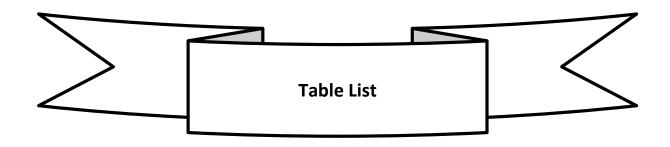
ENTITY RELATIONSHIP DIAGRAM

ProductMappings
- Id
- SaleId
- ProductId
- CreateDateTime
- UpdateDateTime
- CreatedBy
- UpdatedBy

Sales
- Id
- Name
- StartDate
- EndDate
- CreateDateTime
- UpdateDateTime
- CreatedBy
- UpdatedBy

Users
- Id
- FirstName
- LastName
- Email
- RoleId
- Password
- CreateDateTime
- UpdateDateTime
- CreatedBy
- UpdatedBy

Roles
- Id
- Name
- CreatedBy
- UpdatedBy

Fk_SaleId

Fk_RoleId

Fk_ProductsId

Customers
- Id
- FirstName
- LastName
- Email
- Password
- Gender
- PhoneNumber
- DateOfBirth
- Address
- CreatedDateTime
- CreatedBy
- UpdatedDateTime
- UpdatedBy
- Active
- ActivationDate
- ActivationKey

Cart
- Id
- CustomerId
- ProductId
- CreateDateTime
- UpdateDateTime
- Quantity
- CreatedBy
- UpdatedBy

Fk_CustomerCart

Products
- Id
- Img
- Name
- CategoryId
- Description
- Price
- Discount
- Quantity
- Color
- Measurment
- MesurmentValue
- BrandId
- CreatedDateTime
- UpdatedDateTime
- CreatedBy
- UpdatedBy

Brands
- Id
- Name
- CreateDateTime
- UpdateDateTime
- CreatedBy
- UpdatedBy

Fk_ProductCart

Fk_BId

Fk_CustomerId

Orders
- Id
- CustomerId
- Quantity
- Amount
- ProductId
- PaymentMethod
- OrderDate
- DeliveryAddress
- BillingAddress
- DeliveryDate
- DeliveryCharge
- Status
- CreatedDateTime
- UpdatedDateTime
- CreatedBy
- UpdatedBy

Fk_PId

Fk_CId

ProductCategories
- Id
- Name
- CreateDateTime
- UpdateDateTime
- CreatedBy
- UpdatedBy

Table List

LIST OF TABLE

NO.	TABLE NAME
1	Customers
2	Products
3	Orders
4	Role
5	Cart
6	Categories
7	Brands
8	Users
9	Offers & Sales
10	ProductMapping

TABLE 1 Customers

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Customer Id
2	FirstName	Varchar	15	not null	Customer First name
3	LastName	Varchar	15	not null	Customer Last name
4	Email	Varchar	50	not null	Custmoer Email
5	Password	Varchar	10	not null	Customer Password
6	Gender	Varchar	10	not null	Customer Gender
7	PhoneNumber	Varchar	10	not null	Customer Number
8	DateofBirth	Datetimeoffeset	-	not null	Customer DOF
9	Address	Varchar	100	not null	Customer Address
10	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
11	CreatedBy	Int	-	not null	Created By
12	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
13	UpdatedBy	Int	-	null	Updated By
14	Active	Bit	-	not null	Is Customer Active ?
15	ActivationDate	Datetimeoffeset	-	not null	Cusdtomer Activated date
16	Activationkey	Varchar	5	not null	Customer Activation Key

TABLE 2 Products

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int		Primary Key	Product Id
2	Img	Varbinary	max	not null	Product Img
3	Name	Varchar	30	not null	Product Name
4	CategoryId	Int	-	Foreign Key	Product Category
5	Description	Varchar	100	not null	Product Description
6	Price	Int	-	not null	Product Price
7	Discount	Int	-	not null	Product Discount
8	Quantity	Int	-	not null	Available
9	Color	Varchar	15	not null	Product Color
10	Measurment	Varchar	15	not null	Measurement Of Product
11	MeasurementValue	Varchar	10	not null	Measurement value
12	BrandId	Int	-	not null	Product Brand
13	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
14	CreatedBy	Int	-	not null	Created By
15	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
16	UpdatedBy	Int	-	null	Updated By

TABLE 3 Orders

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Order Id
2	CustomerId	Int	-	Foreign Key	Customer id
3	Quantity	Int	-	not null	Order Product Quantity
4	Amount	Int	-	not null	Order Amount
5	ProductId	Int	-	not null	Order Product Id
6	PaymentMethod	Varchar	20	not null	Customer Payment Method
7	OrderDate	Datetimeoffeset	-	not null	Order Date
8	DeliveryAddress	Varchar	100	not null	Order Delivery Address
9	DeliveryDate	Datetimeoffeset	-	not null	Order Delivery Date
10	DeliveryCharge	Int	-	not null	Delivery Charge
11	Status	Varchar	10	not null	Delivery Status
12	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
13	CreatedBy	Int	-	not null	Created By
14	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
15	UpdatedBy	Int	-	null	Updated By

TABLE 4 Roles

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Role Id
2	Name	Varchar	20	not null	Role Type
3	CreatedBy	Int	-	not null	Created By
4	UpdatedBy	Int	-	not null	Updated By

TABLE 5 Carts

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Cart Id
2	CustomerId	Int	-	Foreign Key	Customer
3	ProductId	Int	-	Foreign Key	Product
4	Quantity	Int	-	not null	Cart Quantity
5	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
6	CreatedBy	Int	-	not null	Created By
7	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
8	UpdatedBy	Int	-	null	Updated By

TABLE 6 Product Categories

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Cart Id
2	Name	Varchar	20	not null	Category Name
3	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
4	CreatedBy	Int	-	not null	Created By
5	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
6	UpdatedBy	Int	-	null	Updated By

Table 7 Brands

No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Cart Id
2	Name	Varchar	20	not null	Category Name
3	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
4	CreatedBy	Int	-	not null	Created By
5	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
6	UpdatedBy	Int	-	null	Updated By

TABLE 8 Users
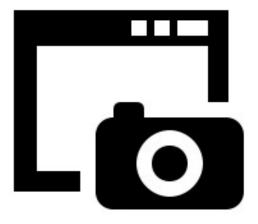
No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Cart Id
2	FirstName	Varchar	15	not null	User Firstname
3	LastName	Varchar	15	not null	User Lastname
4	Email	Varchar	50	not null	User Email
5	Role Id	Int	-	Foreign Key	Users Role
6	Password	Varchar	15	not null	User Pasword
3	CreatedDateTime	Datetimeoffeset	-	not null	Created Date Time
4	CreatedBy	Int	-	not null	Created By
5	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
6	UpdatedBy	Int	-	null	Updated By
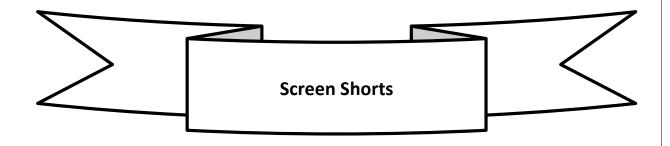
TABLE 9 Offer & Sales
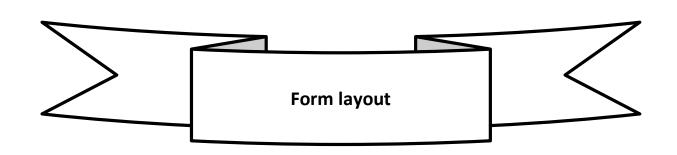
No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int	-	Primary Key	Cart Id
2	Name	Varchar	20	Not null	Sale Name
3	StartDate	Datetimeoffeset	-	Not null	Sale startdate
4	End Date	Datetimeoffeset	-	Not null	Sale end date
5	CreatedDateTime	Datetimeoffeset	-	Not null	Created Date Time
6	CreatedBy	Int	-	Not null	Created By
7	UpdatedDateTime	Datetimeoffeset	-	Null	Updated Date Time
8	UpdatedBy	Int	-	Null	Updated By

TABLE 10 ProductMapping
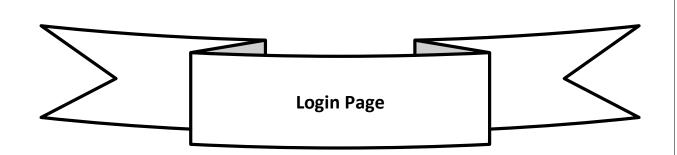
No	FieldName	Datatype	Size	Constraint	Description
1	Id	Int		Primary Key	Mapping Id
2	SaleId	Int	-	Foreign key	Sale id
3	ProductId	Int	-	Foreign key	Sale on which product
4	CreatedDatetTime	Datetimeoffeset	-	not null	Created Date Time
5	CreatedBy	Int	-	not null	Created By
6	UpdatedDateTime	Datetimeoffeset	-	null	Updated Date Time
7	UpdatedBy	Int	-	null	Updated by

Screen Shorts

Form layout

ADMIN PANEL

Login Page

Dashboard

Order List

Customer List

Product List

Add Product

Update Product

Category List

Add Category

Update Category

Brand List

Add Brand

Update Brand

Sale List

Add Sale

Update Sale

Form Layout

User Panel

Register Page

Login Page

Home Page

Home Product

Headphones   Mobile Tablets   CPU Heat Pipes   Smart Watch   Bluetooth

Free Delivery Orders from all item	**Return & Refund** Money back guarantee	**Member Discount** Onevery order over $140.00	**Support 24/7** Contact us 24 hours a day

Women's Clothing

Hoodie ★★★★★ 4.5 ₹799	Hoodie ★★★★★ 4.5 ₹899 ₹854.05	Hoodie ★★★★★ 4.5 ₹1,599 ₹1,439.1	Long Shirt ★★★★★ 4.5 ₹999	Winter T-Shirt ★★★★★ 4.5 ₹2,500 ₹2,250

Search Page

View Product Page

Whish List Page

📞 (+91) 9510101257   ✉mansurifaizan315@gmail.com

Shofy   Search for products...   🔍   ♥7   🛒5

Home Blog Contact Myorder   👤   ⏻

My wishlist

Product Name		Unit Price	Stock Status		
	Long Shirt	₹999	In Stock	Add to Cart	🗑
	Long Sleeve Cotton Tshirt	₹2,500	In Stock	Add to Cart	🗑
	Winter T-Shirt	₹2,500	In Stock	Add to Cart	🗑
	Nyka Lipstick	₹500	In Stock	Add to Cart	🗑

Cart Page

My Order Page

Profile Page

(+91) 9510101257   mansurifaizan315@gmail.com

Shofy

Search for products... [🔍]

♥ 4   🛒 5

Home   Blog   Contact   Myorder   👤   ⏻

Profile Image	👤
First Name	Faizan
Last Name	Mansuri
Address	Ajit Mil, Rakhia
Phone	9510101257
Email	mansurifaiz@gmail.com
Gender	● Male ○ Female ○ Other
BirthDay	mm/dd/yyyy

Nov 29, 2023 | Date Of Join

[Update]

Contact Page

Error Page

CONCLUSION
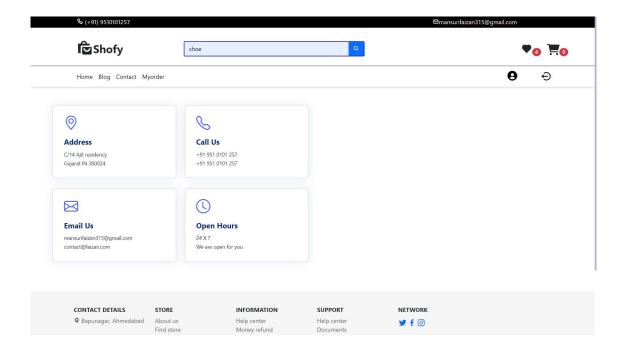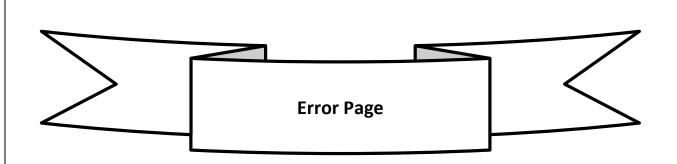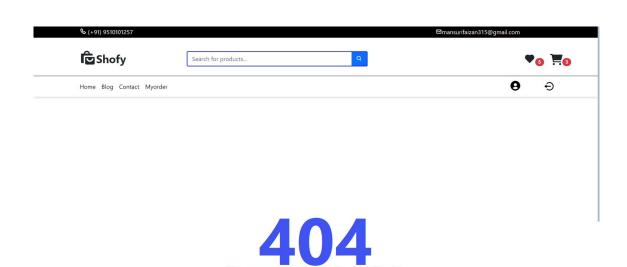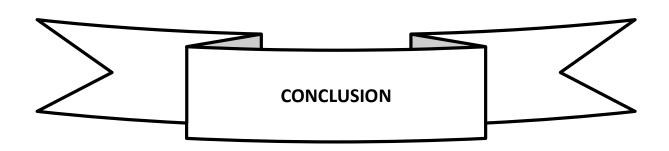
➢ The Project has been developed by us through the knowledge from the classes, faculties, through the reference books and through the internal and external source that helped us to gain the knowledge regarding the completation of the project.

➢ We would like to thank our project mentor and the organization for all their support and belief for the completation of the project.

➢ This system is Web Application which provides **E-commerce Shopping System**

Thank you!