Online Shopping Website

A mini Project Report submitted in partial fulfillment of the requirements

for the award of the degree of

Bachelor of Technology

In

Computer Science and Engineering

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DECLARATION

I hereby declare that the work which is being presented in the Mini Project **"Online Shopping Website"** in impartial fulfillment of the requirements for Mini Project-II viva voce, is an authentic record of our own work carried under the supervision of "Mr. Pankaj Kapoor".

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Thanks,
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ABSTRACT

Online Shopping Website is an online shopping application which will be mainly used for the selling of electronic gadgets (i.e,variety of smartphones,dresses,electronic gadgets,etc.).Nowadays it has become difficult to find an e-commerce site that sells smartphones and other items.In this application,as soon as the user enters the website,he will see the items of the store.This index page is divided into three parts namely, login page ,signup page,aboutus page and contactus page,wishlist page,modify details page,etc.Information, My Account and Contact Us are text but beneath them all are links except the number below the contact us. Login link below the My Account will again trigger the modal.
On the signup page, new users can register using the 'signup' form and create accounts, while existing users can login using the 'login' modal.The functionality of the form comprises of form validation and form injection In order that the data entered by any user is considered as a valid input. Each user on the website will be uniquely identified by his email id, so we must ensure that no two users have the same email ids.If the user is logged in, he can go to the home page, the confirm page, the success page or the settings page. When he/she isn't logged in and he tries to navigate to the above pages, he/she if redirected to the index page of the website.

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Introduction

Motivation and Overview

To create a fully functional e-commerce website that will contain variety of items of one type for the users to choose from.The landing page of the website should contain the login page,signup page and Contact page that must trigger the modal whenever the user clicks on the link.I have used form-injection which is a basic security feature that prevents the hacker from compromising the server or website.The navbar will contain cart,my wishlist and login/register options.An additional safety feature being implemented in these forms are that the passwords entered by the users are encrypted. Therefore, even if the database is compromised by a hacker, he/she cannot determine the password. For this, we will use an encryption technique in which once the user's input is validated, the data entered by him is accepted and stored in a database (MySQL is used for this purpose). The user is redirected to the home page, where he can browse and order items.

When he/she isn't logged in and he tries to navigate to the above pages, he/she if redirected to the index page of the website. In this case, clicking on the logo from any page redirects the user to the index page. In this case, clicking on the logo from any page redirects the user to the home page.

Objectives

The objectives of this project are:

- The landing page of the website should contain the login page,signup page and Contact page that must trigger the modal whenever the user clicks on the link.

- The web page must show the various items and their respective product names along with their prices.The add to cart option under each product will allow the user to select multiple items for purchase.There is an eye symbol which used to know the specifications of the product.

- We will use an encryption technique in which once the user's input is validated, the data entered by him is accepted and stored in a database (MySQL and jQuery are used for this purpose).

One additional feature is that unless the user is logged in, he can go to the home page, the confirm page, the success page or the settings page.

- The Change password form in the my profile page will use form injection to reduce security threats in case the user enters the incorrect 'Old Password' for the form validation.

- The success page informs the user that his/her order has been accepted and his items would be delivered shortly. Also, there is a link to the home page where the user can purchase more items.The user can pay the amount in various modes.

Software Requirement Analysis

PROBLEM DEFINITION

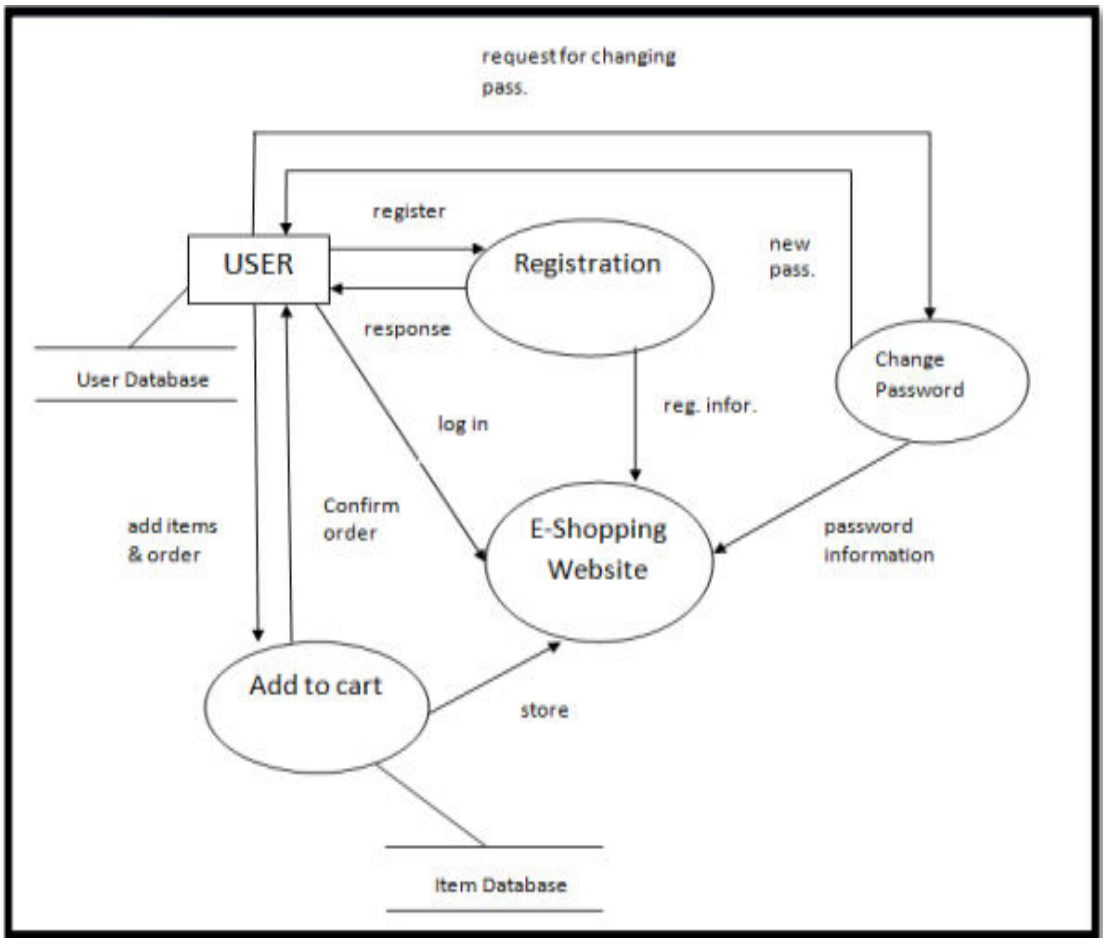
Online Shopping Website is an online shopping application which will be mainly used for the selling of electronic gadgets (i.e, variety of smartphones).This e-commerce website shows many items and types of electronic gadgets (i.e, variety of smartphones,laptops,etc.) to choose from.In this application,as soon as the user enters the website ,he will see the items of the store.The index page is divided into three parts namely, login page ,signup page,aboutus page and contactus page. Information, My Account and Contact Us are text but beneath them all are links except the number below the contact us. Login link below the My Account will again trigger the modal. Each user on the website will be uniquely identified by his email id, so we must ensure that no two users have the same email ids.Also,there are many

This project has been developed using PHP (Hypertext Preprocessor), and MySQL (Structured Query Language) as well as jQuery. For formatting we have used HTML (Hypertext Markup Language), Bootstrap and CSS (Cascading Style Sheet).

SOFTWARE DESIGN

DATA FLOW DIAGRAM:

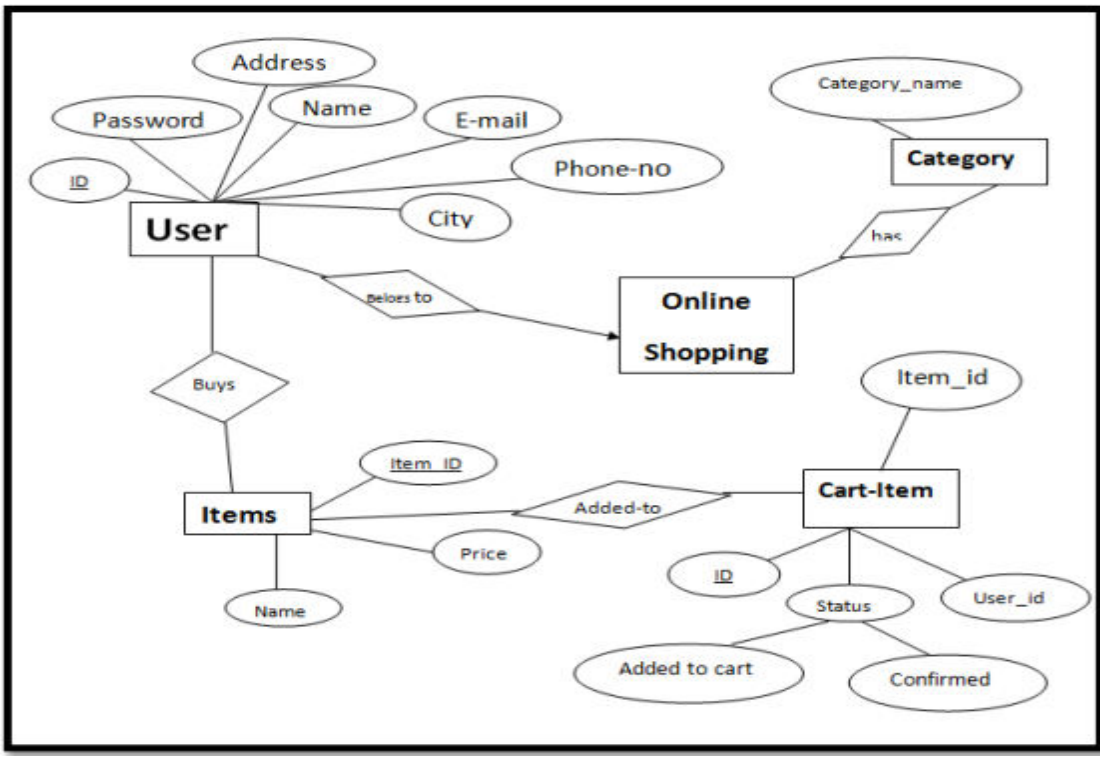
A data flow diagram (DFD) is a graphical representation of the flow of data through an information system. It shows how information is input to and output from the system, the source and destination of that information, and where that information is stored.



DFD DIAGRAM

E-R DIAGRAM:

An entity relationship model, also called entity-relationship (ER) diagram, is a graphical representation of entities and their relationships to each other, typically used in computing in regards to the organization of data within database or information systems.An entity is a piece of data about which data is stored.The stored procedure used is SQL.

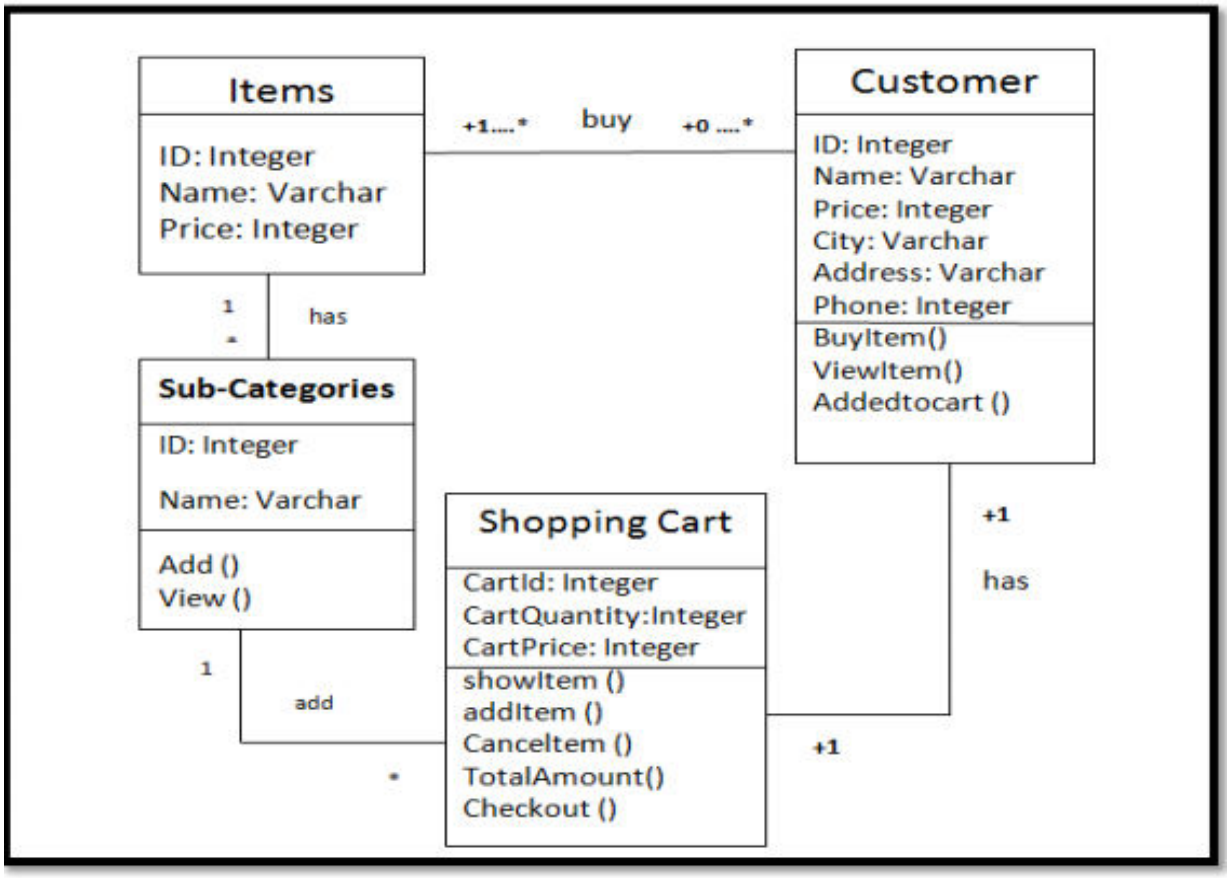


E-R DIAGRAM

Diagram shows ER diagram of Online Shopping Website. It consists of 4 entities customer, brands,products,cart and payment. Every entity has several attribute shown in ellipse. The relationship between these entities is shown in diamond box.

CLASS DIAGRAM:

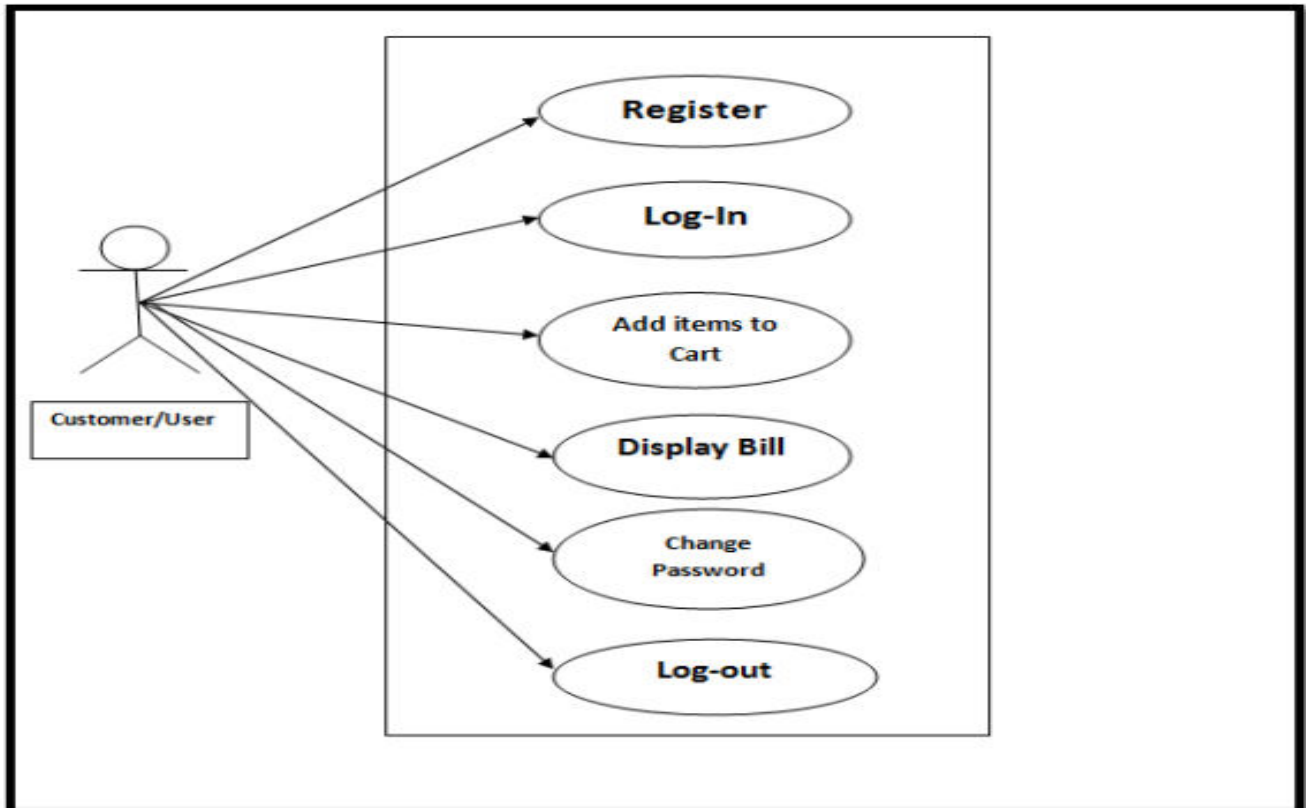
This Class diagram shows the interaction between different items.Each one of modals are interconnected with each other.



CLASS DIAGRAM

USE CASE DIAGRAM:

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. A use case diagram can identify the different types of users of a system and the different use cases and will often be accompanied by other types of diagrams as well. The use cases are represented by either circles or ellipses.



USE CASE DIAGRAM

TESTING

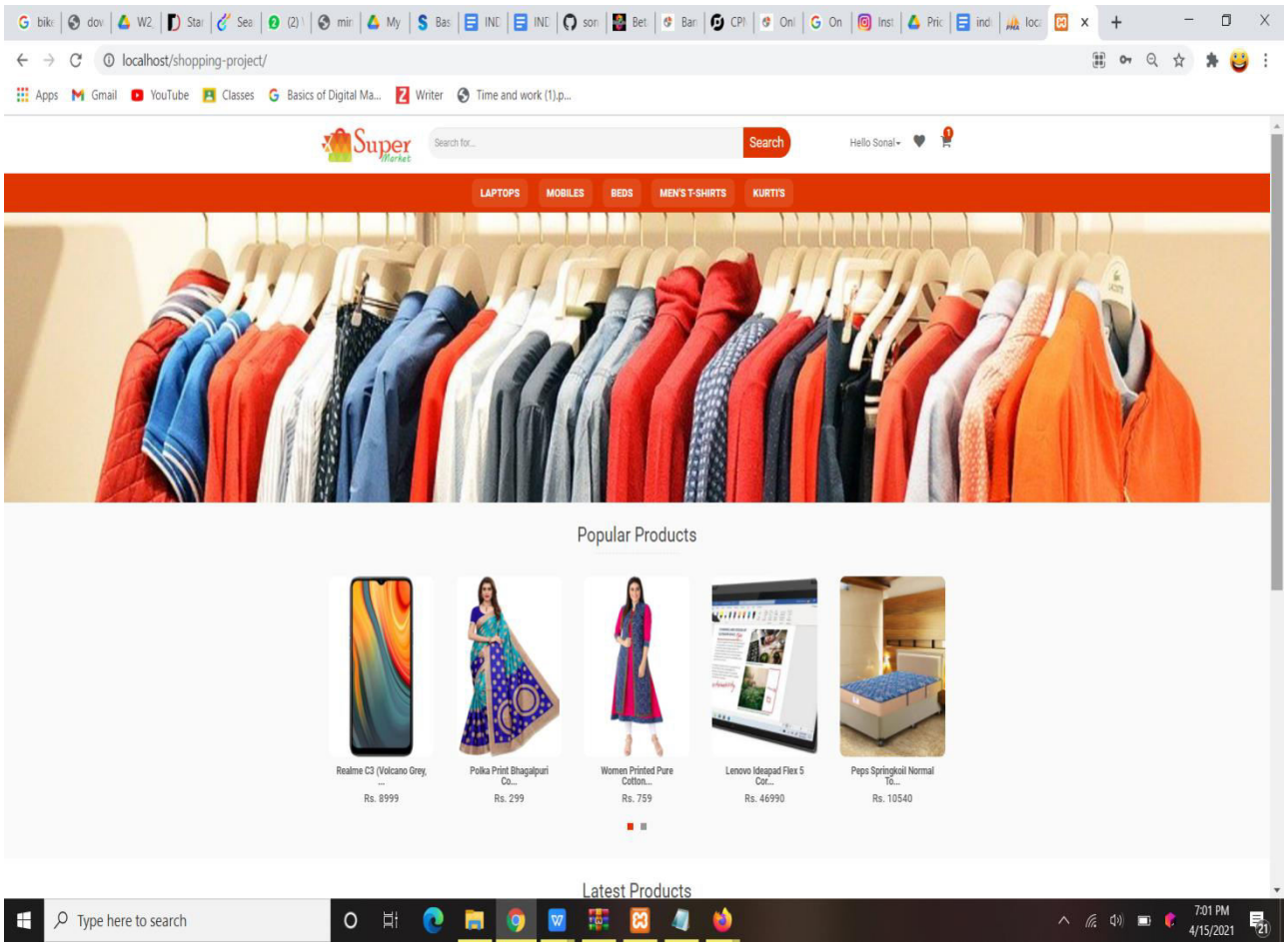
WHITE-BOX TESTING AND BLACK-BOX TESTING:

S.No.	ACTIONS	INPUTS	OUTPUTS	TEST RESULT
1	Launch Application	www.http://localhost/shopping-project/.com/	shopping-project website home	Pass
2	Enter valid e-mail and password	Email id:valid@xyz.com Password: *********	Password or email entered is incorrect	Pass

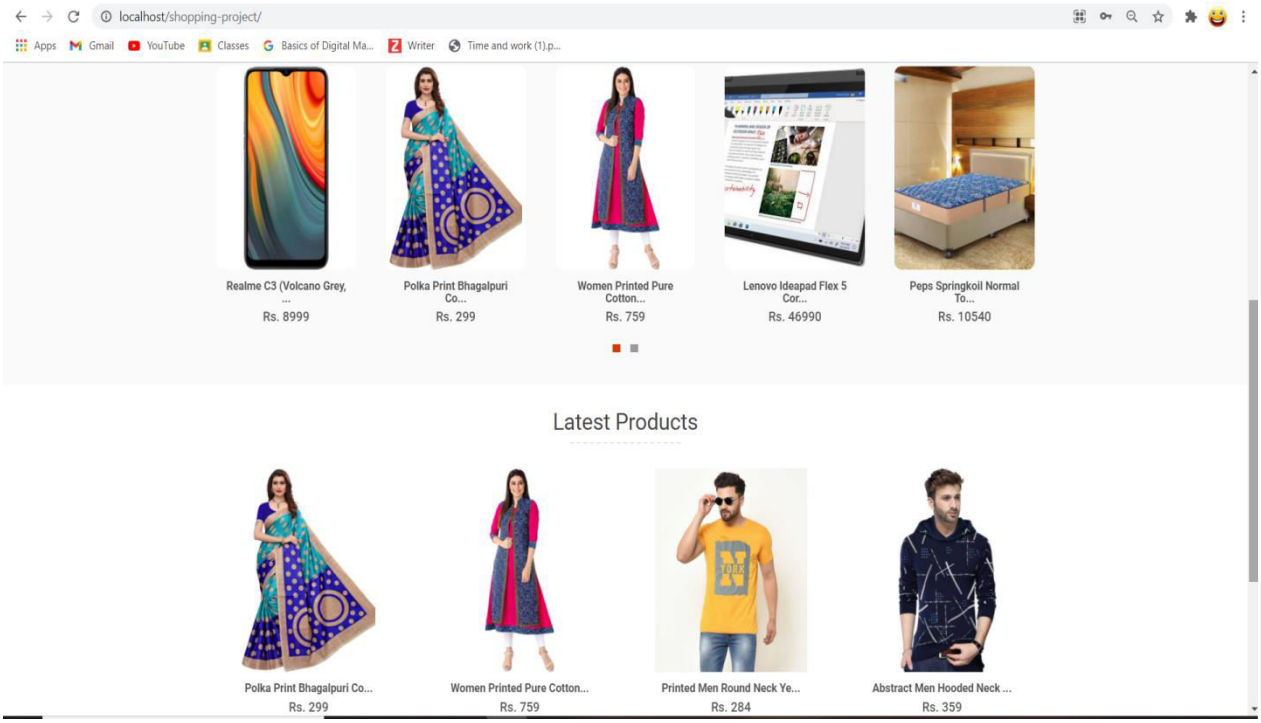
IMPLEMENTATION AND USER INTERFACE

INDEX PAGE:

The index page is usually the first page that a user visits on any website. When a user first visits the items store website, he will see the following page.

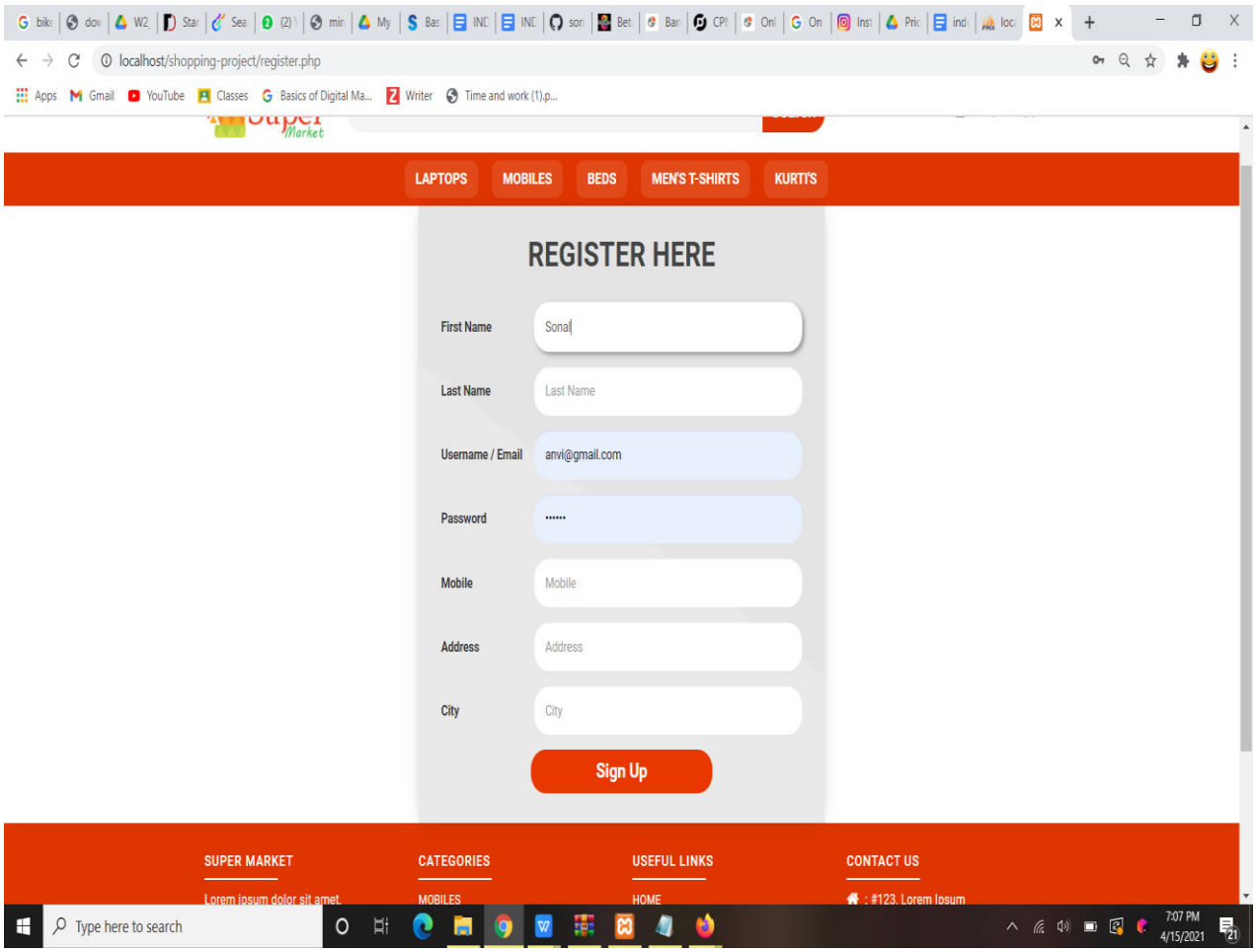


On successfully signing up ,the complete landing page of the website looks as follows:

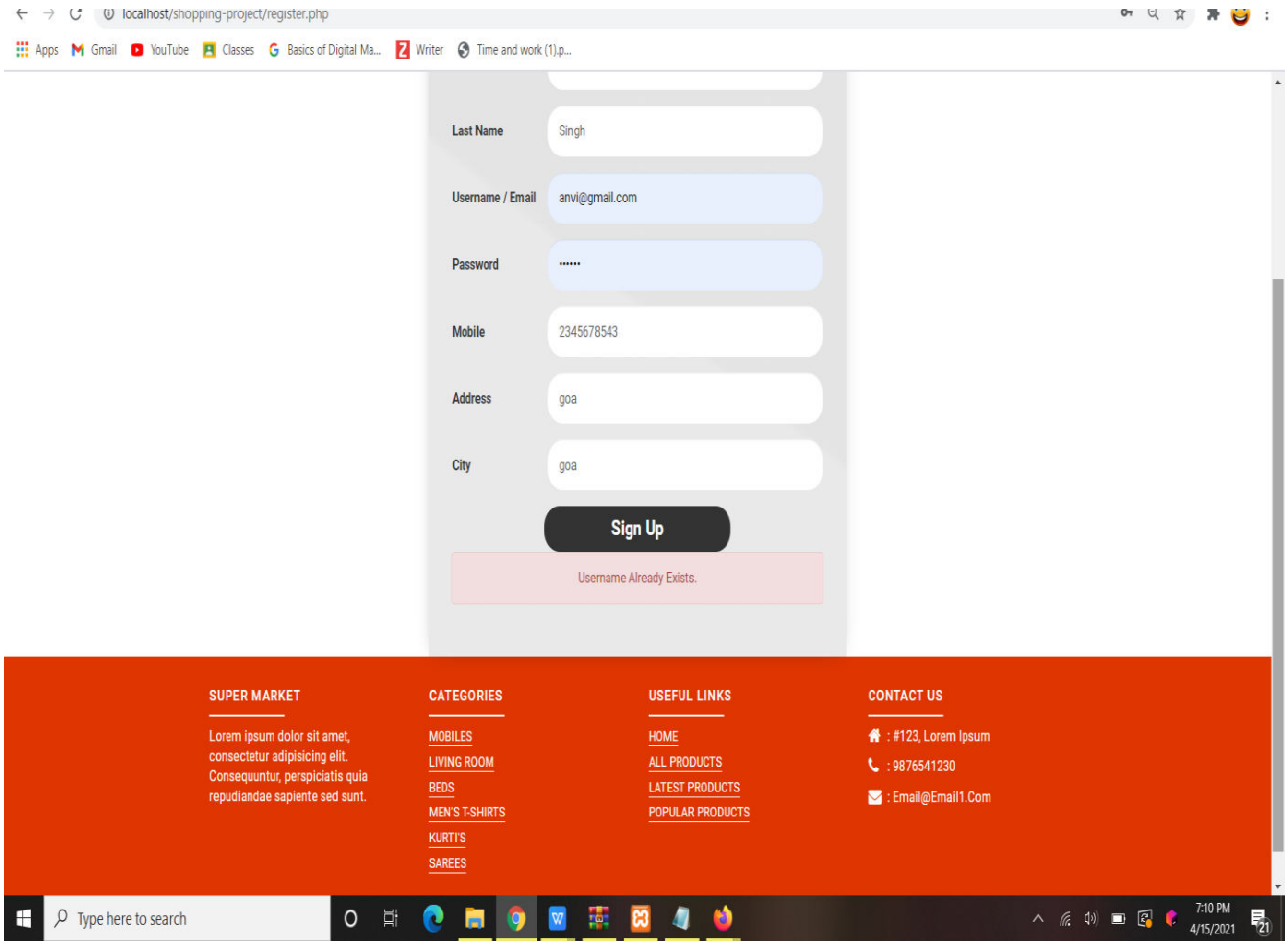


Sign up page:

The user is required to signup before he/she can explore the website.As soon as the user fills the valid details ,he/she is successful in signup.

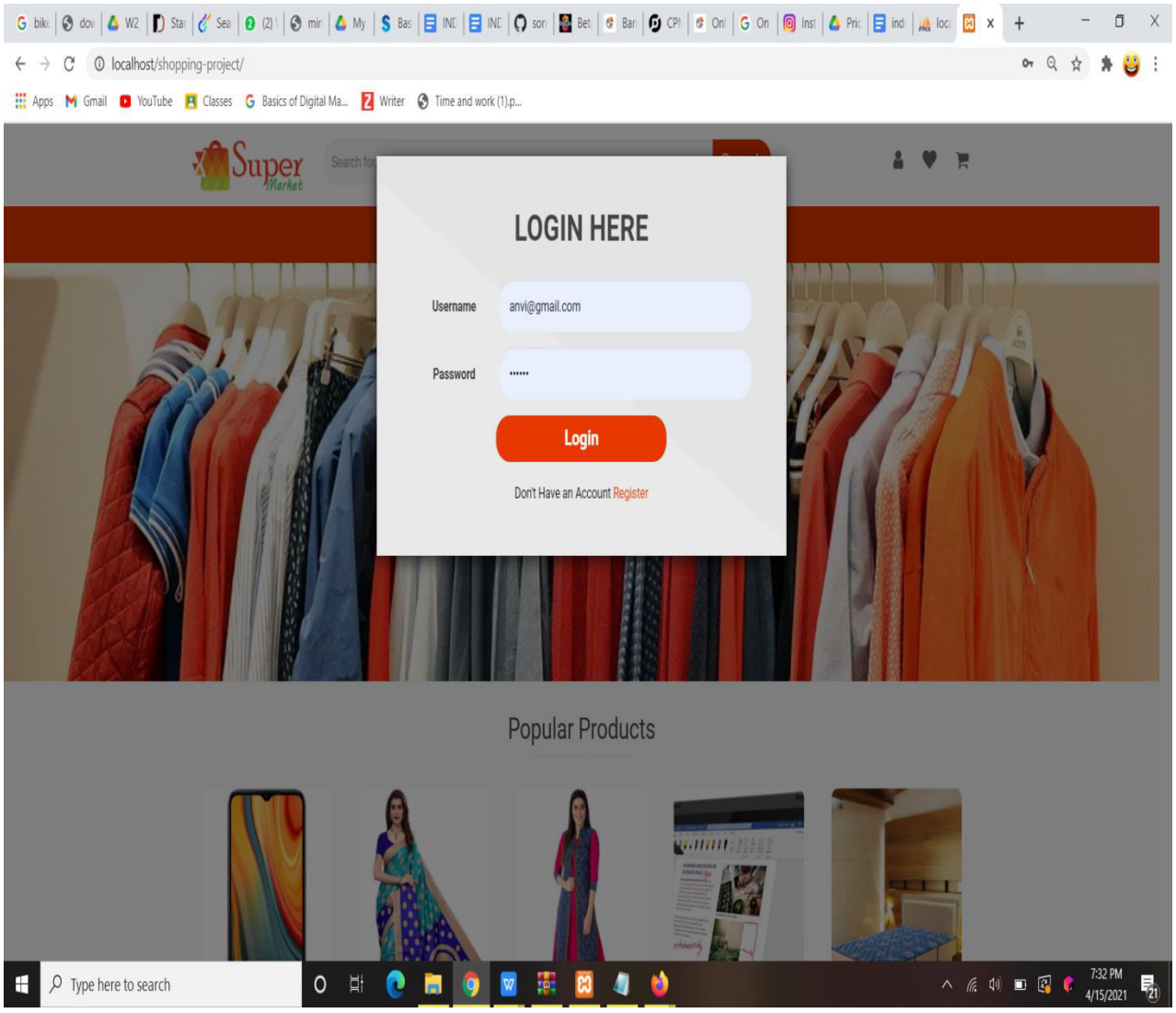


Note that in case of redundancy of data ,following page is displayed -



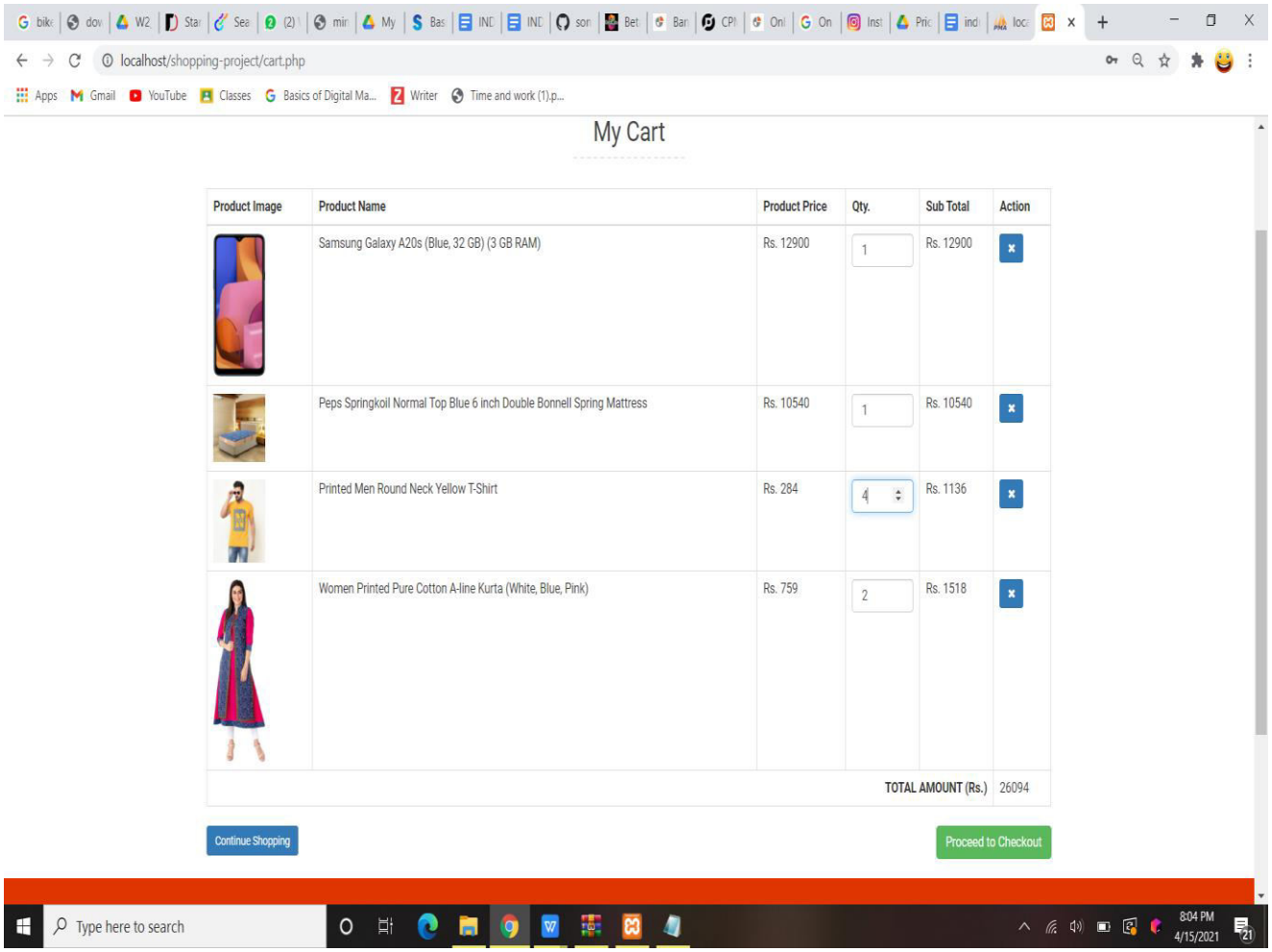
Login page :

The user can login into this website using his credentials and explore the website.



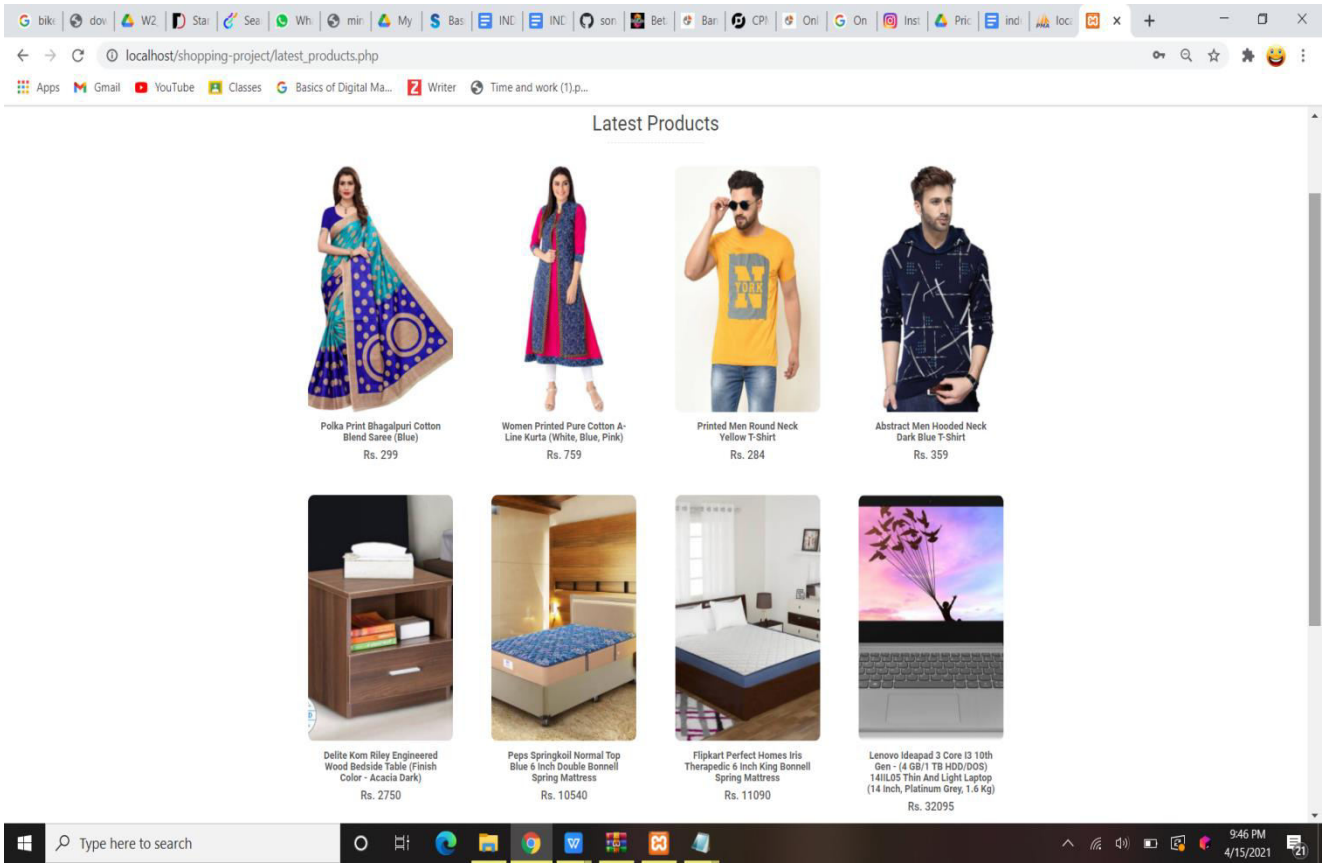
My Cart page:

This page will show list of all the items that the user has selected to purchase.



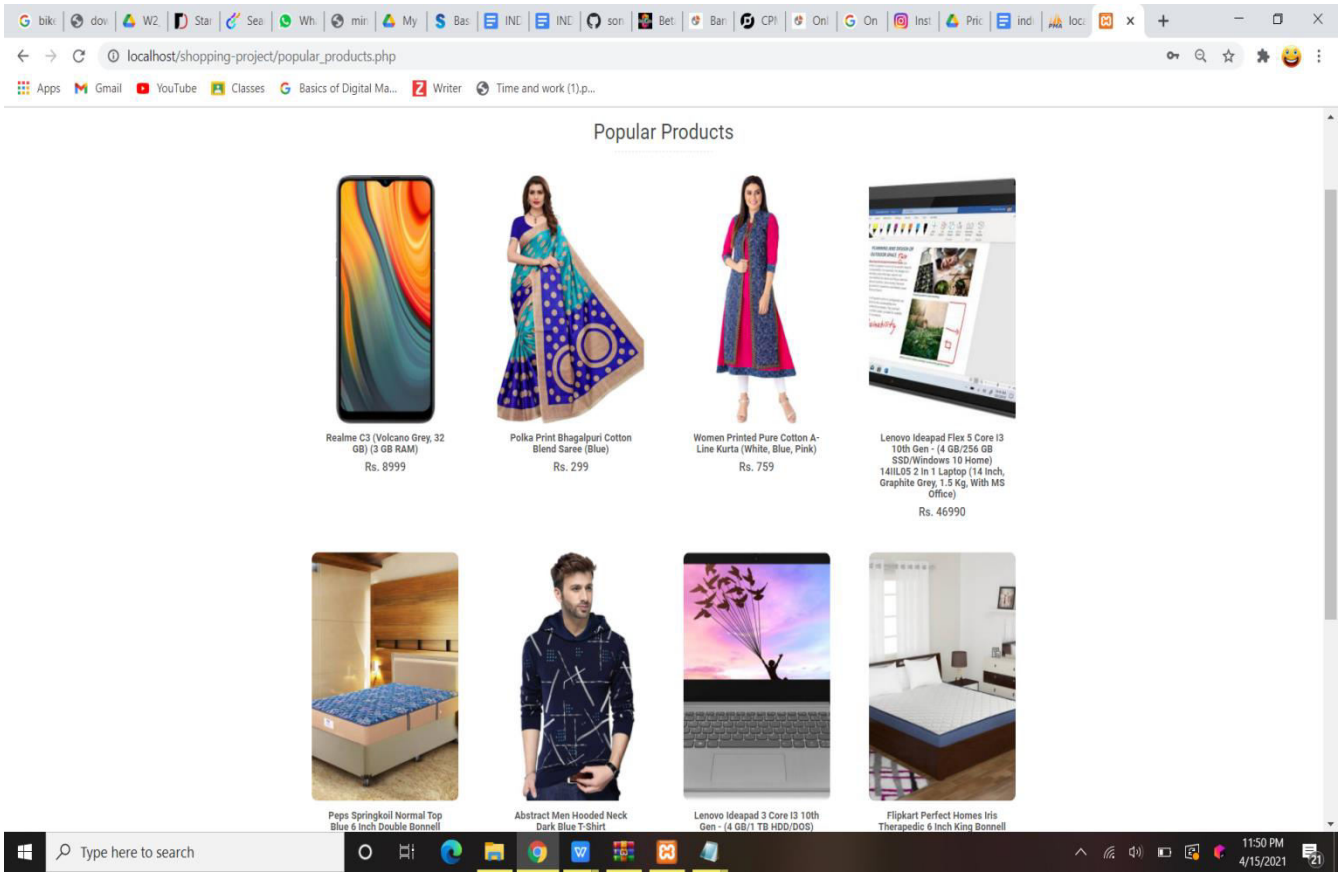
Latest products page:

This page shows all the latest products and arrivals of this store with many categories such as dresses for both females and males,electronic gadgets,cushions,etc



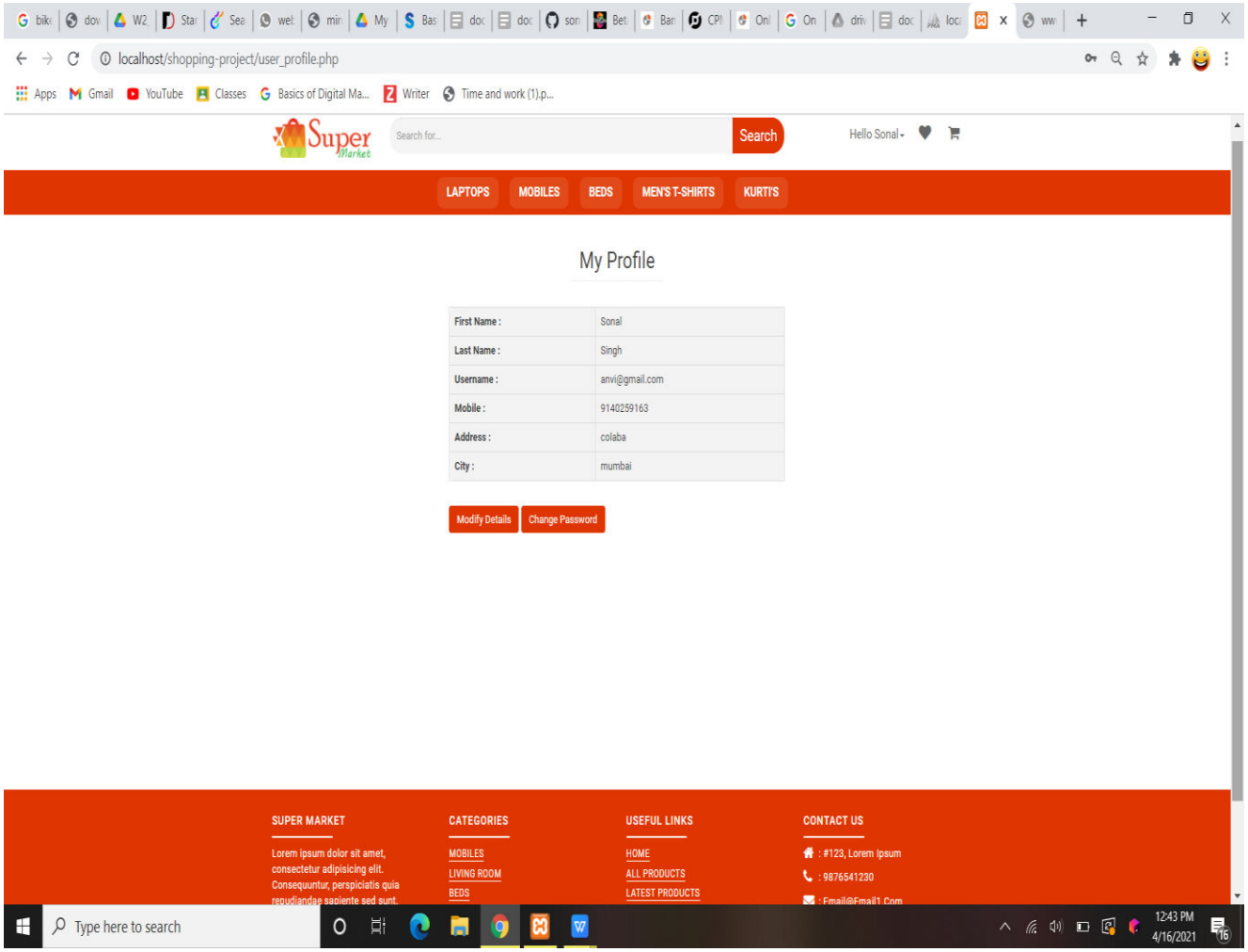
Popular products page:

This page gives the user some suggestions from the popular products while he/she is buying the product.



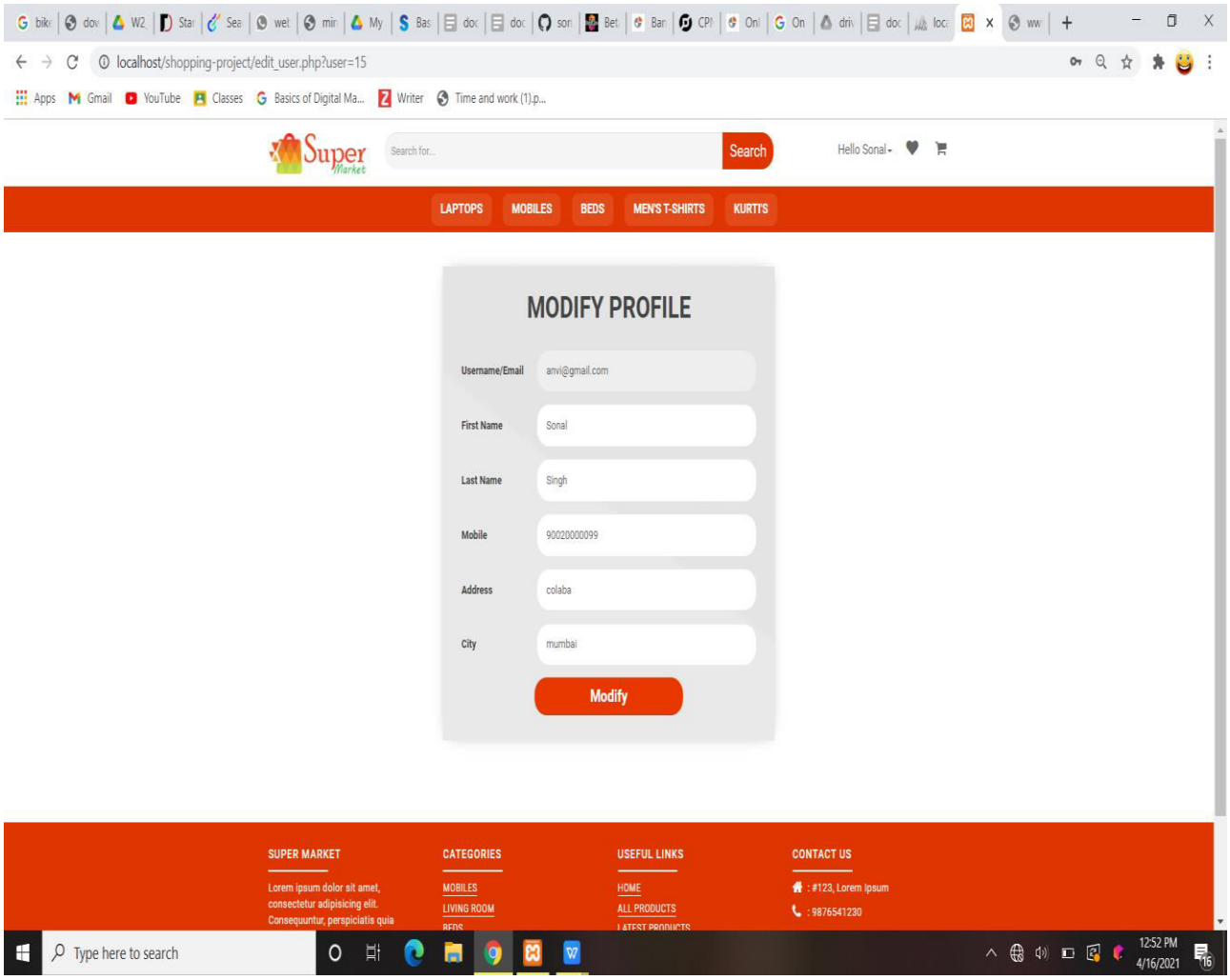
My Profile page :

This page shows the personal details of the user .It contains Modify Details and Change Password options which can be used to change the confidential information in the user's profile and change the password respectively.



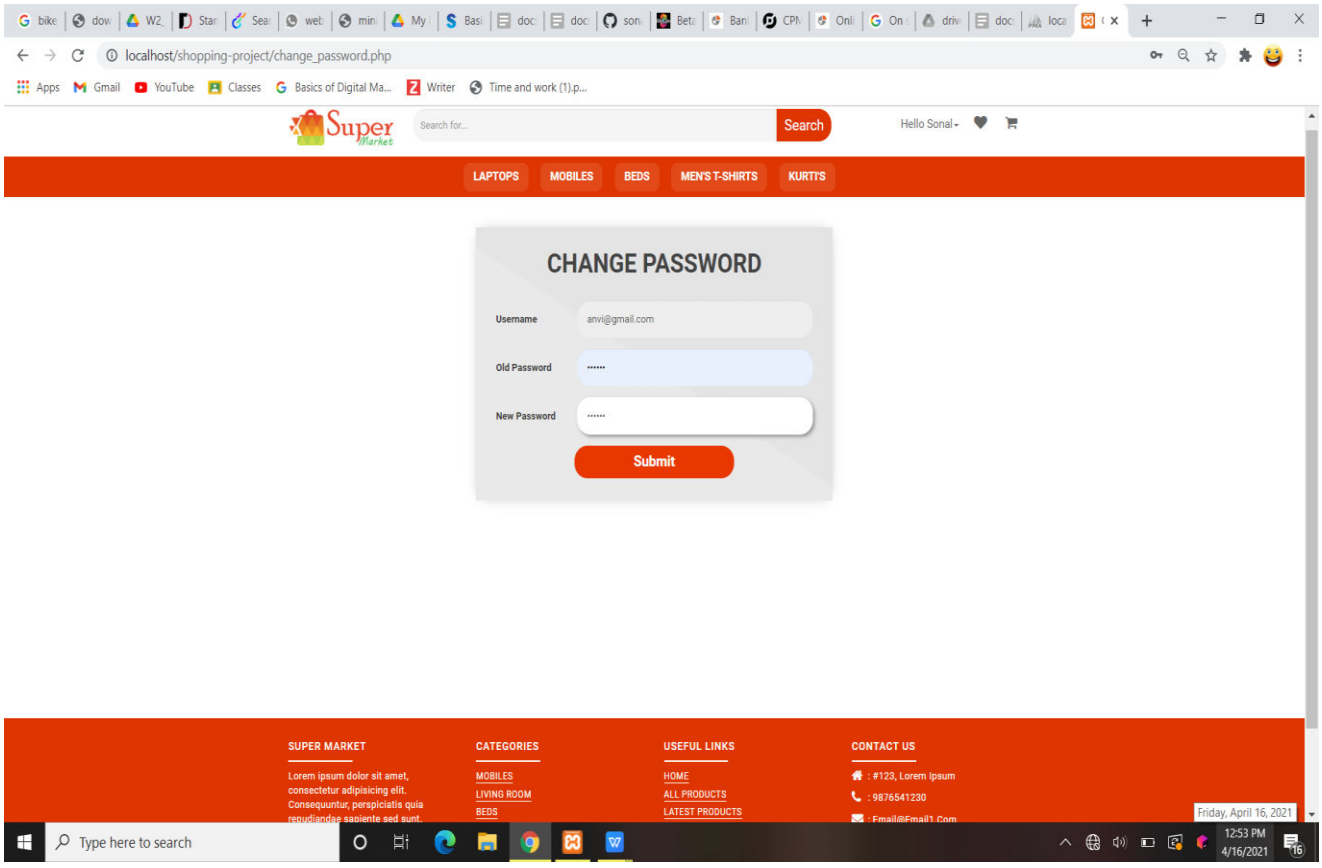
Modify Details page:

This page contains the fields to change the information in user's profile.



Change Password page:

This page shows the fields to change the password.



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2. CSS Tutorial-W3School: https://www.w3schools.com>CSS