MINI PROJECT

(2020-21)

"TechMart-Shopping"

Project Report

Institute of Engineering & Technology

Submitted By -

Swapnil Sharma (191500838)

Shivansh Mishra (181500773)

Adarsh Trivedi (181500050)

Shivangi Gupta (181500767)

Under the Supervision Of

Mr. Mandeep Singh

Technical Trainer

Department of Computer Engineering & Applications

Department of Computer Engineering and Applications

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road, Chaumuha, Mathura – 281406 U.P (India)

Declaration

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project **"TechMart-Shopping"** Web Application, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of **Mr. Mandeep Singh, Technical Trainer, Dept. of CEA,GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign: *Swapnil Sharma*

Name of Candidate: Swapnil Sharma

University Roll No.:191500838

Sign: *Shivansh Mishra*

Name of Candidate: Shivansh Mishra

University Roll No.:191500773

Sign: *Adarsh Trivedi*

Name of Candidate: Adarsh Trivedi

University Roll No.:191500050

Sign: *Shivangi Gupta*

Name of Candidate: Shivangi Gupta

University Roll No.:191500767

Department of Computer Engineering and Applications

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road, Chaumuha, Mathura – 281406 U.P (India)

Certificate

This is to certify that the project entitled "TechMart Shopping", carried out in Mini Project – I Lab, is a bonafide work by Swapnil Sharma, Shivansh Mishra, Adarsh Trivedi, and Shivangi Gupta; is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Signature of Supervisor:

Name of Supervisor: Mr. MandeepSingh

Date:

Department of Computer Engineering and Applications

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road, Chaumuha, Mathura – 281406 U.P (India)

ACKNOWLEDGEMENT

We would like to express our thanks to GLA University for giving us the teacher Mr. Mandeep Singh, our technical trainer, and supervisor, by presenting the allocated project paper report in this very easy and formal manner.

He has been assisting us with this project from the beginning. He gave us the project's roadmap, which included basic instructions on how to work on the project. He has been holding frequent meetings to check on the project's development and has provided us with project resources. We would not have been able to finish our job without his assistance.

In the end, we would like to express our gratitude to our parents for assisting us in taking advantage of this training opportunity and my coworkers for helping me in locating resources throughout the course.

Thanking You

Sign: *Swapnil Sharma*
Name of Candidate: Swapnil Sharma
University Roll No.:191500838

Sign: *Shivansh Mishra*
Name of Candidate: Shivansh Mishra
University Roll No.:191500773

Sign: *Adarsh Trivedi*
Name of Candidate: Adarsh Trivedi
University Roll No.:191500050

Sign: *Shivangi Gupta*
Name of Candidate: Shivangi Gupta
University Roll No.:191500767

ABSTRACT

In this project, we developed a web-based application, an E-Commerce website which we have named TechMart Shopping. The objective of this website is to provide us with a place to recommend and display the products we are using in our daily life. All the users will have to be an option to create a separate individual account on this website which will be done with the proper email/mobile number and password. Anyone can see any product and get all the information about that product very quickly.

There is a search bar button in the header section with this user can easily able to search and get the information of desired product, Apart from searching rating of the product is available in the description of that items. The website is suitable in the present scenario as the everything is being digitalized then why not the e-commerce shopping system.

The website also has a complete User Interface attached to the firebase, a perfect login system with an email id or mobile number and password, and a forget password too. If any user is facing an issue on the website, there is Ai based chatbot available on the website; throughout this, the user can take help and find the proper solution.

CONTENTS

LIST OF FIGURES

CHAPTER-1

INTRODUCTION

1.1 CONTEXT

This web-based application “TechMart Shopping” was presented in partial fulfilment of the criteria for the granting of a Bachelor of Technology in Computer Science and Engineering at GLA University, Mathura, under Mr. Mandeep Singh's supervision. This is a mid-duration of the project and it was almost complete some of the part of backend and other special features are left to include in it. Till this each and everything has been done with considering all the guidlines.

1.2 MOTIVATION

We've just understood the value of virtual shopping and the necessity of having our desired product information online. And also considering the trend which has been continuously increasing of online shopping, every person wants their basic routine product at our fingertips, so through this project, it can be done.

1.3 OBJECTIVE

The main goal of this project "TechMart Shopping" is to develop an online shopping platform with a large number of products which are categorized as Home Appliances, Clothes, Electronics, and Decoration to get to know the proper information of the product or one desires to buy. There will be the feature to search for any product entire the website which can fetch and provide the one chooses to buy using any keyword, such as the brand's name, or the sub-category's name. The goal of the website was to provide a way to the customers and users to get the daily need products info online.

1.4 EXISTING SYSTEM

TechMart's primary function will be to provide a platform for buying, selling, and distributing commodities, products, and services over the Internet and other networks. Even though the firm is only open during the day, it will allow a customer to compare a product with that of another vendor. The e-commerce site is open seven days a week, 24 hours a day.

TechMart has various advantages over regular retailers, including:
negotiating a product's price with other e-commerce websites and returning any things that the customer dislikes.

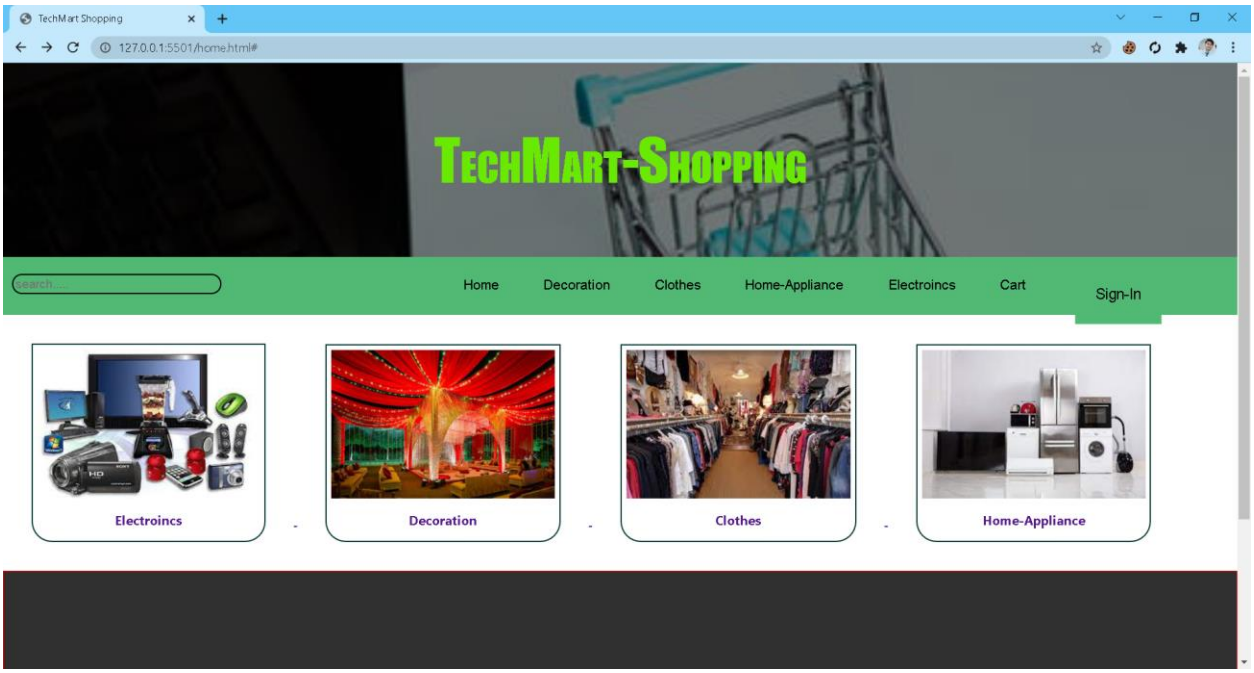

Figure-1: Existing System

1.5 SOURCES

The source of our project (including all the project work, documentations and presentations) will is available at the following link https://github.com/MiniProject20121/Web_Page.

CHAPTER -2

SOFTWARE REQUIREMENT ANALYSIS

2.1 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement:

- Processor : Intel i3
- Operating System : Windows 7
- RAM : 2 GB
- Hardware Devices : Laptop/PC, Mouse, Keyboard, Internet-Connection
- Hard disk : 15-20 GB of Free Space
- Display : Requires 1366 by 768 resolution

Software Requirements:

- Technology Implemented : Firebase, Linux Server, Xammp
- Language Used : HTML, CSS, JS, SQL, React PHP, Python,
- Database : Firebase
- User Interface Design : Visual Studio Code, GitHub
- Web Browser : Chrome, Edge, Firefox.

2.2 MODULES AND FUNCTIONALITIES

- **Home Screen**: The first page with which the user interacts will be this screen containing the logo and the web name . This is our page with having all other features.

- **Sign In**: This page is for those users who have already registered themselves on the website and have a username and a password. There is also a way on this page for the new users to register themselves which will take them to the Sign Up page.

- **Sign Up Page:** This is page is solely designed for the new users of the wesbite who are willing to register themselves. This page takes input of the various details of the user and stores it in the database, later helping the user to login into the account with credentials they have provided.

- **Lost your Password Page:** This page comes into picture when one of the user forgets the login credentials. In this case this page asks for the email-id with which the user has already registered. The app will check if there is any entry in its database with the id and if there a mail will be sent to the same id for recovering the credentials and notification will be given to the user.

- **Cart**: This is the another page which displayed on the main Home Page through this user can their Added to Cart item for purchasing and remembering purpose.
- **Decoration:** This tab is basically explained by name itself by this user can go through with the decoration product very easily.
- **Cloth**: This tab is basically a product tab by this user can go through with the cloths product info very easily.
- **Home Appliances:** Initially the page is empty, but when the users search for a book and like it then one can add it to the favourites section. This place is a user's personal space to store any book he likes or want to mark.
- **Electronics**: This page will contain all the user details that the user entered while creating the account on the app. The user can update and make changes to all this information as desired.

2.3 TechMart Shopping A Web Application

We, the team Tech Mart Shopping taking all the pros and cons of all types of e-commerce sites, decided to create a suitable and reliable platform to suggest and provide the most affordable product in terms of price, quality, and care services. Currently, we are working with Clothes, Electronics, Decoration, and Home appliances and wish to move forward in the upcoming days.

With all these, the website is prepared with the proper security features, and we always try to maintain the customers' privacy. The UI and all other functions are straightforward and reliable to use. TechMart is mainly focused on the easiness and need of the users.

CHAPTER-3

TECHNOLOGY USED

3.1 HTML

Tim Berners-Lee, Robert Cailliau, and others designed HTML for the first time in 1989. Hyper Text Markup Language is the abbreviation for Hyper Text Markup Language.

The term "hypertext" refers to a document that has links that allow the reader to navigate to different parts of the page or to another document entirely. HTML5 is the most recent version.

A Markup Language is a mechanism for computers to communicate with one another in order to govern how text is processed and displayed. Tags and attributes are used in HTML to do this.

CSS

Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.

CSS is among the core languages of the open web and is standardized across Web browsers according to W3C specifications. Previously, development of various parts of CSS specification was done synchronously, which allowed versioning of the latest recommendations. You might have heard about CSS1, CSS2.1, CSS3. However, CSS4 has never become an official version.

JS

JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles. Read more about JavaScript.

This section is dedicated to the JavaScript language itself, and not the parts that are specific to Web pages or other host environments. For information about API specifics to Web pages, please see Web APIs and DOM.

Firebase

Firebase is a Backend-as-a-Service (Baas). It provides developers with a variety of tools and services to help them develop quality website, grow their user base, and earn profit. It is built on Google's infrastructure. Firebase is categorized as a NoSQL database program, which stores data in JSON-like documents. Firebase has three core services: a real-time database, user authentication and hosting. With the Firebase, you can use these services to create connection without writing any server code.

PHP

The PHP Hypertext Preprocessor (PHP) is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications. This tutorial helps you to build your base with PHP.

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain.

Python

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library.

Guido van Rossum began working on Python in the late 1980s, as a successor to the ABC programming language, and first released it in 1991 as Python 0.9.0. Python 2.0 was released in 2000 and introduced new features, such as list comprehensions and a cycle-detecting garbage collection system (in addition to reference counting). Python 3.0 was released in 2008 and was a major revision of the language that is not completely backward-compatible. Python 2 was discontinued with version 2.7.18 in 2020.

3.2 User Interface

- **Home Page**

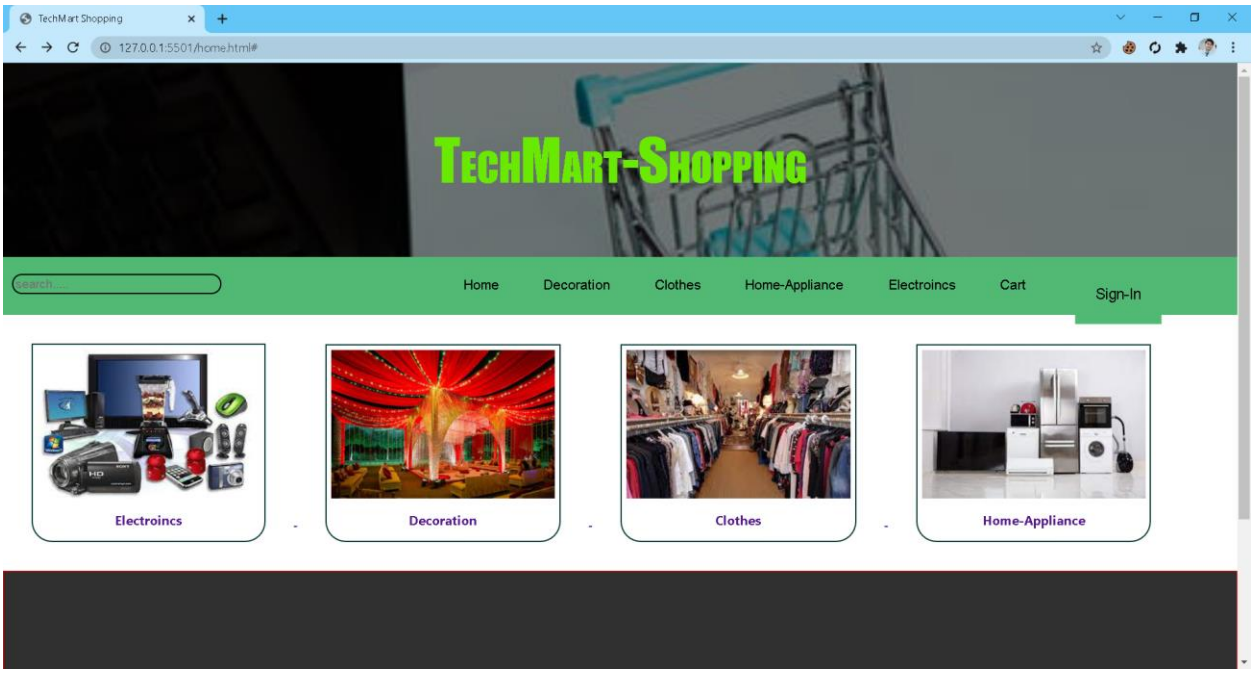

Figure-2: Home Page

- **Sign In Page**

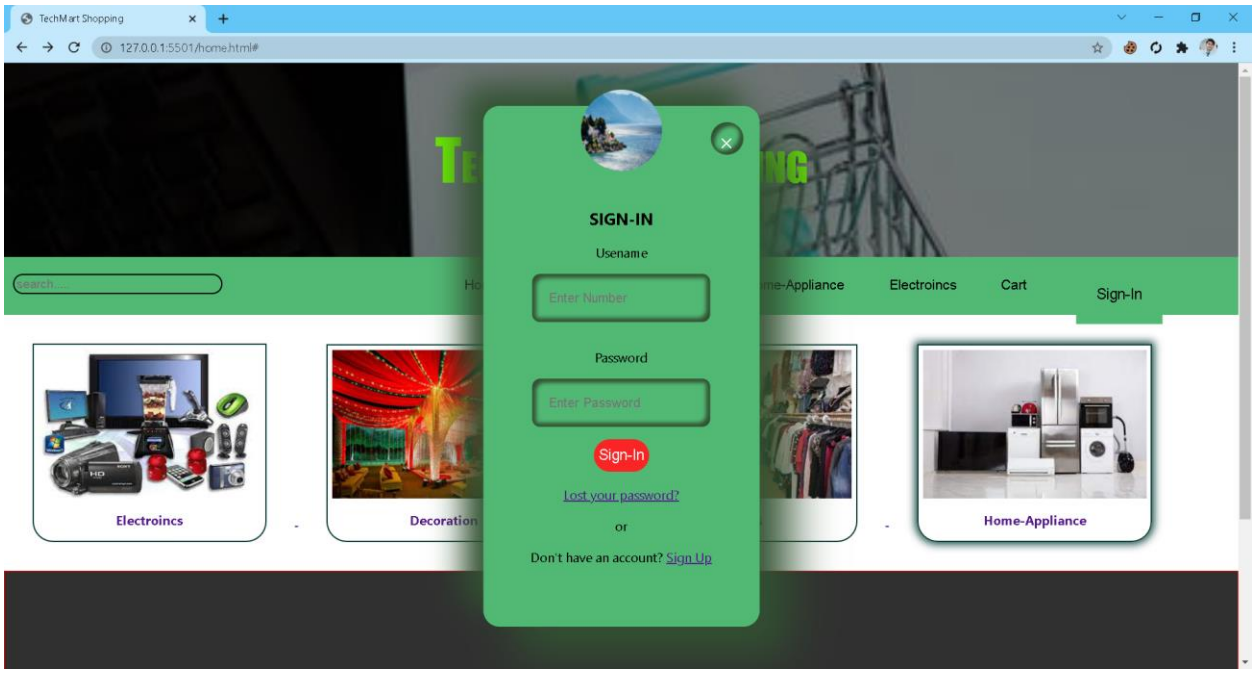

Figure-3: Sign In Page

- **Sign Up Page**

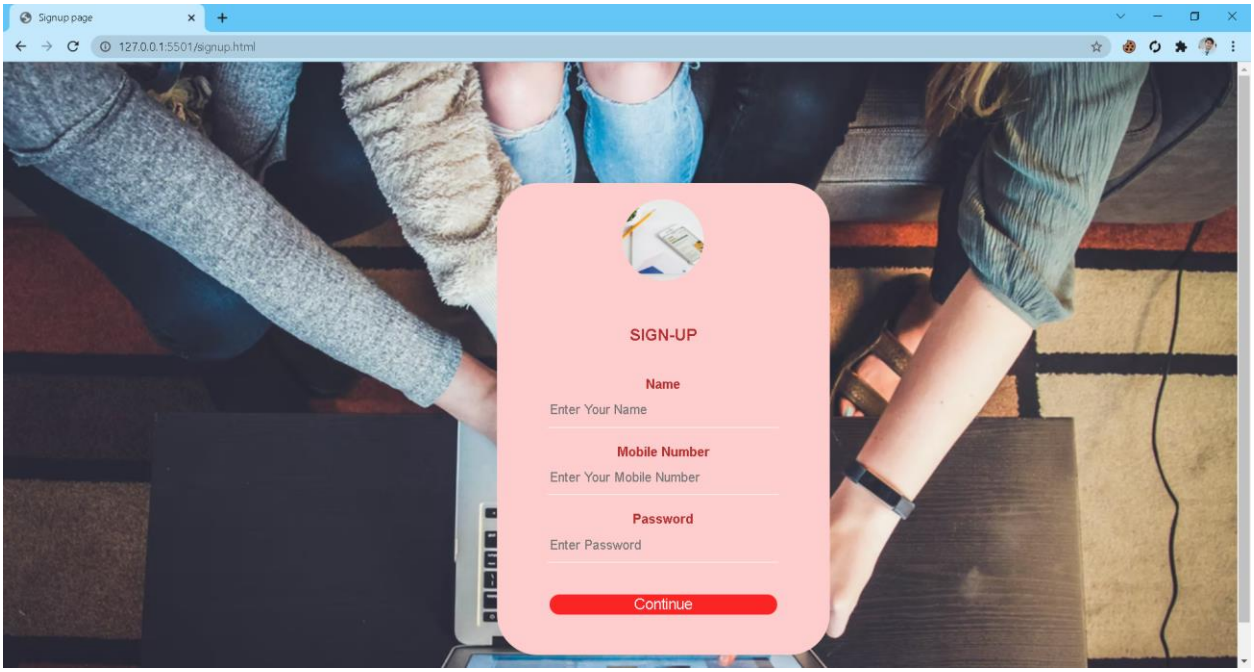

Figure-4: Sign Up Page

- **Product Page**

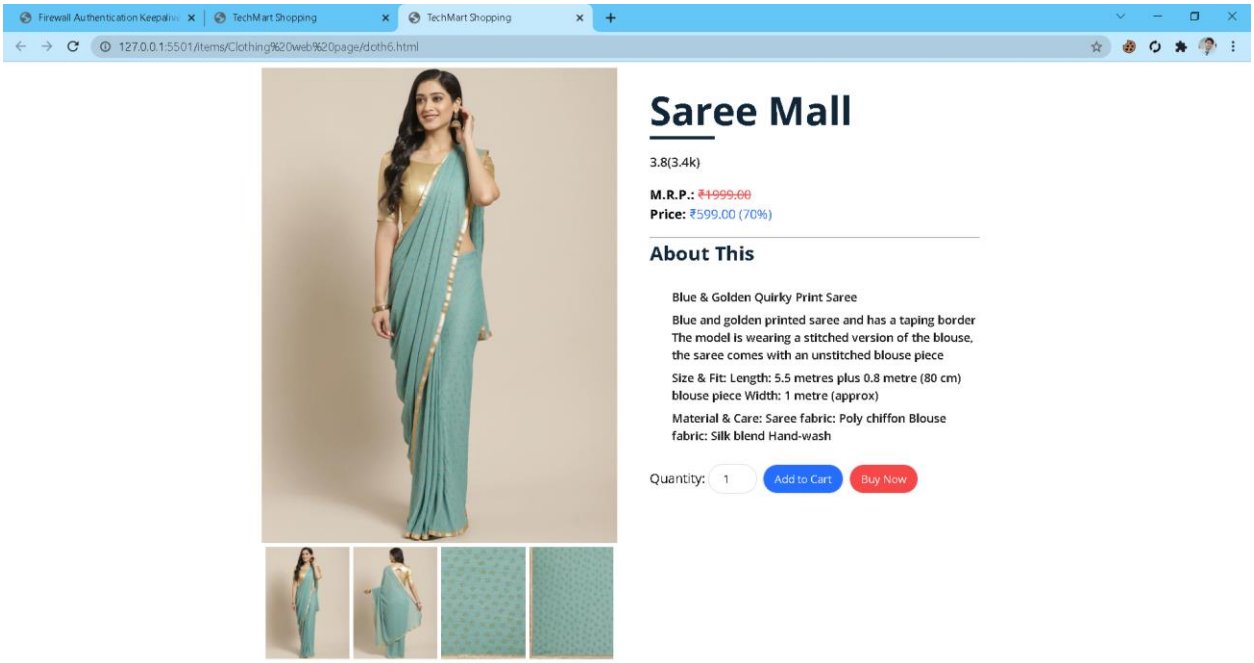

Figure-5: Product Page

CHAPTER -4
CONCLUSION

TechMart is an online store with a global presence. It provides a variety of product choices and provides a great user experience and splendid customer service. Besides putting prominence to personalization, TechMart also monitors user browsing and purchase patterns in order to offer them recommended products for future purchases. It operates in India as per the market place than the retailer.

With the help of the TechMart Shopping website, we provide products with reliable prices that meet all kinds of basic needs of the customers.

It helps in collecting the entire management in detail in less time. Our project's goal is to try the various computerized process of an online e-commerce system. It generates reports on products related to clothing, electronics, home appliances, and decorations, filters reports on item category, delivery address, shopping cart, customer orders, and also provides search-based suggestions.

REFERENCES

https://www.w3schools.com/html/

https://www.w3schools.com/css/default.asp

https://www.w3schools.com/js/default.asp

https://www.w3schools.com/php/default.asp

https://stackoverflow.com/