



Bachelor of Computer Applications (BCA) Programme

Minor Project Report

BCA Sem V
AY 2023-24

Project Title: CROMA STORE

by

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Project Guide by :
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Acknowledgement

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely fortunate to have got this. the completion of our minor project

work. Whatever we have done is only due to such guidance and assistance.

We would not forget to thank I/C Principal Dr. Aditi Bhatt, IQAC coordinator and trust representative Dr .Vaibhav Desai, Head of BCA Department Dr. Vimal Vaiwala and Minor Project guide Prof. Vandana Prajapati and all other Assistant professors of SDJ International College, who took keen interest on our project work and guided us all along, till the completion of our project work by providing all the necessary information for developing a good system.

We are extremely grateful to her for providing such a nice support and guidance though she had busy schedule the college dealings.

We are thankful and fortunate enough to get support and guidance from all Teaching staffs of Bachelor of Computer Application Department which helped us in successfully completing our project work. Also, we would like to extend our sinceto all the non-teaching staff of Bachelor of Computer Application Department for their timely support.

SONI ANANT R. (6377)

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Introduction

1.1 Project Summary

Project Name: Croma Store. To expand Croma's retail presence and enhance the customer shopping experience. Opening new Croma stores in strategic locations, updating existing stores, and implementing innovative technologies. A phased approach over the next 2 years.

Increase market products, offer a wide range of consumer electronics, improve customer service, and boost online sales. Focus on product diversification, modern store designs, and omnichannel integration. Incorporate eco-friendly practices and promote responsible consumption. Implement loyalty programs, tech workshops, and personalized recommendations. Strengthen Croma's position in the electronics retail market and drive sustainable growth in sales and customer satisfaction.

1.2 Project Profile Project Title:

Definition :	Croma Store will Provides a platform for users to buying an electronic products.
Developed For :	SDJ International College, Vesu, Surat
Project Guide(s):	Prof. Vandana Prajapati
Front End:	PHP
Scripting language :	PHP, CSS, BOOTSTRAP, JAVASCRIPT
Back End :	Xampp Server
Operating System:	Microsoft Windows 11
Tools used for ERD & DFD	Sublime Text, Visual Studio, Xampp , Chrome
Submitted By	Soni Anant R. (6377)

Environment Description

2.1 Hardware and Software Requirements

Online flight booking system requires following technical specifications to run properly and efficiently.

- **SERVER SIDE:**
 - **Hardware Requirements**
Windows 11
MySQL
XAMPP
Bootstrap, CSS, Javascript.
- **CLIENT SIDE:**
 - **Hardware Requirements**
11th Gen Intel(R) Core(TM) i5-1155G7 @ 2.50GHz 2.50 GHz
8.00 GB
 - **Soft ware Requirements**
Windows 11
Browsers : Google Chrome.

2.2 Technologies Used

Front End: PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve.

Back End: MySQL

MySQL runs on virtually all platforms, including Linux, UNIX, and Windows. Although it can be used in a wide range of applications, MySQL is

most often associated with web-based applications and online publishing and is an important component of an open source enterprise stack called LAMP. LAMP is a Web development platform that uses Linux as the operating system, Apache as the Web server, MySQL as the relational database management system and PHP as the object-oriented scripting language. MySQL is an essential part of almost every open source PHP application. Good example for PHP/MySQL-based script are PHPBB.

XAMPP:

XAMPP stands for Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing purposes. Everything you need to set up a web server - server application (Apache), database (MySQL), and scripting language (PHP) - is included in a simple extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows.

Since most actual web server deployments use same components as XAMPP, it makes transitioning from a local test server to a live server is extremely easy as well. XAMPP has four primary components:

- **Apache:** Apache is the actual web server application that processes and delivers web content to a computer. Apache is the most popular web server online, powering nearly 54% of all websites.
- **MySQL:** Every web application, howsoever simple or complicated, requires a database for storing collected data. MySQL, which is open source, is the world's most popular database management system. It powers everything from hobbyist websites to professional platforms like WordPress. You can learn how to master PHP with this free MySQL database for beginner's course.
- **PHP:** PHP stands for Hypertext Preprocessor. It is a server-side scripting language that powers some of the most popular websites in the world, including WordPress and Facebook. It is open source, relatively easy to learn, and works perfectly with MySQL, making it a popular choice for web developers.

Bootstrap:

Bootstrap is a free and open-source front-end web framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. It aims to ease the development of dynamic website and web application. Bootstrap is a front end web framework, that is, an interface for the user, unlike the server-side code which resides on the "back end" or server.

Bootstrap provides a set of stylesheets that provide basic style definitions for all key HTML components. These provide a uniform, modern appearance for formatting text, tables and form elements.

• CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media.

Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications. Before CSS, nearly all presentational attributes of HTML documents were contained within the HTML markup. All font colors, background styles, element alignments, borders and sizes had to be explicitly described,

often repeatedly, within the HTML. CSS lets authors move much of that information to another file, the style sheet, resulting in considerably simpler HTML.

JavaScript:

JavaScript is a high-level, dynamic, untyped, and interpreted programming language. It has been standardized in the ECMAScript language specification. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content production; the majority of websites employ it, and all modern Web browsers support it without the need for plug-ins.

JavaScript is prototype-based with first-class functions, making it a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles.

System Analysis and Planning

3.1 Existing System and its Drawbacks

Croma stores utilize POS systems for processing transactions, managing sales, and accepting various payment methods. Croma likely has an online store integrated with its physical stores to allow customers to browse and purchase products online. Croma may use feedback and survey tools to collect customer opinions and improve services. These systems help in managing relationships with suppliers and tracking product deliveries.

- Daily updates with electronics items with daily new discounts.
- Risk of mismanagement and of data when the project is under development.
- Product Exchange>Returns, Product Protection Plans
- Financing and EMI Options, Customer Assistance
- Tech Workshops and Training
- Product Protection Plans

3.2 Feasibility Study

The feasibility of opening a Croma store or expanding an existing one depends on several factors, including market conditions, location, investment capacity, and business strategy. Here are key considerations for assessing the feasibility of a Croma store:

1. Market Demand:

Analyze the local or regional market to determine the demand for consumer electronics. Consider factors such as population size, income levels, and technology adoption rates.

2. Competition:

Evaluate the level of competition in the area. Consider the presence of other electronics retailers, both online and offline, and assess whether there is room for another player like Croma.

3. Supply Chain and Inventory Management:

Develop efficient supply chain and inventory management systems to ensure a steady supply of products and minimize carrying costs.

4. Marketing and Branding:

Develop a strong marketing and branding strategy to create awareness and attract customers. Consider digital marketing, traditional advertising, and loyalty programs.

5. Financial Projections:

Prepare financial projections, including revenue forecasts, expense estimates, and break-even analysis, to assess the store's profitability potential.

6. Risk Assessment:

Identify potential risks and challenges, such as economic fluctuations, supply chain disruptions, and changing consumer preferences, and develop mitigation strategies.

7. Customer Feedback and Engagement:

Seek feedback from potential customers and engage with the local community to understand their needs and expectations.

the feasibility of a Croma store project will depend on a thorough market analysis, strategic planning, and a well-executed business plan. Conducting feasibility studies, market research, and financial assessments are essential steps to determine whether opening or expanding a Croma store is a viable and profitable venture in a specific location.

3.3 Requirement Gathering and Analysis

Requirements gathering and analysis are crucial steps in the development or enhancement of any system or project, including one for a Croma store. Here's a structured approach to gathering and analyzing requirements for a Croma store project:

1. Technology Requirements:

Determine the technology and infrastructure requirements, including POS systems, inventory management software, security systems, and online platforms.

2. Payment and Checkout:

- Define the requirements for payment processing, including payment methods accepted and security measures.

3. Customer Experience:

- Gather requirements related to customer experience, such as product demonstrations, technical support, and staff training.

4. Performance and Scalability:

- Identify performance requirements, including peak customer loads, and scalability needs for future growth.

5. Review and Validate:

- Review the requirements with stakeholders to ensure they accurately reflect their needs and expectations.

Other Requirements:

- | | |
|---------------|---------------|
| • Security | • Portability |
| • Correctness | • Efficiency |
| • Flexibility | • Reusability |

❖ Performance requirements:**Response Time :**

Website and mobile app response time should be fast to provide a smooth online shopping experience.

Transaction Processing :

The POS system should be capable of handling a high volume of transactions during peak hours without delays or errors.

Network Reliability :

Reliable internet connectivity to ensure that POS systems, online sales, and customer communication are uninterrupted.

Data Security :

Compliance with data protection regulations, such as GDPR or CCPA.

Mobile Device Compatibility:

Ensure that the website and mobile app perform well across various devices and screen sizes.

Processed System

4.1 Scope

The Croma Store website is an application stored in the user server. The purpose of the website, which are a retail chain specializing in consumer electronics and appliances, can be summarized as follows:

- Retailing Electronics and Appliances
- Transaction Processing
- Checkout Process
- Network Reliability
- Customer Service Response Time
- Mobile Device Compatibility
- Feedback and Improvement

4.2 Project modules

❖ **Point of Sale (POS) Module:**

This module manages the in-store sales transactions, including product scanning, payment processing, and generating receipts.

❖ **Inventory Management Module:**

Handles the tracking of product inventory, including stock levels, restocking, and inventory reporting.

❖ **Online Sales Module:**

Manages the online store, including product listings, customer orders, and online payment processing.

❖ **Marketing and Promotion Module:**

Manages marketing campaigns, promotions, and advertising efforts to attract and retain customers.

4.3 Module wise objectives/functionalities Constraints

1. Point of Sale (POS) Module:

Objectives/Functionalities:

Efficiently process sales transactions, including product scanning and payment.

Generate accurate receipts and invoices.

Manage returns and refunds.

Constraints:

Must ensure data security and compliance with payment industry standards (e.g., PCI DSS).

Need for reliable internet connectivity for real-time transaction processing.

2. Inventory Management Module:

Objectives/Functionalities:

Track inventory levels in real-time.

Automate reordering of products when stock is low.

Provide inventory reporting and analytics.

Constraints:

Must handle a diverse range of products with varying lifecycles and storage requirements.

Need for barcode or RFID scanning systems for accurate inventory tracking.

3. Online Sales Module:

Objectives/Functionalities:

List products on the online platform.

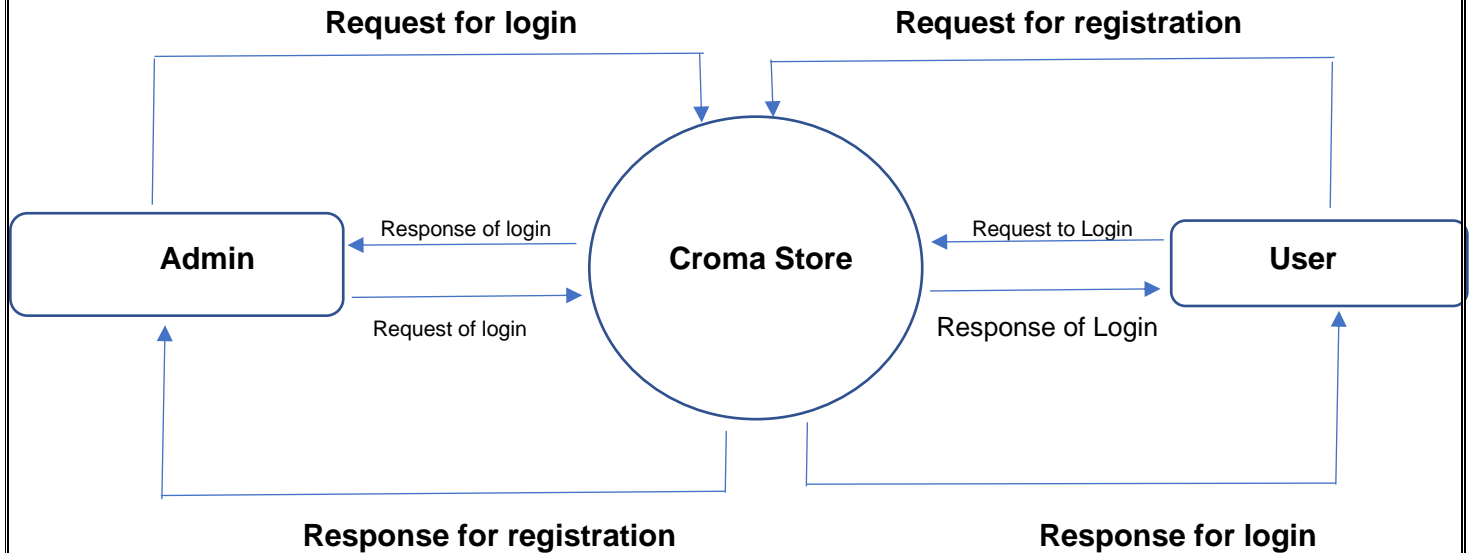
Allow customers to browse and purchase products online.

Process online payments securely.

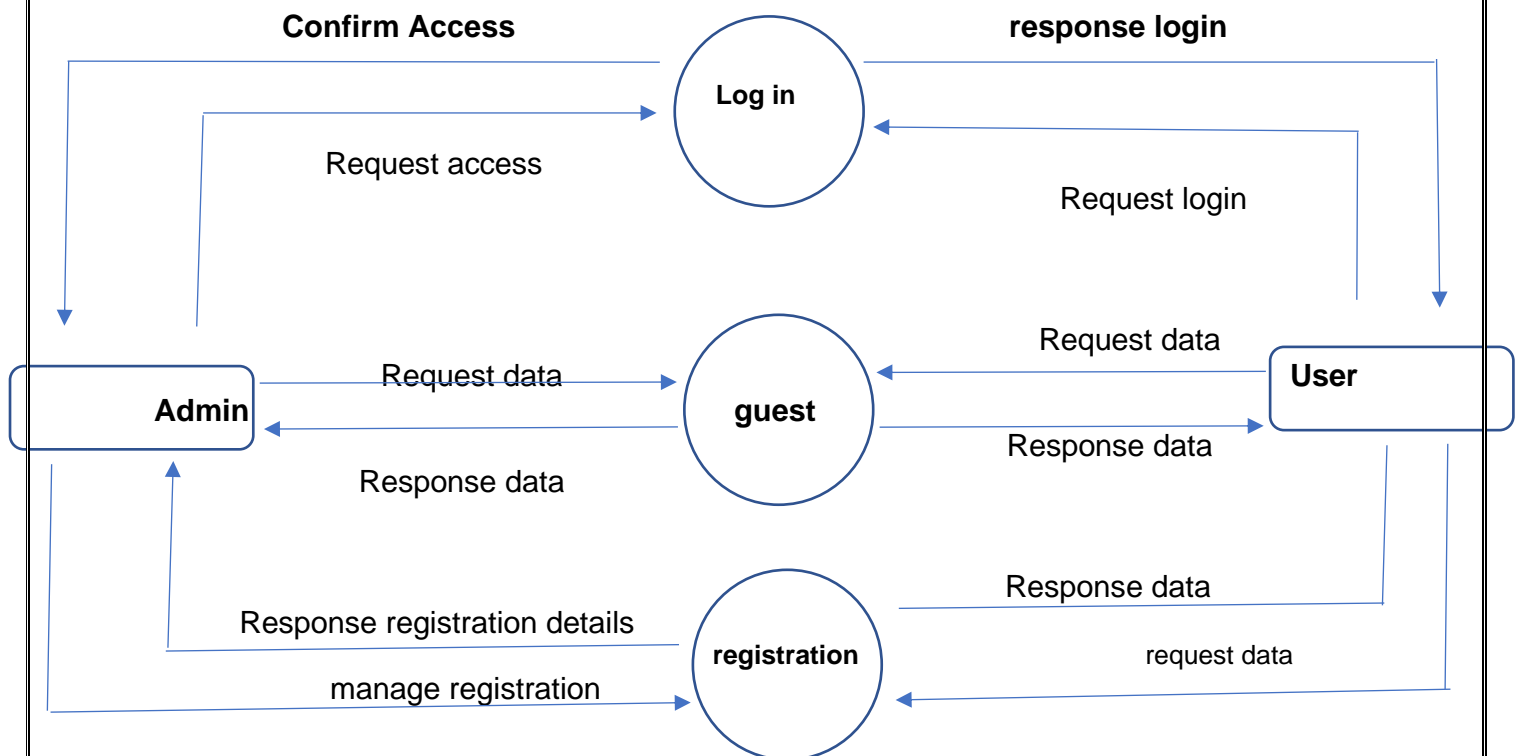
Detail Planning

5.1 Data Flow Diagram / UML

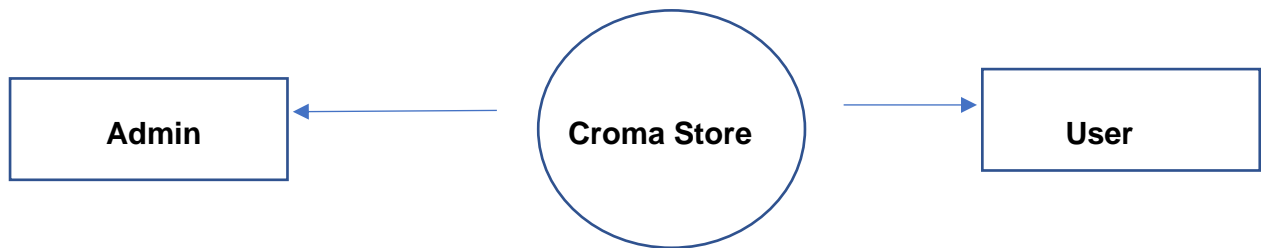
Context-level:



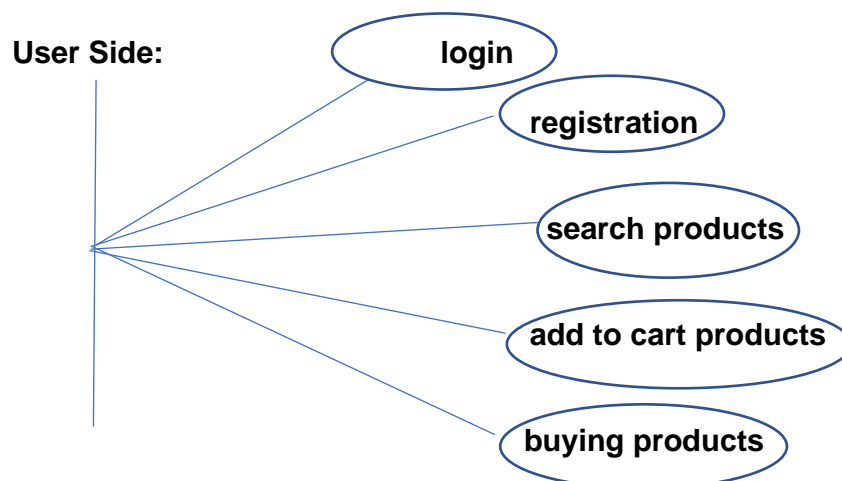
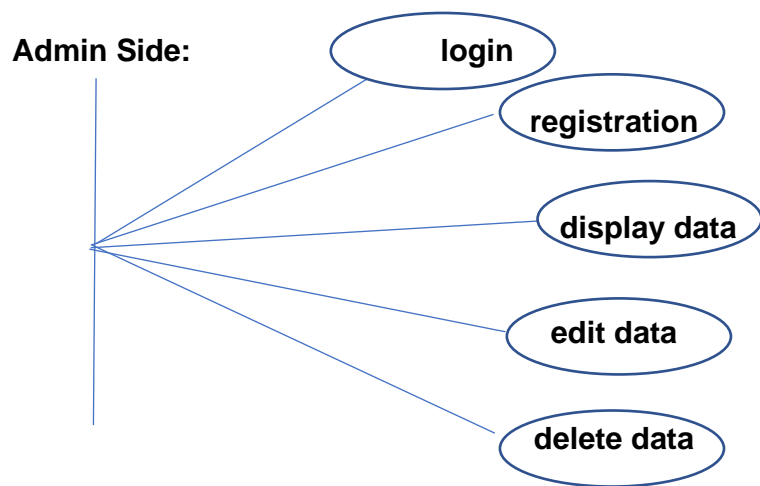
1st Level (admin) Diagram:



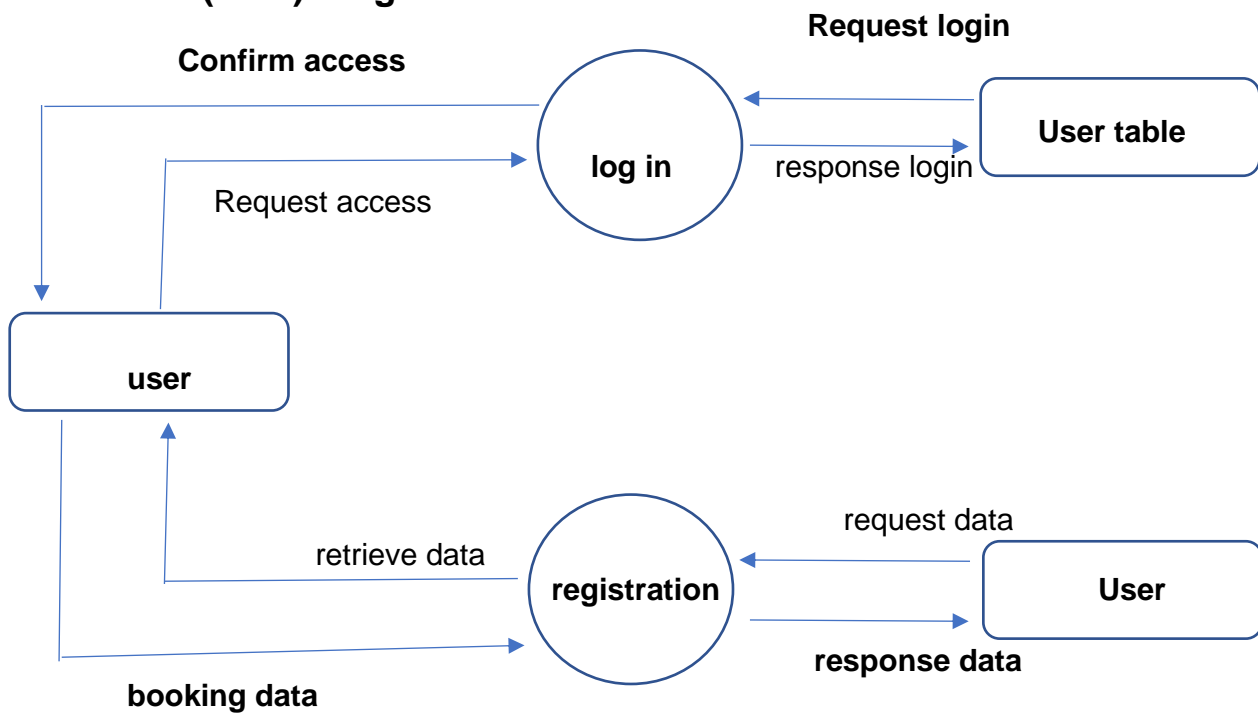
UML diagram:



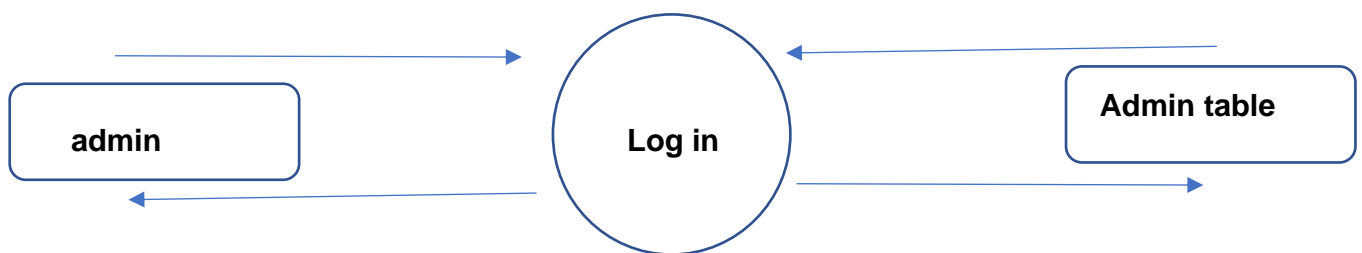
5.2 Process Specification / Activity Flow Diagram



1st Level (user) Diagram:



2nd level login(admin) Diagram:



5.3 Data Directories

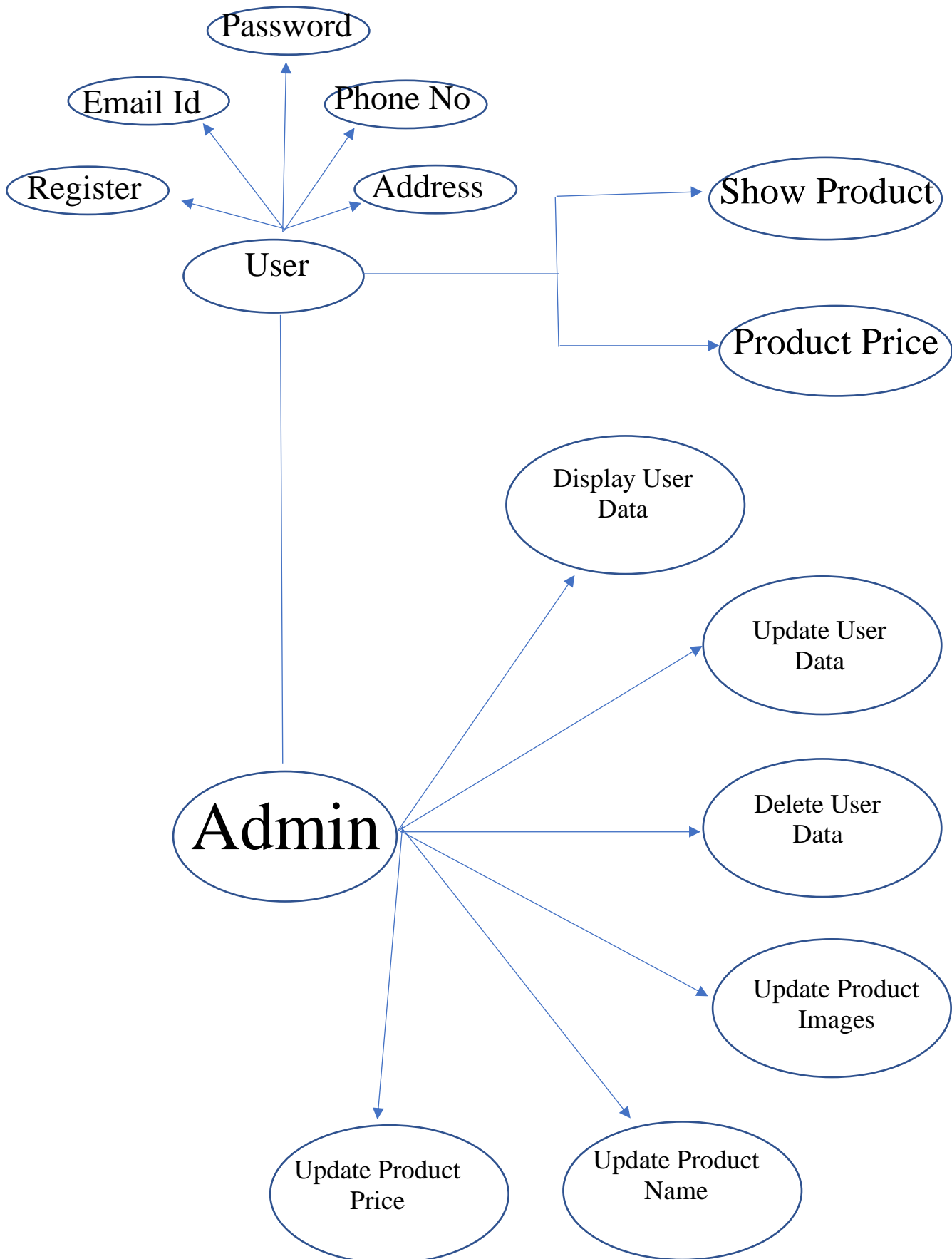
USER	
Alias	Null
Where used/How used	To retrieve or store user details
Description	name+email+address+contact+password+repeatpassword+gender
Supplementary information	Userid must be unique

ADMIN	
Alias	Null
Where used/How used	To retrieve or store admin details
Description	name+email+address+contact+password+repeatpassword+gender

Products	
Alias	Null
Where used/How used	To retrieve or store details
Description	productfile + productname + productsoldprice + productnewprice
Supplementary information	productid must be unique

List Products	
Alias	Null
Where used/How used	To retrieve or store details
Description	productfile + productname + productsoldprice + productnewprice

5.4 Entity-Relationship Diagram / Class Diagram



System Design

6.1 Database Design

Table: store

Description: This table gives detail about User information

Field Name	Field Type	Constraint	Description
u_id	int(11)	Primary key	User id
u_fname	varchar(30)	not null	User name
u_email	varchar(30)	not null	User email
u_address	varchar(30)	not null	User address
u_contact	bigint(10)	not null	User contact
u_pwd	varchar(30)	not null	User password
u_rptpwd	varchar(30)	not null	User repeat Password
u_gender	varchar(30)	not null	User gender

Table: media

Description: This table gives detail about Products information

Field Name	Field Type	Constraint	Description
id	int(11)	Primary key	Product id
image	text	not null	Product image
productname	text	not null	Product name
old_price	bigint(20)	not null	Product old price
new_price	bigint(20)	not null	Product new price

6.2 Dictionary structure

Admin :

croma_sql.php

For Products Management :

Main.php
image_add.php
image_display.php
image_update.php
image_delete.php

For User Data Management :

insert.php
display.php
update.php
delete.php

User :

index.php
header.php
footer.php

register.php
header2.php
footer.php

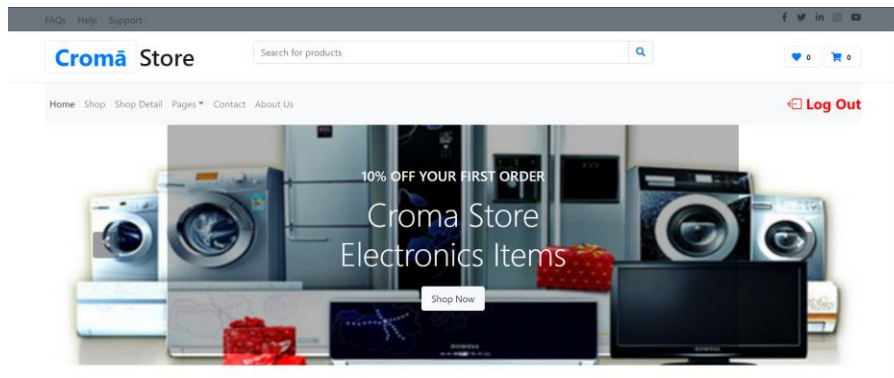
login.php
croma_sql.php
header2.php

index1.php
header3.php
footer2.php

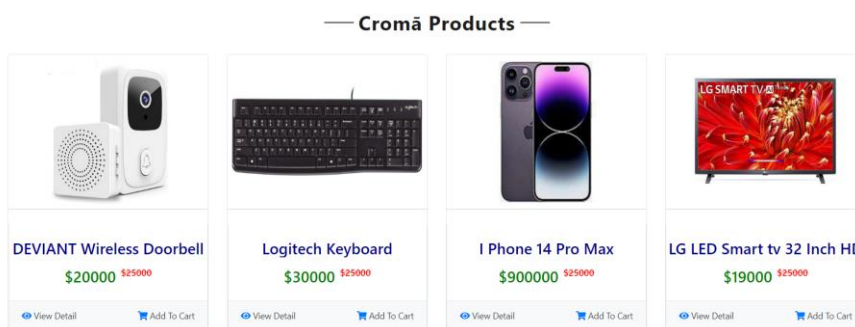
6.3 Input Design

User – Side :

After Login :



Shop :



Contact Us :

Contact For Any Queries

[Send Message](#)

Get In Touch

Step into a world of cutting-edge electronics at Croma. Discover a vast range of gadgets, from smartphones and laptops to home appliances, all thoughtfully curated to elevate your tech experience. Immerse yourself in a sleek and organized store layout, where friendly experts are ready to guide you. Experience hands-on demos, expert advice, and a seamless shopping journey at Croma, your go-to destination for all things electronic.

Croma Store, Surat

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Croma Store, Ahmedabad

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[xyz@example.com](#)
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About Us :

— About Us —

Croma Store in Punjagutta, Hyderabad

Croma Retail Store, Punjagutta, Hyderabad Offers Electronics online. Find Address, Contact Number, Reviews, Photos, Maps. Visit Justdial for Tata Croma Electronics Store in Punjagutta, Hyderabad. Footer - Electronic Goods Showrooms - nct-10185144 Remember the old days when food was cooked fresh for every meal and heated the traditional way? Cakes were baked in sand ovens that seemed quite dangerous too. And rotary phones helped us stay connected with loved ones only if they were accessible and near a phone! Fortunately, all that's changed. And the reason we enjoy such comforts is because of the introduction of modern electronic devices that have eased our lives.

Electronic Goods Showrooms has improved the quality of our lives tremendously. Croma Store in Punjagutta, Hyderabad is well-known among people in the area. It has received a 4.3 rating. These offer services like Delivery Service, Same Day Delivery, In Store Collect. So, don't struggle in life. Bring home devices that will make your life easy!

Croma Store Location and Overview:

Established in the year 2011, Croma Store in Punjagutta, Hyderabad is a top player in the category Electronic Goods Showrooms in the Hyderabad. This well-known establishment acts as a one-stop destination servicing customers both local and from other parts of Hyderabad. Over the course of its journey, this business has established a firm foothold in it's industry. The belief that customer satisfaction is as important as their products and services, have helped this establishment garner a vast base of customers, which continues to grow by the day. This business employs individuals that are dedicated towards their respective roles and put in a lot of effort to achieve the common vision and larger goals of the company. In the near future, this business aims to expand its line of products and services and cater to a larger client base.

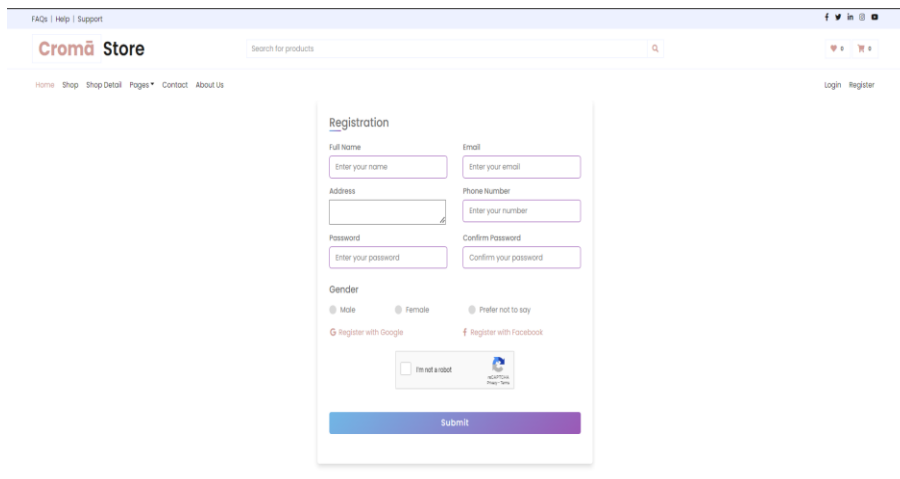
In Hyderabad, this establishment occupies a prominent location in Punjagutta. It is an effortless task in commuting to this establishment as there are various modes of transport readily available. It is at Main Road, Near Gurudwara, Opposite Nims Hospital, which makes it easy for first-time visitors in locating this establishment. It is known to provide top service in the following categories: Electronic Goods Showrooms, Mobile Phone Dealers, CCTV Dealers, Mobile Phone Dealers-Apple, Mobile Phone Dealers-Oneplus, AC Dealers, Laptop Dealers, Sewing Machine Dealers.

Croma Store Location and Overview:

Croma Store in Punjagutta has a wide range of products and/or services to cater to the varied requirements of their customers. The staff at this establishment are courteous and prompt at providing any assistance. They readily answer any queries or questions that you may have. Pay for the product or service with ease by using any of the available modes of payment, such as Amazon Pay, G Pay, UPI. This establishment is functional from 11:00 - 21:00.



User Registration :

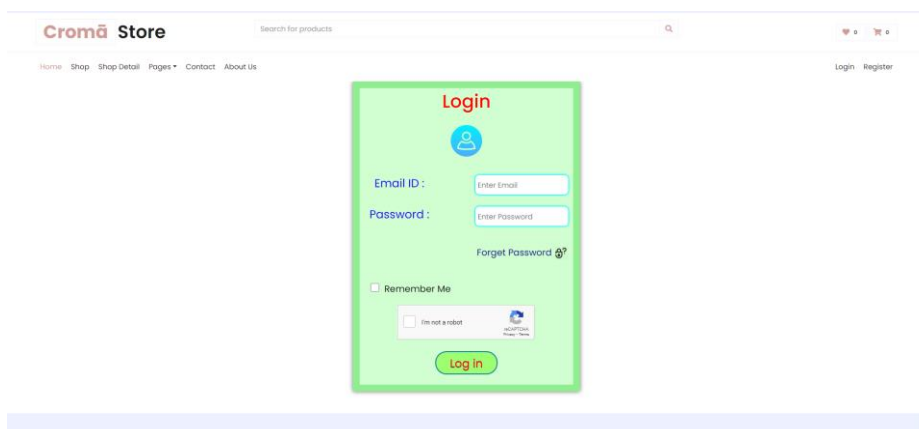


The screenshot shows the 'Registration' form on the Croma Store website. The form is titled 'Registration' and includes the following fields and options:

- Full Name:** A text input field with the placeholder 'Enter your name'.
- Email:** A text input field with the placeholder 'Enter your email'.
- Address:** A text input field with the placeholder 'Enter your address'.
- Phone Number:** A text input field with the placeholder 'Enter your number'.
- Password:** A text input field with the placeholder 'Enter your password'.
- Confirm Password:** A text input field with the placeholder 'Confirm your password'.
- Gender:** Radio buttons for 'Male', 'Female', and 'Prefer not to say'.
- Registration Options:**
 - 'Register with Google' and 'Register with Facebook' buttons.
 - A checkbox for 'I'm not a robot' with a reCAPTCHA logo.
- Submit:** A large blue button at the bottom of the form.

The website header includes the 'Cromā Store' logo, a search bar, and navigation links: Home, Shop, Shop Detail, Pages, Contact, About Us. There are also links for 'Login' and 'Register' in the top right corner.

User Login :



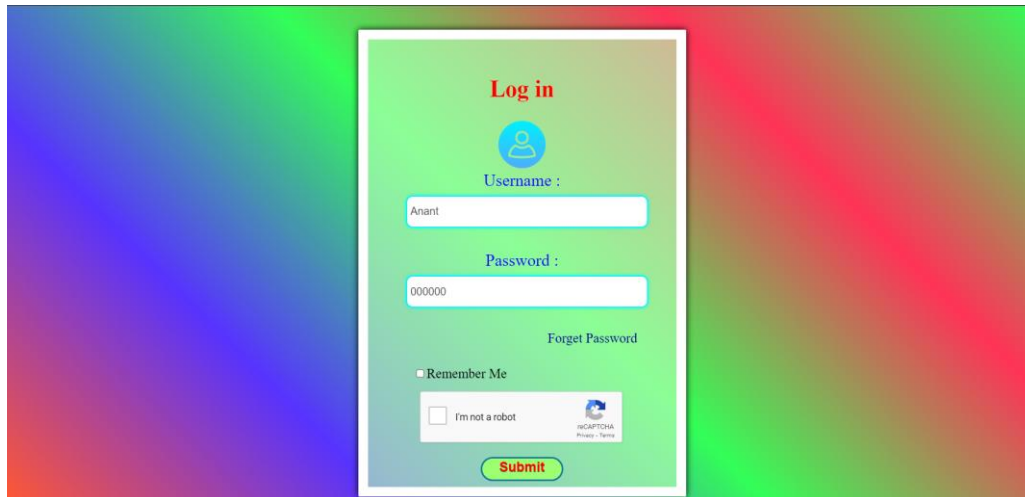
The screenshot shows the 'Login' form on the Croma Store website. The form is titled 'Login' and includes the following fields and options:

- Email ID:** A text input field with the placeholder 'Enter Email'.
- Password:** A text input field with the placeholder 'Enter Password'.
- Forgot Password:** A link with a question mark icon.
- Remember Me:** A checkbox.
- I'm not a robot:** A checkbox with a reCAPTCHA logo.
- Log in:** A large green button at the bottom of the form.

The website header is identical to the registration page, showing the 'Cromā Store' logo, search bar, navigation links, and 'Login'/'Register' links.

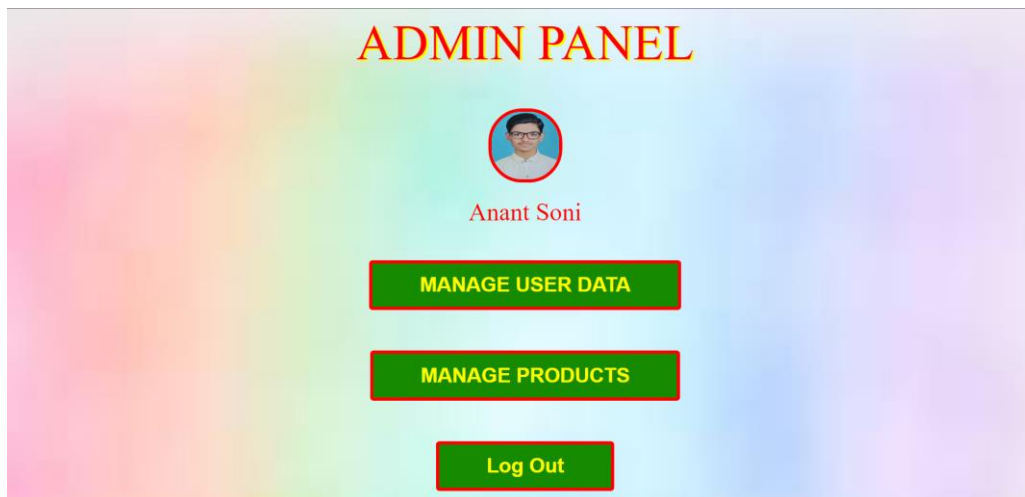
Admin - Side :

Log in :



The login form is centered on a background with a rainbow gradient. It has a white border and a light green background. At the top, it says "Log in" in red. Below that is a blue user icon. The form contains two input fields: "Username :" with the text "Anant" and "Password :" with the text "000000". There is a "Forgot Password" link. Below the password field is a "Remember Me" checkbox. At the bottom, there is a reCAPTCHA widget with the text "I'm not a robot" and a "Submit" button.

After Login / Main.php :



The Admin Panel has a light blue background with a rainbow gradient. At the top, it says "ADMIN PANEL" in red. Below that is a circular profile picture of a man with glasses. Under the picture, it says "Anant Soni" in red. There are three green buttons with red borders: "MANAGE USER DATA", "MANAGE PRODUCTS", and "Log Out".

Manage User Data :

Display Data :

HOME
DOWNLOAD
CAPTURE SCREENSHOT

USER DATA

Id	First Name	Email	Address	Contact	Password	Repeat Password	Gender	Action
124	Anant	pateanant5698@gmail.com	mumbai	8140591020	8140591020	8140591020	male	Update Delete
130	Anant	anantssoni6317204@gmail.com	x	8140591020	8140591020	8140591020	male	Update Delete
134	Anant	anagtfntsoni6317204@gmail.com	f	8585969674	8585969674	8585969674	male	Update Delete
139	Anant	patssselbrij5698@gmail.com	s	8585969674	ssssss	ssssss	male	Update Delete

Update Data :

Update Data

Full Name

Email

Address

Phone Number

Password

Confirm Password

Gender

☒ Male
 ☐ Female
 ☐ Prefer not to say

Update
Reset
Cancel

Delete Data :

HOME

localhost:6317 says
Are You Sure To Delete ?
OK Cancel

CAPTURE SCREENSHOT

USER DATA

ID	First Name	Email	Address	Contact	Password	Repeat Password	Gender	Action
124	Anant	pateanant5698@gmail.com	mumbai	8140591020	8140591020	8140591020	male	Update Delete
130	Anant	anantssconi6317204@gmail.com	x	8140591020	8140591020	8140591020	male	Update Delete
134	Anant	anagtfntsoni6317204@gmail.com	f	8585969674	8585969674	8585969674	male	Update Delete
139	Anant	patssselbrij5698@gmail.com	s	8585969674	ssssss	ssssss	male	Update Delete

6.4 Output Design :

Manage Products :

Add Products :

Update Product Data

Upload File : Choose File No file chosen

Name : Enter Product Name

Old Price : Enter Product Old Price

New Price : Enter Product New Price

SUBMIT
HOME
SKIP

Display Products :

MANAGE PRODUCTS
CAPTURE SCREENSHOT
BACK

Image	Name	Old Price	New Price	Action	
	DEVIANT Wireless Doorbell	\$ 25000	\$ 20000	EDIT	DELETE
	Logitech Keyboard	\$ 25000	\$ 30000	EDIT	DELETE
	iPhone 14 Pro Max	\$ 25000	\$ 900000	EDIT	DELETE
	LG LED Smart tv 32 Inch HD	\$ 25000	\$ 10000	EDIT	DELETE

DOWNLOAD

Update Products :

EDIT PRODUCTS DETAILS



Old Image :

Exchange Image : Choose File No file chosen

Exchange Name : DEVIAANT Wireless Doorbell

Exchange Old Price : 25000

Exchange New Price : 20000

SUBMIT
RESET
BACK

Delete Products :

MANAGE PRODUCTS

localhost:6317 says
Are You Sure To Delete ?

BACK

OK
Cancel

Image	Name	Old Price	New Price	Action	
	DEVIANT Wireless Doorbell	\$ 25000	\$ 20000	EDIT	DELETE
	Logitech Keyboard	\$ 25000	\$ 30000	EDIT	DELETE
	I Phone 14 Pro Max	\$ 25000	\$ 900000	EDIT	DELETE
	LG LED Smart tv 32 Inch HD	\$ 25000	\$ 19000	EDIT	DELETE

7. Software Testing

The testing process focuses on the logical intervals of the software ensuring that all statements have been tested and on functional interval is conducting tests to uncover errors and ensure that defined input will produce actual results that agree with the required results. Program level testing, modules level testing integrated and carried out.

Functional Testing:

- All web pages work properly
- All navigation work properly
- MySQL database work proper
- All Pages Design is perfect

Environment Testing :

- Browser – Internet Explorer/Chrome
- Internet explorer and chrome consider testing for environment
- Operability work properly
- Web server – IIS/Apache
- Database – SQL Server Management Studio
- OS – WINDOWS 11

8.Limitations and Future Scope of Enhancements

Limitations:

The Croma Store web application, like any web-based system, has its limitations that can impact its functionality and performance. One significant limitation is related to connectivity and accessibility. While the web application offers the convenience of online shopping, it relies on stable internet connections for both customers and the store's backend systems.. Ensuring full accessibility compliance can be challenging, and some users may face barriers in navigating or using the website.

Scope:

The future scope includes expand the technologies like HTML and PHP we can also add new technologies like Laravel, reactjs many more for improving the efficiency of the software.

The Croma Store system is the next generation address book which will provide these two basic services like portability, security.

The primary scope of the web application includes providing customers with a user-friendly and convenient online platform to browse, select, and purchase a diverse range of consumer electronics and home appliances.

- This project can be upgraded by adding more options such as product discounts and more admin operations.
- Updating Add to cart or payment option with properly security.
- Website can be upgraded by improving performance as per user feedback

9. References

<https://www.w3schools.com/html/default.asp>

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

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

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https://youtu.be/-IM-U8WK_Ko?si=1xQrs_CUT9RFgHFP