A Project
Report On…

Mobile Shop Management System

Developed By…

Pragnesh Chavda

Submitted To…

Geetanjali Collage of Computer Science & Commerce

Saurashtra University

Rajkot

2024-2025

Guide Name…

PROF. Pranav Trivedi

ACKNOWLEDGEMENTS

While the report for my project work is ready, I feel it is my bounden duty to offer my sincere thanks to all those who have helped and guided me in this regard.

Action is very necessary to convert our dreams into reality. My dream was to develop this project. To make a successful and useful project, one needs help, understanding, and coordination from all those who are directly or indirectly involved in this.

Many people have contributed to making this project a reality. I would like to express my gratitude to our **Head of Department**, Prof. **Brijesh Shah**, for his guidance throughout the project.

While submitting the project report, it is my duty to offer my sincere thanks to those who have assisted me in preparing this project report. I would like to express my gratitude to Kishor Singh Vala for his guidance throughout the project. He helped me in the selection of this topic and guided me to the final completion of my project by reviewing the manuscript of the chapters and providing valuable suggestions.

Before I describe my project briefly, I would like to add a few heartfelt words for those people who have given their time and knowledge to developing this project. Last but not least, I am thankful to all my college faculties and friends for their kind cooperation.

A Special thanks from:

Pragnesh Chavda
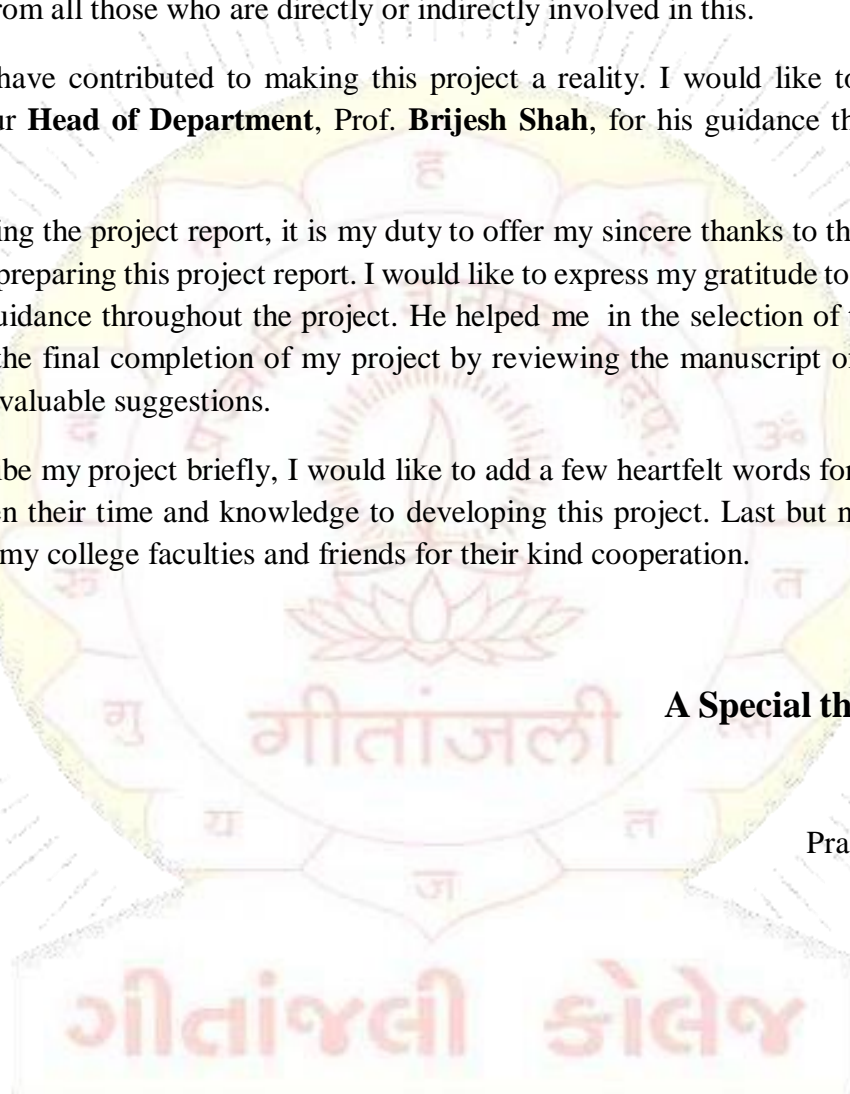
PREFACE

In the 5th semester of my Bscit program, we are required to prepare a project as a separate subject. This project involves thorough study and analysis of a particular subject, followed by the preparation of a comprehensive project report.

There is a significant difference between theoretical and practical knowledge, and understanding this distinction is crucial for the effective use of knowledge. The preparation of a project report has been a new and interesting experience for me. I must admit that it has been challenging from certain perspectives. Through this process, we gain insights into the theoretical concepts of the subject matter and their practical application. A project report also plays a vital role in building confidence in our lives.

It was felt that it is important and instructive not only to learn the principles of software engineering but also to apply them to a software development project. This approach allows us to clearly observe all aspects of development within a project.

By preparing this report, I have come to understand the importance of practical training in the field of education. It is easier to work with a computerized system than a manual one. Thisnot only saves time, effort, and space but also enhances efficiency by generating interest.

Our project pertains to "Mobile Shop management system." The project report contains information and details related to it.

This project is part of my Fifth semester of Bscit course curriculum. Geetanjali Collage of Computer Science & Commerce–Rajkot.

I have decided to develop a web application for my Bscit 5th semester using java technology . Our college has held a prominent position as one of the best colleges in Saurashtra University for a considerable duration.

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Mobile Shop

ABSTRACT

Description: Mobile Shop Management System Using JSP and Servlets

The Mobile Shop Management System is a web-based application designed to streamline the management of mobile sales, inventory, and customer service. Developed using JavaServer Pages (JSP) and Servlets, this system offers a dynamic and interactive platform for mobile shop owners to manage products, track sales, and provide efficient customer service.

Technologies Used:

1. **JavaServer(JSP)Pages: :**
    JSP is used to create dynamic web pages that present information to users. It enables the embedding of Java code into HTML pages, allowing the generation of dynamic content such as product listings, customer profiles, and order statuses.
2. **Servlets:**
    Servlets are used to handle HTTP requests and responses, process user inputs, manage session data, and interact with business logic. They act as controllers that bridge the presentation layer (JSP pages) with the business logic and data access layers, enabling smooth operations like inventory management, order processing, and customer interactions.

Conclusion:
    The Mobile Shop Management System, developed using JSP and Servlets, provides a comprehensive and interactive platform for managing mobile shops. The use of JSP for dynamic content presentation and Servlets for handling requests and business logic ensures a scalable and maintainable solution, allowing mobile shop owners to efficiently manage their products, sales, and customer relationships.

Mobile Shop

PROJECT SUMMERY

Project Summary: Mobile Shop Management System

Objective:
To develop a comprehensive Mobile Shop Management System that allows shop owners to efficiently manage their inventory, sales, and customer relations. The system aims to provide an intuitive platform for managing product listings, customer profiles, and transactions, while offering advanced features for both shop owners and customers.

➤ Features:

1. **Admin Dashboard**
   The Mobile Shop Admin Dashboard centralizes all business activities, providing an at-a-glance view of key metrics such as sales performance, inventory levels, customer interactions, and notifications. This dashboard ensures that mobile shop owners can manage day-to-day business operations seamlessly.

Essential functionalities include:
   - o Product Management
   - o Inventory Control and Tracking
   - o Sales Reports and Analytics
   - o Order and Delivery Management
   - o Customer Management and Feedback

2. **Product Listing and Purchase Process**
   Customers can easily browse through available mobile products, view detailed specifications, check stock availability, and place orders. The system ensures that customers can interact directly with the product listings, adding items to their cart and completing transactions smoothly.

Key functionalities include:
   - o Easy Product Search and Filtering
   - o Product Details Page with Specifications and Pricing
   - o Add to Cart and Checkout
   - o Integrated Payment Gateway for Secure Transactions

3. **Order Management**
   The system enables shop owners to handle customer orders efficiently, from order placement to delivery. Features such as real-time order tracking, order approval, and automated notifications ensure that the entire process is smooth and customer-friendly.

Features include:
   - o Order Approval and Fulfilment

Conclusion:

The Mobile Shop Management System offers a streamlined solution for managing all aspects of a mobile shop, from product listings and sales to customer service and inventory management. The system's user-friendly admin dashboard, real-time inventory control, and efficient order processing make it a scalable and robust platform, ensuring that mobile shop owners can effectively manage their businesses while enhancing the shopping experience for their customers.

PROJECT GOAL

By achieving these goals, the Mobile Shope Management System aims to provide a valuable product for j seekers and employers, improving the overall efficiency and effectiveness of the product search

PROJECT PROFILE

Developed At   : Geetanjali College of Computer Science & Commerce.

Developed By   : Pragnesh Chavda

Division   : BSCIT Semester 5th

Project Name   : Mobile Shope

Main Pages   : View Product , Add to Cart, About Us, Contact Us, Login

Web Browser   : Google Chrome

Operating System   : Windows 11

Editor   : Eclipse Ide

Guided By   : Prof Pranav Trivedi

SYSTEM REQUIREMENTS

➢ **Software**

o Any windows operating system windows 7 to windows 11
o Web Browser (Google Chrome, Internet Explorer, etc…)
o Front-End -> Html ,Css,JavaScript
o Back-End -> Java
o Database -> Mysql

➢ **Hardware**

o Processor : Intel core i3 and after all

,Css,Jt
o Back-End -> Java
o Database -> Mysql

➢ **Hardware**

o Processor : Intel core i3 and after all
o RAM 2 GB or Higher
o HDD with 256GB or Higher

TECHNOLOGY REQUIREMENT

➢ Front-End:

HTML:
provides the basic structure and content of web pages.

CSS:
handles the presentation and layout, ensuring that web pages look appealing and are well-designed.

JavaScript:
adds interactivity and dynamic features, making web pages functional and responsive to user actions.

Together, these technologies form the foundation of web development, enabling the creation of modern, interactive, and visually engaging websites and web applications.

➢ Back-End:

Java:
Java is a widely-used, high-level programming language known for its portability, scalability, and robustness. It is a popular choice for backend development due to its strong performance, extensive libraries, and mature ecosystem.

➢ Database:

MySQL is an open-source relational database management system known for its reliability, flexibility, and ease of use. It is widely used for managing and organizing data in various applications, from small projects to large-scale enterprise systems.

Mobile shop

<u>TEST CASE</u>

1. User Registration and Login

Test Case 1.1: User Registration

- **Objective:** Verify that a new user can register successfully.
- **Steps:**
    1. Navigate to the registration page.
    2. Enter valid user details (name, email, password, etc.).
    3. Click the "Register" button.
- **Expected Result:** The user should receive a confirmation email, and they should be redirected to the login page.

Test Case 1.2: User Login

- **Objective:** Verify that a registered user can log in with correct credentials.
- **Steps:**
    1. Navigate to the login page.
    2. Enter valid email and password.
    3. Click the "Login" button.
- **Expected Result:** The user should be logged in and redirected to the dashboard or home page.

Test Case 1.3: Incorrect Login Credentials

- **Objective:** Verify that the system handles incorrect login credentials correctly.
- **Steps:**
    1. Navigate to the login page.
    2. Enter an incorrect email or password.
    3. Click the "Login" button.
- **Expected Result:** The system should display an error message indicating invalid credentials.

Mobile shop

DATA DICTIONARY

➤ User :

id	address	added_date	email	gender	name	password	phone	pin_code
1	gdhgghdhfd	2024-09-10 11:17:34	demo@gmail.com	Male	demo	demo	1234567898	234456
2	rajkot	2024-09-10 16:54:14	kartik@gmail.com	Male	kartik	123	9723530567	6847684
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

➤ Admin

id	added_date	email	password	name
1	0000-00-00 00:00:00	admin@gmail.com	admin	DataFlair
NULL	NULL	NULL	NULL	NULL

➤ Product

id	active	create_date	description	image	name	price	mrp_price	product_category
16	Active	2024-09-11 17:26:29	samsung s 24	s5.webp	samsung s24 ultra	139999	140000	12 GB RAM | 512 GB ROM
19	Active	2024-09-11 17:34:20	samsung s24 FE	download (2).jpeg	Samsung Galaxy S21 FE	27885	30000	8 GB RAM | 256 GB ROM
20	Active	2024-09-11 17:36:31	Samsung Galaxy a14 5g	images (9).jpeg	Samsung Galaxy a14	15999	16000	4 GB RAM | 64 GB ROM |
21	Active	2024-09-11 17:38:25	Samsung s23 5G	samsung3.jpeg	Samsung s23	25899	26000	8 GB RAM | 256 GB ROM |
22	Active	2024-09-11 17:40:47	oppo Reno7 5G	images (1).jpeg	oppo Reno7 5G	28000	29000	8 GB RAM | 128 GB ROM |
23	Active	2024-09-11 17:43:41	vivi t2 x 5G	download.jpeg	Vivo T2X 5G	24999	26000	8 GB RAM | 256 GB ROM |
24	Active	2024-09-11 17:46:55	Vivo V29 5G	download (1).jpeg	Vivo V29 5G	29999	28586	6 GB RAM | 128 GB ROM |
25	Active	2024-09-11 17:48:36	vivo T3 5G	images (2).jpeg	vivo T3 5G	25000	26000	Vivo V29 5G
26	Active	2024-09-11 17:51:54	Apple iPhone 15 Plus	download (5).jpeg	Apple iPhone 15 Plus	75999	77000	128 GB ROM
27	Active	2024-09-11 17:54:01	Apple iPhone 14 Plus	download (4).jpeg	Apple iPhone 14 Plus	90000	91000	128 GB ROM

Mobile shop

- ➢ Cart

id	discount_price	quantity	total_price	customer_id	product_id	mrp_price
6	2000	1	2000	2	9	1999
7	139999	1	139999	2	16	140000
8	90000	1	90000	2	27	91000
9	15999	1	15999	2	20	16000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

- ➢ Order

id	order_no	customer_name	mobile_number	email_id	address	address_type	pincode	image	product_name	quantity	product_price
1	1001	demo	1234567898	demo@gmail.com	gdhgghdhfd	Home	234456	ggjrjrjr	demo	1	123
2	2002	kartik	9723530567	kartik@gmail.com	rajkot	Home	6847684	demo	oppo	1	2000
3	3003	kartik	9723530567	kartik@gmail.com	rajkot	Home	6847684	null	samsung	1	24999
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SYSTEM DESIGN TOOLS

DFD (Data Flow Diagram):

DFD 0 Level Diagram
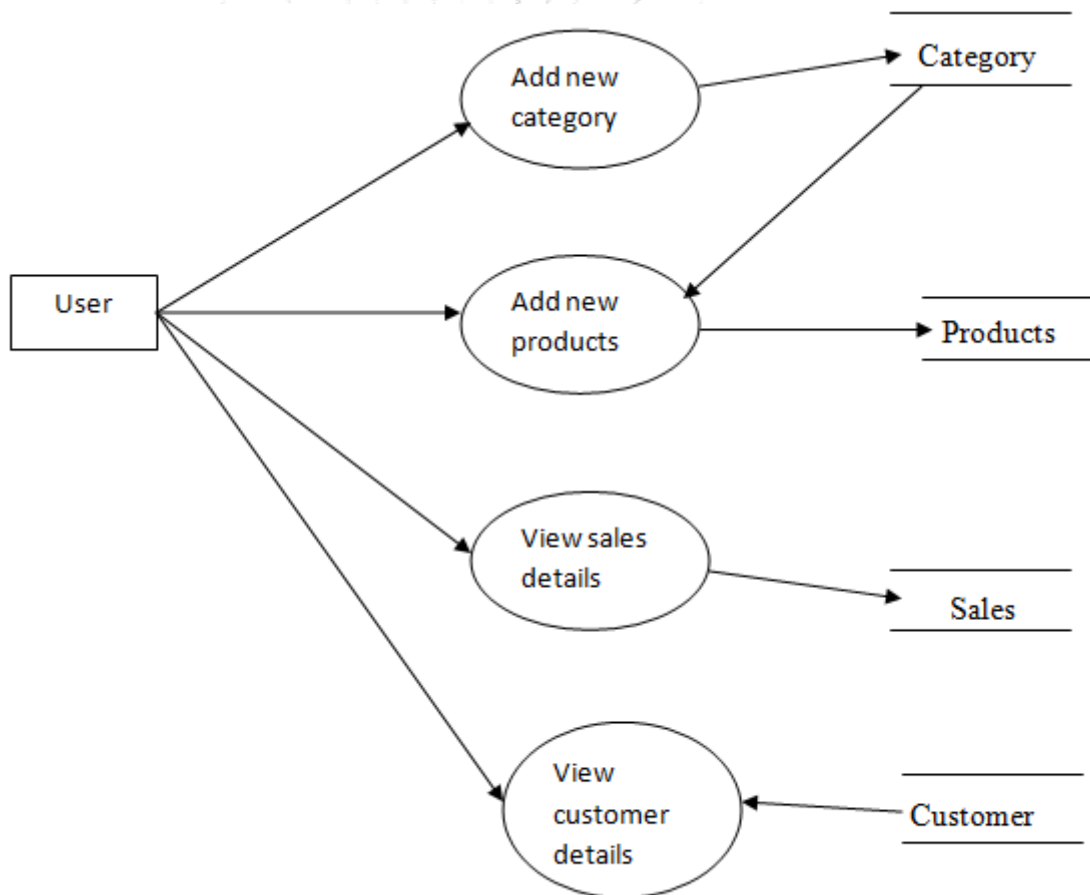
Mobile shop

DFD 1 Level Diagram
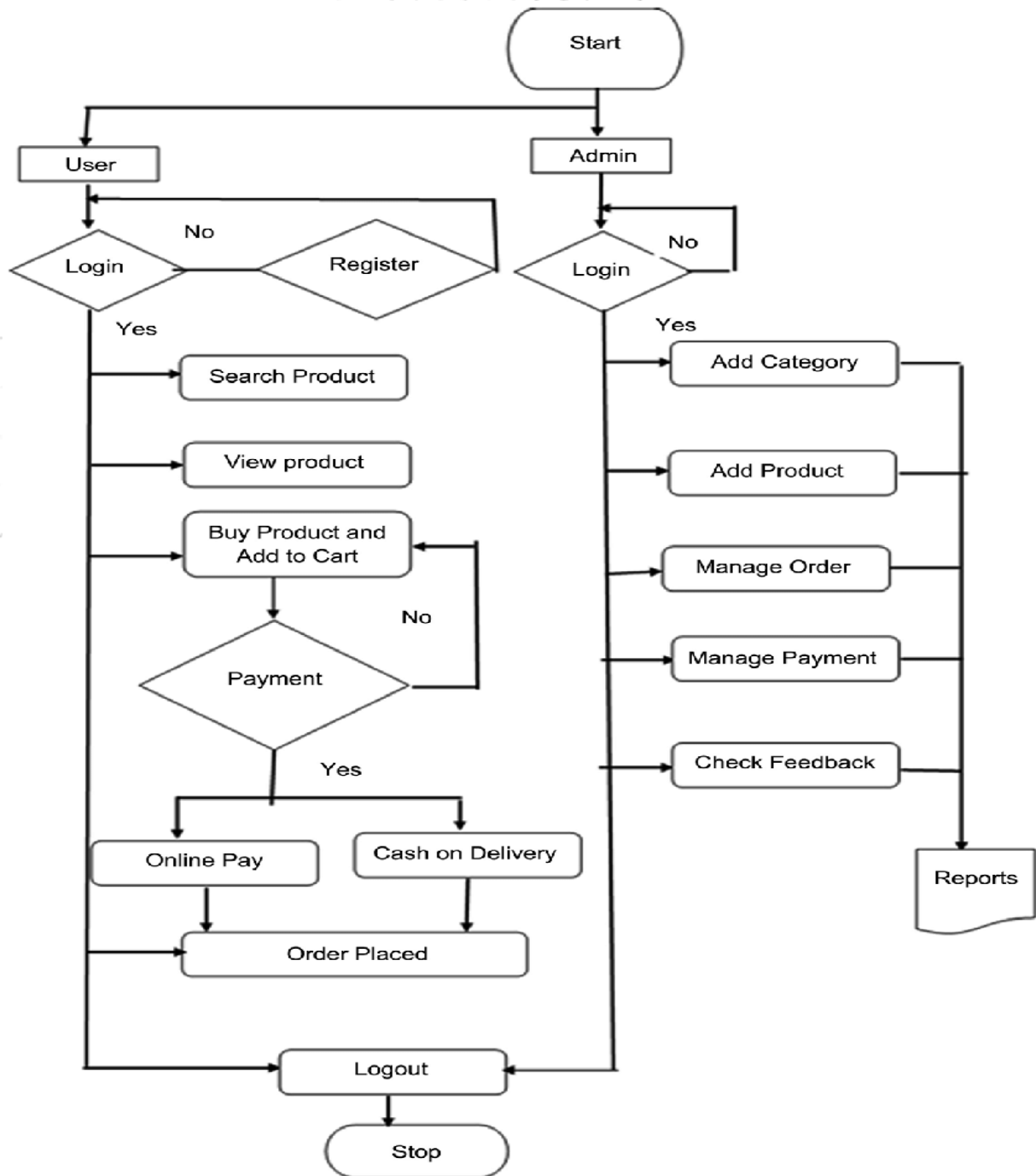
Mobile shop

ER (Entity Relation Diagram)
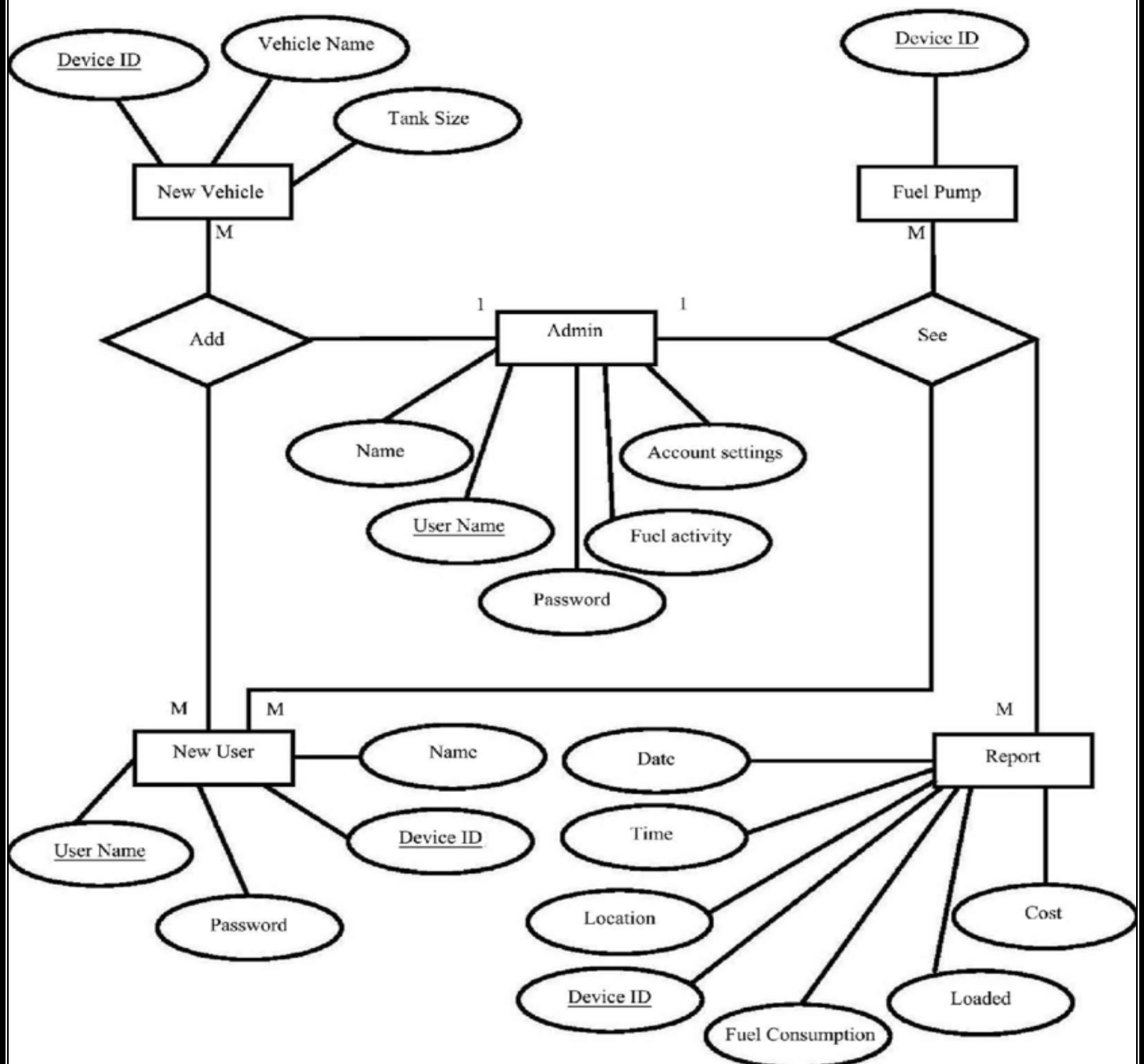
Mobile shop

LAYOUT DESIGN

INDEX PAGE

Page Name: - Home Page

Description: - This is my first page of site Index Page
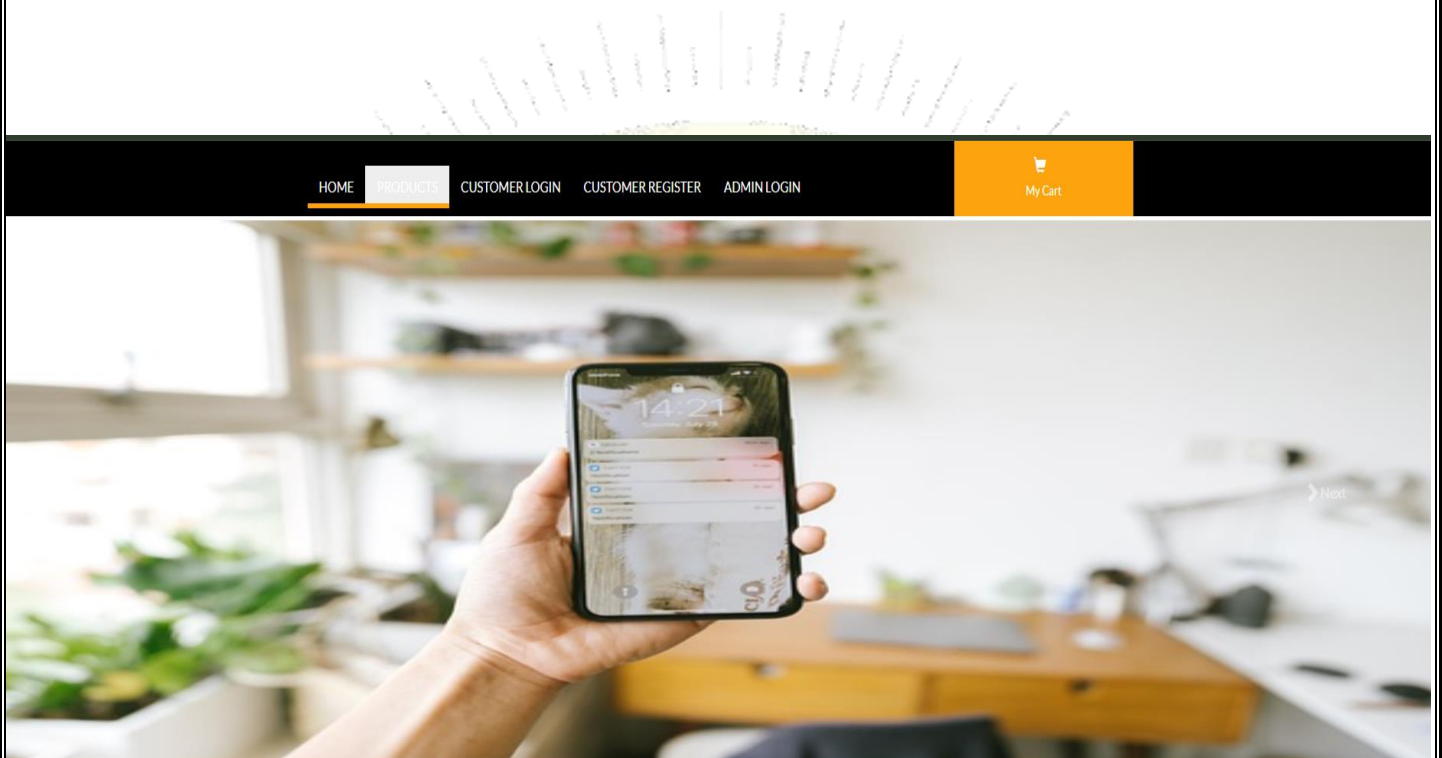
Mobile shop

Page Name: - Customer Register Page

Description: - On this page, Register new Customer my project.

Mobile shop

Page Name: - Customer Login Page

Description: - Tis page is customer Login Page

Mobile shop

Page Name: - Cart page
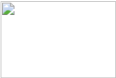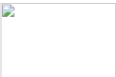
Description: - Customer Cart page

CHECK OUT

MY SHOPPING BAG

SR.No	Product	Quantity		MRP(Rs)	Selling Price(Rs)	Total Price(Rs)	Action
1	samsung s24 ultra	1	Change	140000 Rs.	139999 Rs.	139999 Rs.	🗑
2	Apple iPhone 14 Plus	1	Change	91000 Rs.	90000 Rs.	90000 Rs.	🗑

Page Name: - Product Page

Description: - Customer View Product Page

PRODUCTS

new	new	new	new
samsung s24 ultra	Samsung Galaxy S21 FE	Samsung Galaxy a14	Samsung s23
Category: 12 GB RAM | 512 GB ROM	Category: 8 GB RAM | 256 GB ROM	Category: 4 GB RAM | 64 GB ROM |	Category: 8 GB RAM | 256 GB ROM |
139999 Rs. ~~140000 Rs.~~	27885 Rs. ~~30000 Rs.~~	15999 Rs. ~~16000 Rs.~~	25899 Rs. ~~26000 Rs.~~
Add to cart	Add to cart	Add to cart	Add to cart

new	new	new	new
oppo Reno7 5G	Vivo T2X 5G	Vivo V29 5G	vivo T3 5G
Category: 8 GB RAM | 128 GB ROM |	Category: 8 GB RAM | 256 GB ROM |	Category: 6 GB RAM | 128 GB ROM |	Category: Vivo V29 5G
28000 Rs. ~~29000 Rs.~~	24999 Rs. ~~26000 Rs.~~	29999 Rs. ~~28586 Rs.~~	25000 Rs. ~~26000 Rs.~~
Add to cart	Add to cart	Add to cart	Add to cart

Mobile shop

Page Name: - Admin Login Page

Description: - Admin Login Manage Product

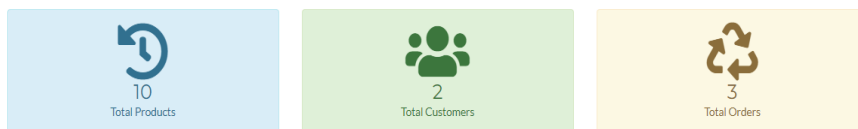Admin Login

Email Id.:

Password.:

Admin Login   Clear

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Page Name: - Admin Home Page

Description: - Admin Home

ADMIN DASHBOARD

| 10 Total Products | 2 Total Customers | 3 Total Orders |

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Page Name: - Add Product

Description: - Admin Add New Product

HOME   ADD PRODUCT   VIEW PRODUCTS   VIEW ALL ORDERS   VIEW PENDING ORDERS   VIEW DELIVERED ORDERS

VIEW CUSTOMERS   LOGOUT

ADD PRODUCT

Add Product

Enter Name

Price

Description

MRP Price

Status

Active

Product Category

Attach Product Image

Choose File | No file chosen

Add Product   Reset

Mobile shop

Page Name: - View Product

Description: - View All Product Only Admin

VIEW PRODUCTS

View Products

#	Name	Image	Description	MRP(Rs)	Price (Rs)	Date	Status	Action
16	samsung s24 ultra		samsung s 24	~~140000~~	139999	2024-09-11 17:26:29	Active	Edit Delete
19	Samsung Galaxy S21 FE		samsung s24 FE	~~30000~~	27885	2024-09-11 17:34:20	Active	Edit Delete
20	Samsung Galaxy a14		Samsung Galaxy a14 5g	~~16000~~	15999	2024-09-11 17:36:31	Active	Edit Delete
21	Samsung s23		Samsung s23 5G	~~26000~~	25899	2024-09-11 17:38:25	Active	Edit Delete
22	oppo Reno7 5G		oppo Reno7 5G	~~29000~~	28000	2024-09-11 17:40:47	Active	Edit Delete
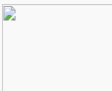
Mobile shop

Page Name: - View Pending Order

Description: - View Order Pending Order

PENDING ORDERS

Pending Orders

#	Order No	Customer Details	Product	Qty	Total Amount	Status	Date	Payment Mode
3	3003	kartik|9723530567|kartik@gmail.com|rajkot|Home|6847684	samsung	1	25000	Pending	2024-09-11 11:40:29	COD

Mobile shop
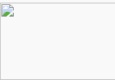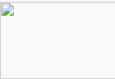
Page Name: - View Delivered Order

Description: - View all Delivered Order

DELIVERED ORDERS

Delivered Orders

#	Order No	Customer Details	Product	Qty	Total Amount	Status	Date	Payment Mode
1	1001	demo|1234567898|demo@gmail.com|gdhgghdhfd|Home|234456	demo	1	123	Delivered	2024-09-10 11:18:20	COD
2	2002	kartik|9723530567|kartik@gmail.com|rajkot|Home|6847684	oppo	1	1999	Delivered	2024-09-10 16:55:14	UPI Id

Mobile shop

Page Name: - View Customer

Description: - View all Customer Visit Website

VIEW CUSTOMERS

View Customers

#	Name	Email-Id	Gender	Mobile	Address	Date
1	demo	demo@gmail.com	Male	1234567898	gdhgghdhfd	2024-09-10 11:17:34
2	kartik	kartik@gmail.com	Male	9723530567	rajkot	2024-09-10 16:54:14

FUTURE REQUIREMENTS OF PROJECT

- Future requirements for a **Mobile Shop Management System** involve enhancing user experience with AI-driven features, expanding integration capabilities, providing advanced tools for shop owners and customers, and ensuring scalability, security, and compliance. By implementing these requirements, the mobile shop management system can remain competitive, adapt to evolving market demands, and support growth in the fast-paced retail sector..
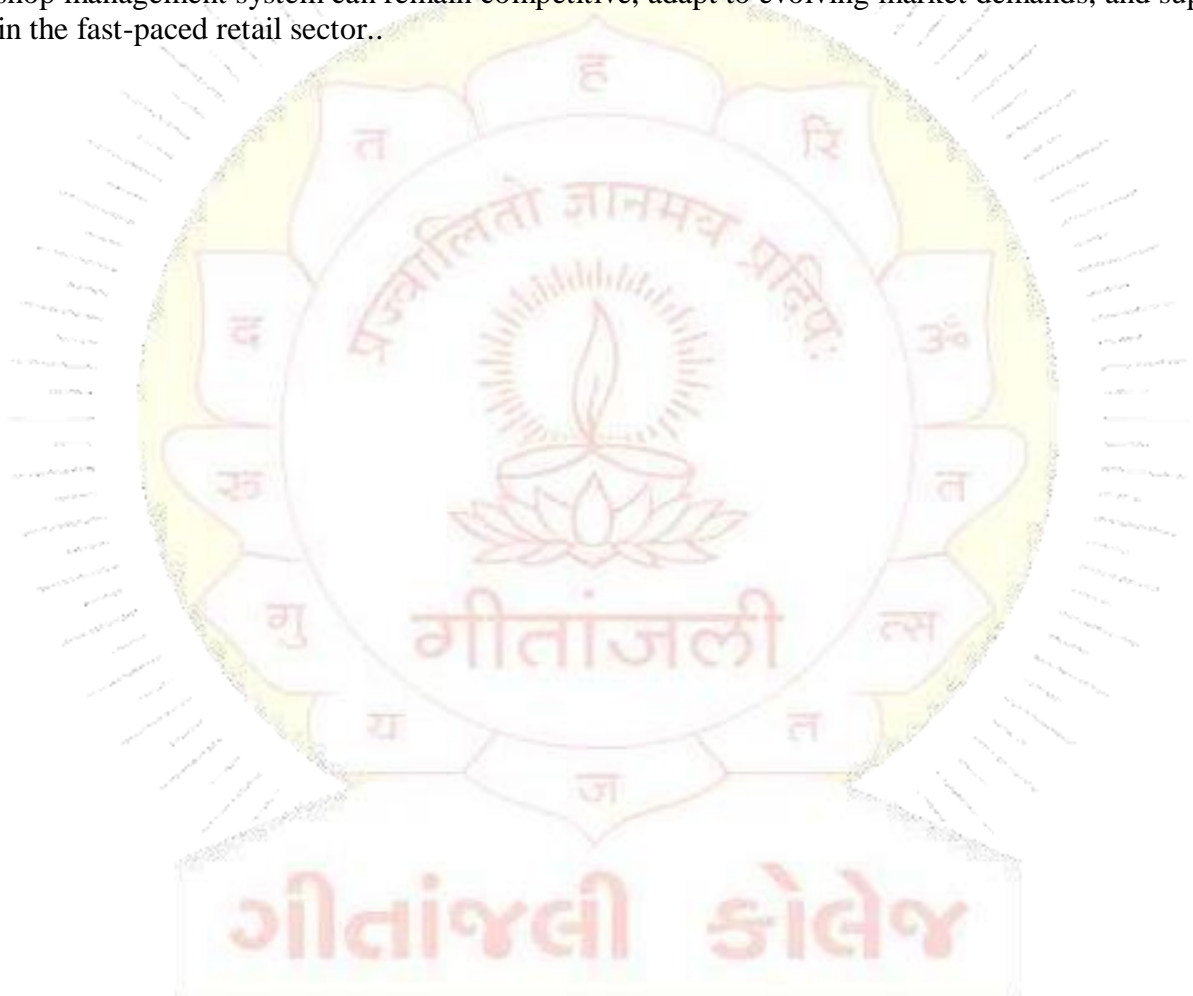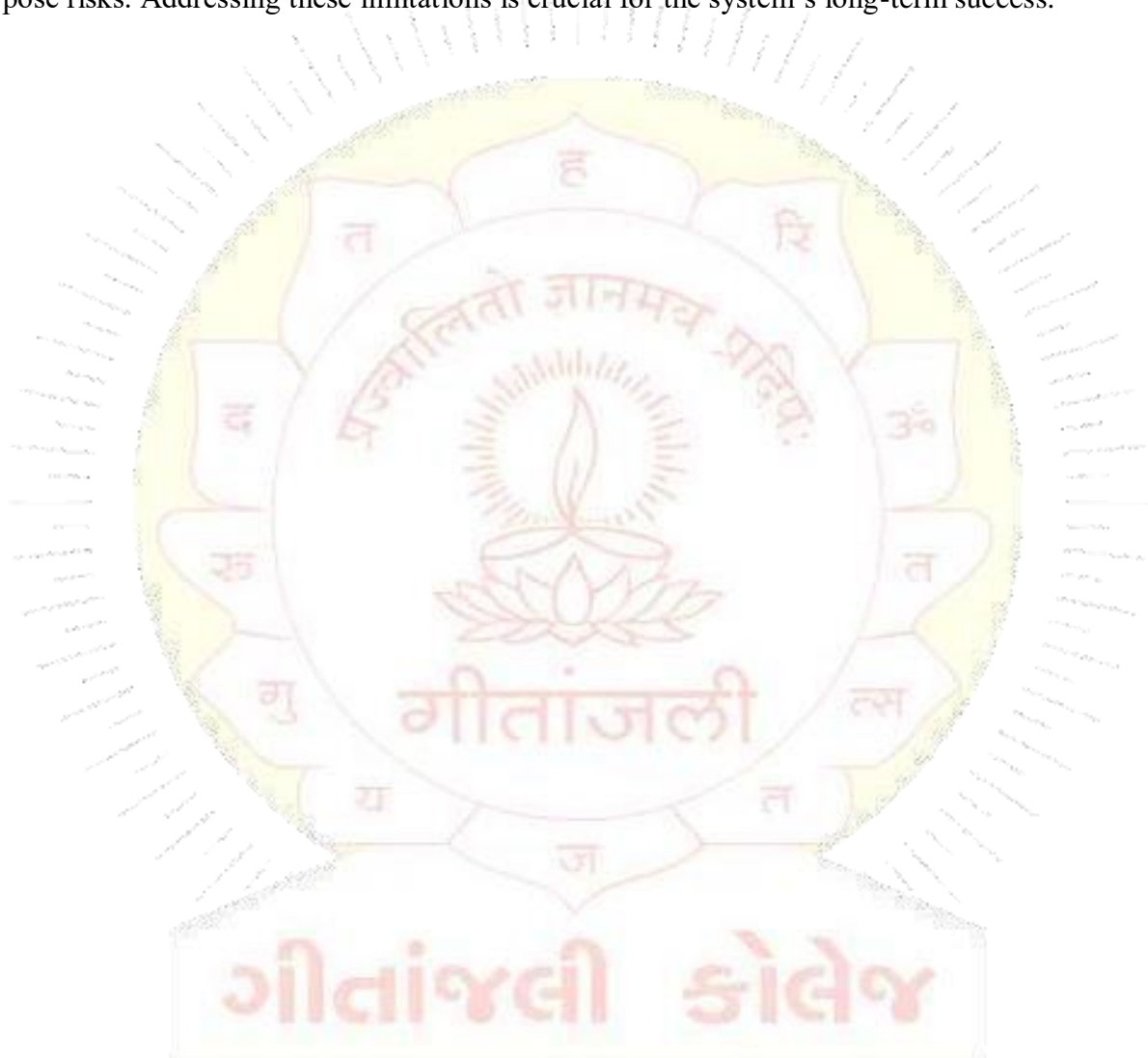
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LIMITATION OF PROJECT

The limitations of a **Mobile Shop Management System** include technical challenges related to scalability and integration, security and privacy concerns, and user experience issues such as accessibility and ease of use. Additionally, functional limitations, financial constraints, and the need for ongoing maintenance can present challenges. The rapidly evolving technological landscape and increasing competition in the retail market also pose risks. Addressing these limitations is crucial for the system's long-term success.

WEBLO GRAPHY

Resources Used

Google: https://www.google.com/

Stack Overflow: https://stackoverflow.com/

ChatGPT by OpenAI: https://chat.openai.com/

Javatpoint: https://www.javatpoint.com/

Thank you!

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