Online Retail Management

A COURSE PROJECT REPORT

By

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18CSC303J-Database Management Systems

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BONAFIDE CERTIFICATE

Certified that this B.Tech project report titled "**Online Retail Management**" is the bonafide work of **ARNAV SRIVASTAVA[RA2111030010066]** who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion for this or any other candidate.

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ACKNOWLEDGEMENT

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INTRODUCTION

This Online Retail Management reveals how front-end and back-end technologies work together to enhance task management, driving organizational success. This system simplifies tasks, fosters collaboration, and boosts efficiency. The technology stack utilized in the development of the Online Retail Management includes:

1.1 Front-end:

HTML (Hypertext Markup Language): HTML is the standard markup language used for creating the structure of web pages. It provides the basic framework for organizing content such as text, images, and multimedia elements within a browser.

CSS (Cascading Style Sheets): CSS is a style sheet language that defines the visual presentation and layout of HTML elements on a web page. It allows developers to specify styles such as colors, fonts, margins, and positioning, thereby enhancing the aesthetic appeal and usability of the interface.

1.2 Back-end:

SQL (Structured Query Language): SQL is a powerful language used for managing and manipulating relational databases. It enables the creation, modification, and querying of database structures and data, allowing for efficient storage, retrieval, and manipulation of stock information.

PHP (Hypertext Preprocessor): PHP is a server-side scripting language commonly used for web development. In the Online Retail Management, PHP is utilized to generate dynamic content, handle user input, and interact with the SQL database. It facilitates the seamless integration of front-end and back-end components, enabling the creation of interactive and data-driven web applications.

1.3 Database Management System (DBMS):

SQL Database: Online Retail Management employs a relational database management system (RDBMS) that uses SQL to manage and store task-related data. SQL databases provide a structured and efficient way to organize large volumes of data, ensuring data integrity, security, and scalability for the application.

Using this technology stack, Online Retail Management combines the strengths of front-end and back-end technologies to deliver a robust, user-friendly, and efficient solution for organizing and managing products. The front-end components provide an intuitive interface for users to interact with the application, while the back-end components handle data processing, storage, and retrieval, ensuring seamless functionality and performance.

PROJECT FEATURES AND OBJECTIVES

Online Retail Management Solution is a comprehensive platform aimed at optimizing task organization, project management, and client communication within online retail organizations. Developed around a robust database schema comprising tables like Employee, Task, Projects, Reports, and Clients, our system facilitates seamless coordination and efficient tracking of tasks and projects throughout the retail life cycle.

Main Features:

Employee Management:
- Administrators can efficiently manage employee data, including personal information, roles, and assignments.
- Employees have access to their profiles to view assigned tasks, project details, and deadlines.

Task Tracking:
- Users can create, assign, and prioritize tasks within projects, ensuring clarity and accountability.
- Real-time updates and notifications keep team members informed about task statuses and deadlines.

Project Management:
- Projects are systematically organized and tracked, featuring project creation, assignment, and progress monitoring.
- Detailed project dashboards offer stakeholders insights into project timelines, milestones, and resource allocation.

Reports Generation:
- The system enables comprehensive report generation on tasks, projects, employee productivity, and client interactions.
- Customizable reporting options empower users to tailor reports to specific requirements and preferences.

Client Interaction:
- Client profiles and communication logs facilitate effective client management and communication.
- Integration with client data ensures seamless collaboration and transparency in client-facing activities.

Key Benefits:

Efficiency:
- Centralizing task and project management processes enhances efficiency and productivity within the online retail environment.

Transparency:
- Real-time updates and detailed reports provide stakeholders with transparency and visibility into project progress and employee performance.

Scalability:
- The modular architecture and scalable database design allow the system to adapt to evolving organizational needs and growth in the online retail industry.

BACKEND DESIGN

1. Conceptual Database Design(ER-Diagram)

An ER diagram represents the relationships between entities in a database. In the context of Task Management System, the ER diagram include entities such as Employee, Task, Projects, Reports, and Clients, along with their relationships.
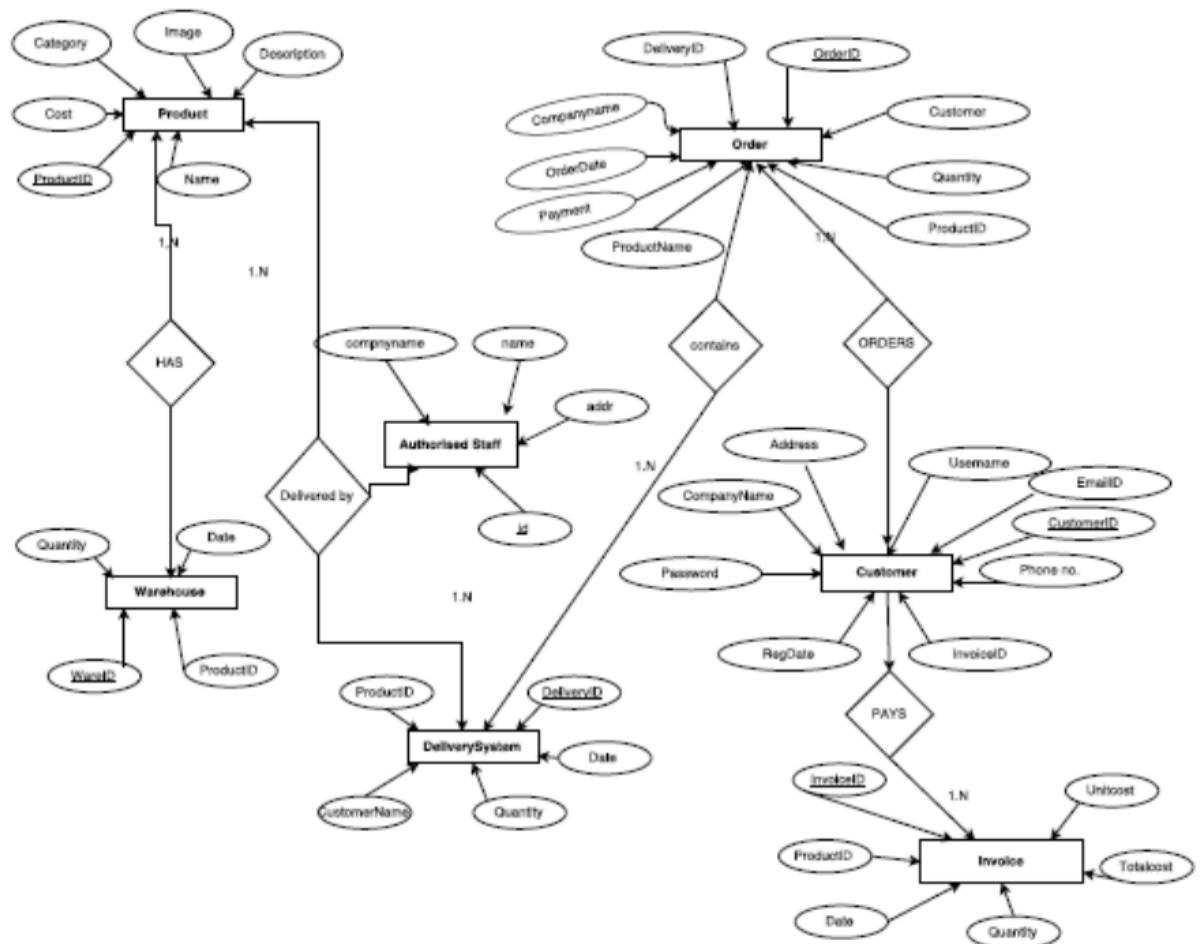
FRONTEND MODULES

Index Page:
- Welcome to our platform's index page where you can easily access various sections and features.

Admin Portal:
Add a Product:
- Utilize our user-friendly interface to add new products to your inventory.
- Enter product details such as name, description, price, and quantity with ease.
- Upload product images to showcase your offerings effectively.

Modify a Product:
- Update product information seamlessly to reflect changes in pricing, descriptions, or availability.
- Navigate through your product catalog and edit details effortlessly.
- Ensure accurate and up-to-date product listings to enhance customer satisfaction.

Search a Product:
- Employ our robust search functionality to locate specific products quickly.
- Enter keywords, categories, or attributes to narrow down your search results.
- Find products efficiently to streamline your browsing and shopping experience.

Delete a Product:
- Remove outdated or discontinued products from your inventory effortlessly.
- Select products for deletion and confirm removal to maintain a clean and organized database.
- Manage your product catalog effectively by eliminating irrelevant items.

Customers:
Sign Up:
- Register for a new account to gain access to exclusive features and personalized services.
- Provide basic information such as name, email, and password to create your account.
- Receive a confirmation email and complete the registration process to start shopping.

Login:
- Access your account securely by entering your credentials on the login page.
- Enjoy a seamless authentication process with advanced security measures in place.
- Stay logged in for convenient access to your account and saved preferences.

Product Shop:
- Explore our extensive collection of products conveniently organized into categories.
- Browse through featured items, best sellers, or new arrivals to discover exciting offerings.
- Click on product listings to view detailed descriptions, images, and pricing information.

Invoice:
- View and download detailed invoices for your purchases directly from your account.
- Access order history and invoices for easy reference and tracking.

Index Page:

Admin Portal:

Add a product:

Modify a product:

ONLINE RETAIL MANAGEMENT SYSTEM

Welcome to Product Modification!!

Enter the ProductID: 2   OK

Product ID:	2
Name:	Coke
Cost:	25
category:	Fruits&Vegetables ▼
Quantity:	200
description:	CocaCola, 200ml Tin
	submit

Exit

Search a product:

ONLINE RETAIL MANAGEMENT SYSTEM

Welcome to Product Search!!!

Search By: Select   ▼ OK

Product_ID	Product Name	Cost	Category	Quantity	Description
13	Salsa Dip	110	others	50	spicy sause
14	FastrackGT1052	1100	others	5	sports watch
15	Piolice Watch	10000	others	20	Premium Watch
18	Pepe Jeans(Original)	1500	others	20	Jeans
19	NikeAir Shoes225D	8799	others	10	Premium Shoe brand. White and yellow in color

Total Product(s): 5

Exit

Delete a product:

ONLINE RETAIL MANAGEMENT SYSTEM

Delete Products!!!

Enter the ProductID: 2   OK   Exit

Product_ID	Product Name	Cost	Category	Quantity	Description
2	Coke	25	beverages	200	CocaCola, 200ml Tin

Delete

CUSTOMERS:

Sign up:

ONLINE RETAIL MANAGMENT SYSTEM

First Name	
Last Name	
Username	
Email:	
Phone no.:	
Password:	
Re-Enter Password:	
Address:	
	Sign Up

Login:

ONLINE RETAIL MANAGMENT SYSTEM

Username	
Password:	
	Sign Up

Product shop:

ONLINE RETAIL MANAGMENT SYSTEM

Logout

BEVERAGES

Product Name	Cost	Description	Wanna Buy??	Quantity
Sprite	25/-	Cold Drink, 200ml Tin	☐	
Coke	25/-	CocaCola, 200ml Tin	☐	
Fanta	25/-	Cold drink, CocaCola, 200ml Tin	☐	
Coke	75/-	CocaCola, 2liter Bottle	☐	

SNACKS

Product Name	Cost	Description	Wanna Buy??	Quantity
kurkure	10/-	Fried And Spicy	☐	
Lays blue	18/-	Potato Chips, Spicy	☐	
Onion Rings	20/-	Haldiram, Fried, 250gm	☐	
Nachos	85/-	spicy and tasty	☐	
Currypuffs	110/-	Tasty and healthy	☐	

FRUITS AND VEGETABLES

Invoice:

ONLINE RETAIL MANAGMENT SYSTEM

Logout

INVOICE

Product Name	Cost	Quantity	Total
Sprite	25/-	2	50
Apple	25/-	5	125
Mango	30/-	5	150
FastrackGT1052	1100/-	1	1100
Pepe Jeans(Original)	1500/-	2	3000
		Grand Total:	4425/-

Go back to shop   Proceed

ONLINE RETAIL MANAGMENT SYSTEM

Logout

Connecting to Online Transaction Portal . . .

REAL WORLD APPLICATIONS

1. **Project Planning and Tracking:** Efficiently plan and track tasks related to online retail projects, such as website updates, product launches, and marketing campaigns, ensuring timely completion and staying within budget.
2. **Task Delegation and Accountability:** Delegate tasks such as product updates, inventory management, and customer service inquiries to appropriate team members, set deadlines, and track progress to ensure accountability and effective task management in the online retail environment.
3. **Resource Optimization:** Optimize resource allocation by identifying bottlenecks in online retail operations, such as inventory shortages or shipping delays, and redistributing tasks as needed to maximize efficiency and ensure seamless customer experiences.
4. **Cross-Functional Collaboration:** Facilitate collaboration across departments such as marketing, sales, and logistics by providing a centralized platform for communication and task management, enabling streamlined coordination and alignment of efforts in the online retail space.
5. **Client Management:** Efficiently manage client projects and requests, such as website customization or special orders, to improve client satisfaction and build lasting relationships with online retail customers, fostering loyalty and repeat business.
6. **Meeting Deadlines:** Prioritize tasks related to online retail operations, such as product launches or promotional campaigns, set deadlines, and ensure timely completion to maintain a positive reputation, meet customer expectations, and capitalize on market opportunities.
7. **Document Management:** Organize, store, and share documents such as product catalogs, marketing materials, and customer feedback for easy access and collaboration among online retail team members, ensuring alignment and consistency in messaging and operations.
8. **Performance Tracking:** Track employee performance metrics such as order fulfillment rates, customer satisfaction scores, and sales conversion rates to identify top performers and areas for improvement, enabling targeted training and development efforts to enhance online retail team effectiveness and efficiency.

CONCLUSION

Throughout the development of this project, I've delved deeply into HTML, CSS, JavaScript, PHP, and MySQL, mastering the intricacies of database management. Along the way, I've learned how to craft user-friendly applications by abstracting away complexity for effortless user interaction.

This journey has been a profound learning experience, enlightening me on the nuances of software demand and the critical importance of error reduction. It has shaped my approach to development, instilling in me a dedication to excellence and a focus on user-centric design principles.

<u>BIBLIOGRAPHY</u>

The following are some of the resources:

☐ www.w3schools.com

☐ www.tutorialspoint.com

☐ Google and Youtube Tutorials

☐ Class Notes and reference books