

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
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Project Report

On

Development of The Ultimate Shopping

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER IN COMPUTER APPLICATION
in
COMPUTER SCIENCE AND ENGINEERING

Submitted By

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
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JAN-JUNE 2024



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Date: 10/04/2024

PROJECT COMPLETION CERTIFICATE

This is to certify that **Mr. Saurav Sharma** has successfully completed his project with us at **Numeric Infosystem Private Limited**, under the designation of **Software Developer** in the **Information Technology Department**. His project commenced on **15th Jan 2024** and concluded on **15th May 2024**, during which he exhibited commendable conduct and professionalism.

Throughout the project, **Mr. Saurav Sharma** actively contributed to the development of the **The Ultimate Shopping**, a dynamic web application aimed at enhancing user experience and functionality. His responsibilities encompassed frontend and backend development tasks, including designing user interfaces, writing clean and efficient code, and integrating various APIs.

For
NUMERIC INFOSYSTEM PVT. LTD.



(Authorized Signatory)

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CERTIFICATE

This is certified that **Saurav Sharma (0901CA221059)** has submitted the project report titled **Development of The Ultimate Shopping** under the mentorship of **Mr. Vishal Jain** in partial fulfilment of the requirement for the award of degree of **Master in Computer Application of Computer Science and Engineering** from **Madhav Institute of Technology and Science, Gwalior.**

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of **Master in Computer Application** in Computer Science and Engineering at **Madhav Institute of Technology & Science, Gwalior** is an authenticated and original-record of my work under the mentorship of **Mr. Vishal Jain, Project Manager (Full Stack Developer Team), Numeric Infosystem Private Limited (Gwalior)**.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

S Sharma .

Saurav Sharma
(0901CA221059)
2nd Year

Master in Computer Application
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
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ACKNOWLEDGEMENT

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I would like to extend my heartfelt appreciation to **Mr. Vishal Jain**, Project Manager (Full Stack Developer Team, Numeric Infosystem Private Limited (Gwalior) for their exceptional mentorship, guidance, and assistance throughout the project. Their valuable inputs and feedback have helped me enhance my knowledge and skills. Their constant encouragement and support have been instrumental in the successful completion of this project.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Parul Saxena**, Assistant Professor, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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Saurav Sharma
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2nd Year

Master in Computer Application
Computer Science and Engineering

Abstract

In this digital age, E-commerce has reshaped the retail landscape, offering unparalleled convenience to consumers. Our project, an E-commerce platform named "**The Ultimate Shopping**" aims to provide a seamless and secure online shopping experience.

The Ultimate Shopping focuses on user simplicity, intuitive design, and security. It offers a wide array of products, ranging from fashion wearers to jewelry. With a user-friendly interface, robust security protocols, and real-time order tracking, **The Ultimate Shopping** ensures a hassle-free and trustworthy shopping environment.

By prioritizing user experience and security, **The Ultimate Shopping** strives to become a preferred destination for online shoppers, enhancing the way people engage with E-commerce platform signifies the epitome of modern convenience and accessibility. With a vast array of products at your fingertips, from gadgets to fashion, this digital marketplace is meticulously designed for effortless navigation. Its user-friendly interface enables a seamless experience, especially on mobile devices.

Security is paramount, ensuring every transaction is encrypted and protected. Personalization takes center stage, offering tailored recommendations to users, enhancing their shopping experience. Customer support is available around the clock, and real-time order tracking adds transparency and trust apart is its commitment to sustainability. Eco-friendly products and packaging options align with environmental consciousness, appealing to the socially responsible consumer.

In essence, E-shopping transforms shopping into an immersive, secure, and eco-conscious experience, where users can explore, engage, and indulge in a world of choices, all from the comfort of their screens.

सार

इस डिजिटल युग में, ई-कॉर्मस ने उपभोक्ताओं को अद्वितीय सुविधा प्रदान करते हुए खुदरा परिवृश्य को नया आकार दिया है। हमारा प्रोजेक्ट, "द अल्टीमेट शॉपिंग" नामक एक ई-कॉर्मस प्लेटफॉर्म का उद्देश्य एक सहज और सुरक्षित ऑनलाइन शॉपिंग अनुभव प्रदान करना है।

अल्टीमेट शॉपिंग उपयोगकर्ता की सादगी, सहज डिजाइन और सुरक्षा पर केंद्रित है। यह फैशन पहनने वालों से लेकर अभूषणों तक उत्पादों की एक विस्तृत शृंखला पेश करता है। उपयोगकर्ता के अनुकूल इंटरफ़ेस, मजबूत सुरक्षा प्रोटोकॉल और वास्तविक समय ऑर्डर ट्रैकिंग के साथ, द अल्टीमेट शॉपिंग एक परेशानी मुक्त और भरोसेमंद खरीदारी वातावरण सुनिश्चित करता है।

उपयोगकर्ता अनुभव और सुरक्षा को प्राथमिकता देकर, द अल्टीमेट शॉपिंग ऑनलाइन शॉपर्स के लिए एक पसंदीदा गंतव्य बनने का प्रयास करता है, जिससे लोग ई-कॉर्मस प्लेटफॉर्म के साथ जुड़ते हैं जो आधुनिक सुविधा और पहुंच का प्रतीक है। गैजेट्स से लेकर फैशन तक, आपकी उंगलियों पर उत्पादों की एक विस्तृत शृंखला के साथ, यह डिजिटल मार्केटप्लेस सावधानीपूर्वक सहज नेविगेशन के लिए डिज़ाइन किया गया है। इसका उपयोगकर्ता-अनुकूल इंटरफ़ेस विशेष रूप से मोबाइल उपकरणों पर एक सहज अनुभव सक्षम बनाता है।

सुरक्षा सर्वोपरि है, यह सुनिश्चित करना कि प्रत्येक लेनदेन एन्क्रिप्टेड और संरक्षित है। वैयक्तिकरण केंद्र स्तर पर है, उपयोगकर्ताओं को अनुरूप अनुशंसाएँ प्रदान करता है, उनके खरीदारी अनुभव को बढ़ाता है। ग्राहक सहायता चौबीस घंटे उपलब्ध है, और वास्तविक समय ऑर्डर ट्रैकिंग पारदर्शिता और विश्वास जोड़ती है, इसके अलावा स्थिरता के प्रति इसकी प्रतिबद्धता भी है। पर्यावरण-अनुकूल उत्पाद और पैकेजिंग विकल्प पर्यावरणीय चेतना के अनुरूप हैं, जो सामाजिक रूप से जिम्मेदार उपभोक्ता को आकर्षित करते हैं।

संक्षेप में, ई-शॉपिंग खरीदारी को एक गहन, सुरक्षित और पर्यावरण के प्रति जागरूक अनुभव में बदल देती है, जहां उपयोगकर्ता अपनी स्क्रीन के आराम से विकल्पों की दुनिया का पता लगा सकते हैं, संलग्न हो सकते हैं और उसमें शामिल हो सकते हैं।

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Chapter 1- Introduction

In an era dominated by digital transformation, E-commerce has emerged as a pillar of modern business operations. **The Ultimate Shopping** is a fashion website that is all about changing how people interact with fashion on the internet in different and exciting way. At present, the demand for convenient and accessible shopping experiences is rapidly rising. With this thought in mind, our project's vision is to bridge the gap between fashion enthusiasts and the latest trends, offering a seamless platform where users can explore, discover, and acquire their desired fashion products with ease. This website will provide simple and attractive interfaces for new and old customers so that they can browse their desired products easily and go through our website in a simple manner. Our website serves as a virtual storefront, welcoming users into a exciting and diverse marketplace curated to suit to their unique taste and preferences.

1.1 Problem Identification

In today's fast-paced world, fashion industry is undergoing in an enhancement phase due to enhancement in technology, consumer behaviors and changing market dynamics. Traditional marketplace is over-shadowed by digital marketplace because digital platforms offer greater convenience, accessibility and choice to consumer.

Changing Customer Behavior: Due to rise of digital gadgets like mobiles, tablets have fundamentally transformed the way consumer interact with brands and make purchasing choices, and checks which trends is going on so there is a need of online platform which offers them the solutions for their demand.

Shift Towards Online Shopping: COVID pandemic has enhanced the adoption of online shopping, with many consumers turning towards e-commerce platforms as a safer side alternative to traditional retailing. This shift has highlighted the need for reliable online platform that can meet the increasing demand for fashion products while providing a seamless and secure shopping experience.

Innovation and Uniqueness: In a crowded marketplace, uniqueness is the key to success. By embracing innovation and emergence of technologies like artificial intelligence, data analytics, fashion brands and retailers can create unique experience that set them apart from the competition.

Selection and Variety: There is a need of different varieties for customers according to their need and of different brand so it should be available on a single platform where user can experience different products with customized design according to their requirement at a reasonable price.

In contrast of these trends and market dynamics, **The Ultimate Shopping** project recognizes the need for a comprehensive and user-centric e-commerce platform that provides evolving needs and preferences of fashion worldwide.

1.2 Parent Organization

Numeric Infosystem Private Limited: We're Building Modern and High Software

Numeric is a global information technology solutions company offering progressive end-to-end software development, android development web application, e-commerce development, technical support, testing data & analytic consulting solutions by combining our business domain experience. An outsource with approximately 1400 people serving clients in more than 80 countries worldwide.

We focus on providing complete solutions by using our experience, technical skills, and knowledge of the latest trends. Our services cover a wide range of industries like advertising, finance, healthcare, and many more.

We prioritize our clients and strive to earn their trust by following established practices and staying updated with new technologies. Our goal is to continuously improve and deliver high-quality solutions efficiently and effectively. We have a streamlined process for developing products, ensuring they meet our clients' needs in terms of quality, cost, and time. We specialize in creating custom web and mobile applications, as well as software, to help businesses become more efficient and profitable.

Innovation is ingrained in our DNA, and we continually strive to stay ahead of the curve by embracing emerging technologies and industry best practices. This commitment to innovation allows us to offer cutting-edge solutions that empower our clients to thrive in today's dynamic.

Our product development methodology is highly efficient, enabling us to deliver high quality solutions at competitive costs and within tight timelines. Whether it's developing custom web-applications, mobile apps, or software solutions, we're dedicated to enhancing our clients' business processes and delivering a substantial return on investment.

One of the core strength lies in our ability to translate ideas into tangible IT solutions. Our team of skilled professionals is adept at turning concepts into reality, leveraging the latest technologies and trends to create innovative solutions that drive business success. At numeric we are committed to surpassing our clients' expectations and setting new benchmarks for excellence in the industry. Our long-standing relationships with clients are a testament to our commitment to delivering comprehensive, cost-effective, and high-quality solutions that drive tangible business outcomes.

In summary, Numeric is not just a technology partner but a trusted advisor committed to helping businesses succeed in today's digital age. With our expertise, dedication and customer-centric approach, we are poised to be the preferred choice for organizations seeking transformative IT solutions.

1.3 Hardware and Software Specifications

1.3.1 Hardware Specification

Hardware Requirement - To guarantee optimum performance and dependability, we have specified precise specs for the hardware needed for our project. First, we have a Core i5 CPU from the 5000 series, which has a frequency of 2.30 GHz. This processor has a strong processing capacity, which is necessary to effectively manage the computational needs of our project. Our system will have enough memory to facilitate multitasking and manage big datasets with ease when combined with 8 GB of RAM. We will use a 512 GB hard disk drive to store our project files and data, which will be enough storage for our purposes. We'll also include a 512 GB SSD (Solid State Drive), which improves overall system performance and provides quicker data access rates. Our system will run on a 64-bit OS X64 H Processor to maximize performance and ensure compatibility with contemporary software. With these hardware requirements in place, we can start our project with confidence since we know that our system can handle the demands of our jobs in an effective and efficient manner.

1.3.2 Software specification

Window 11 operating system: The decision to utilize Windows 11 as the operating system stems from its advanced features, enhanced security measures, and improves user interfaces, with its modern design and optimized performance, it provides a stable and secure environment for software development.

Visual Studio Code: As the primary coding environment, VS Code offers a plethora of features tailored for modern development workflows. Its support for various programming languages, extensive libraries of extensions, and integrated version control systems streamline the coding process, fostering productivity and collaboration among team members.

MySQL Workbench: The selection of MySQL workbench for database management ensures efficient handling of data throughout development lifecycle. Its intuitive graphical user interface simplifies tasks such as database design, modelling, and administration, empowering developers to create and optimize databases with ease. Additionally, its compatibility with Windows 11 ensures seamless integration into the development environment.

Postman: Postman emerges as a critical tool for API testing and validation, crucial components in today's interconnected software ecosystem. Its intuitive interface allows developers to design, test, and debug APIs effortlessly, ensuring the reliability and scalability of software. It increases efficiency of testing. With features such as automated testing, real-time monitoring, and collaboration capabilities.

By leveraging the capabilities of Windows 11, VS Code, Workbench and Postman, the software development process is poised for scalability and optimal performance. Whether it's handling large volumes of data, testing complex APIs, or deploying software across diverse environments, this robust software stack provides the necessary tools and resources to meet the demands of modern software development. In conclusion, the combined utilization of Windows 11, Workbench, VS Code, Postman forms a cohesive and powerful software development environment, equipped to tackle the challenges of today's dynamic and interconnected digital landscape.

Chapter 2- System Analysis

2.1 Problem Analysis

In today's fast-paced world, fashion industry is undergoing in an enhancement phase due to enhancement in technology, consumer behaviors and changing market dynamics. Traditional marketplace is over-shadowed by digital marketplace because digital platforms offer greater convenience, accessibility and choice to consumer.

Fragmented Shopping Experience: Customer may face difficulty when they have to physically visit the stores to buy products and those stores have a limited reach, while this website can serve globally. When there is lack of comprehensive information customer hesitate to buy the product. We provide detailed product description that include specification, features and other relevant information.

Personalization Factor: Traditional e-commerce platforms often lack of ability to deliver personalization recommendation and content to individual and trending preferences. As a result, users may feel overwhelmed by their desired choice or miss out on discovering products.

Complexity of Payment and Checkout Process: It includes multiple steps, form fields, and payment options can resist users from completing purchases. Security concerns are there regarding shipping cost and delivery times further create problem more.

Cart: Here user can add their products to cart whenever they want to purchase it. It allows user to modify quantity i.e. enables user to add/remove item before final purchase, enhancing user experience. Allow user to collect desired item for purchase without immediately committing to buy them.

2.2 Feasibility Study

2.2.1 Economical Feasibility Study

Personnel Expenses

S.no	Personnel Expenses	Cost
1	System Analyst (1) [8 days/month]	5000/-
2	Programmer (1) [25 days/month]	5000/-
3	Database Specialist (1) [10 days/month]	3000/-

Total	
	13000/-

Other Expenses

Other Expenses		Cost
S.no		
1	Electricity (200 unit @ 8rs/unit)	1600/-
2	Stationary (for documentation)	500/-
3	Workspace facility (table, chairs)	1500/-
4	Wi-fi	1500/-
	Total	5100/-

Hardware & Software expenses

S.no.	Specification	Cost
1.	Development Server (Express JS)	3000/-
2.	Server Software (O.S.)	1000/-
3.	DBMS Server (MYSQL)	1000/-
	Total	Rs. 23,100/-

2.2.2 Technical Feasibility Study

Programming Languages

S.no.	Specification	Details
1.	Frontend	ReactJS, Material UI

2.	Backend	Express JS
3.	Database	MySQL

Hardware Requirements

S.no.	Specification	Description
1.	Processor	Intel core i5 and above generation
2.	RAM	Up to 8 GB
3.	SSD	256 GB
4.	Hard-disk	1TB

Software requirements

S.no.	Specification	Description
1.	Front-End	React JS, CSS
2.	Back-End	Express JS
3.	Application	Visual Studio Code, MySQL workbench
4.	Operating System	64 bit (Window 11)
5.	Network	MySQL

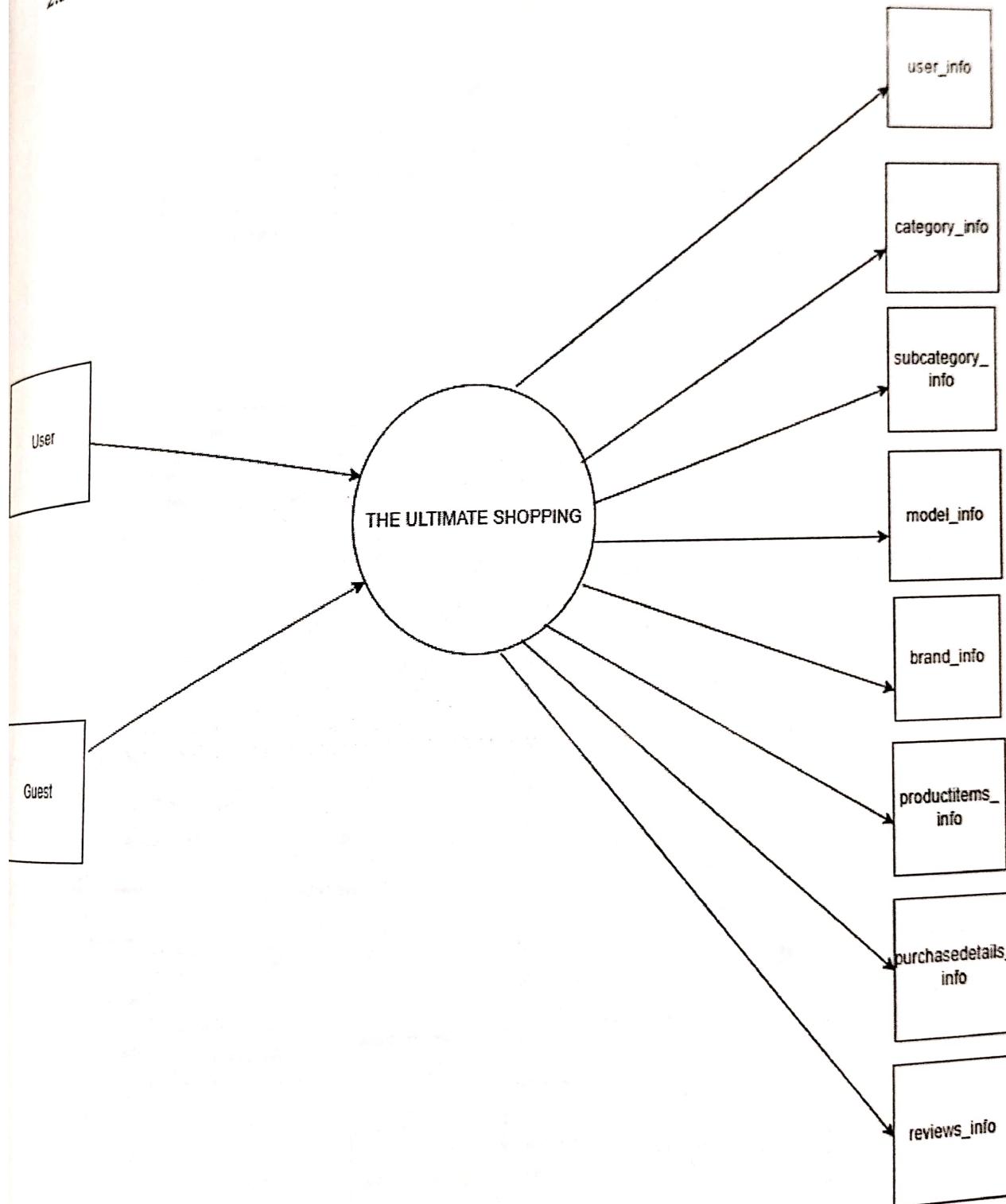
2.2.3 Behavioral Feasibility Study

The project aims at maximizing the customer friendliness. The application does not require special guidance and all opinions contained in the application are descriptive in nature. The users are well guided with warning and failure messages for all the action taken.

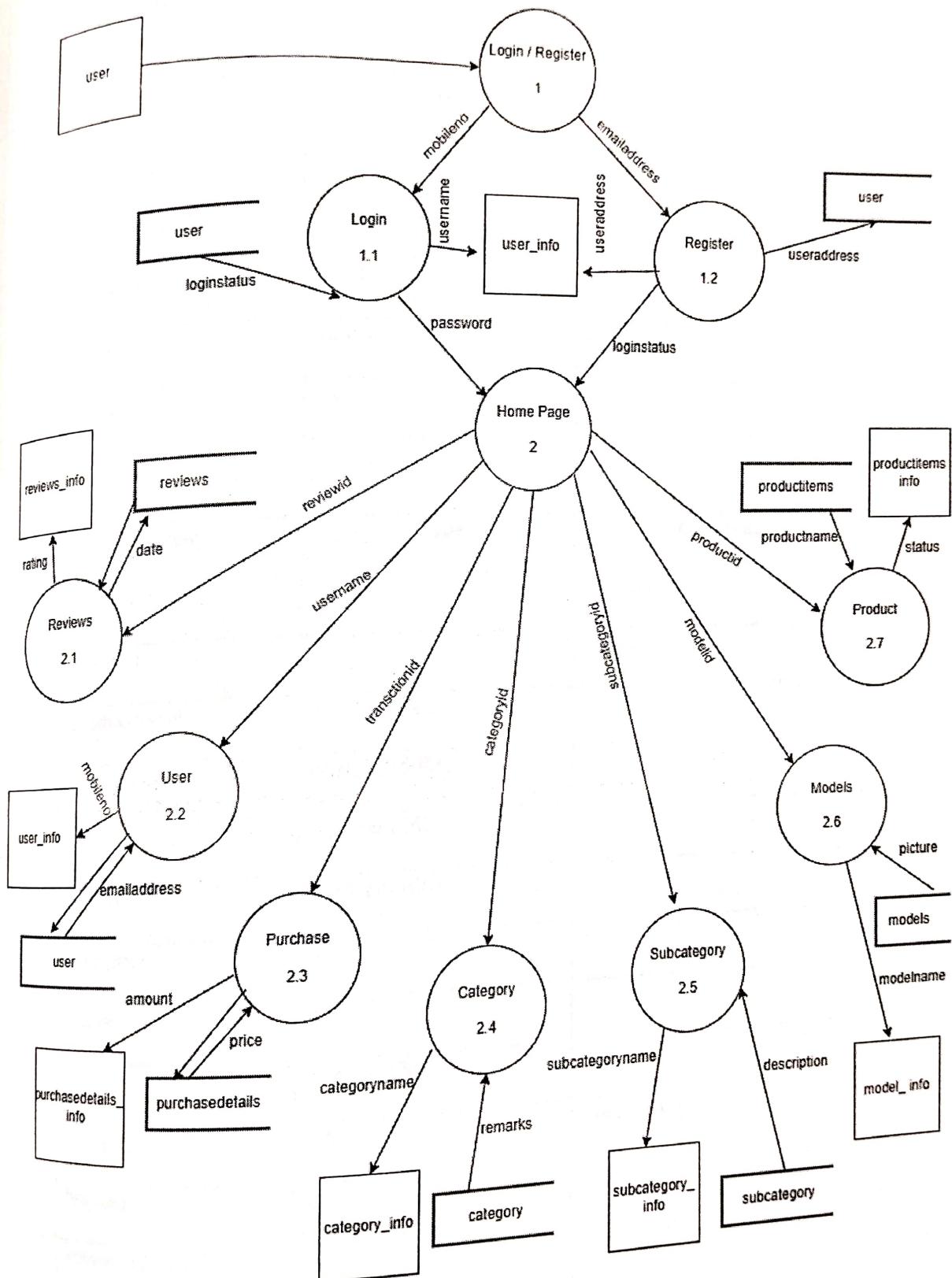
- A. This platform is easy to use, convenient and provide value to customers and will be solve issues like privacy, security and trust. It also evaluates user's perception of the value they receive from the products or service offered. It includes features like pricing, discounts, quality etc.
- B. It will provide detailed product information, customer reviews, ratings and transparent return/refund policies to build trust with potential buyers. Offer customer support through mail or phone to assist users with their respective queries.
- C. We would be providing user training session so as to facilitate easy adoption of shopping website. Determine if the website provides convenience in terms of browsing products, adding items to the cart, and completing transactions. A seamless shopping-experience influences users positively.
- D. Our website makes 24*7 with proper accessibility to user without any inconvenience it is quite scalable. Scalability doesn't affect over functionality. Implement feedback forms and surveys to gather user opinions and suggestions. Act on this feedback to enhance the user experience continually. Implement personalization features such as user account dashboards, personalized product recommendations, and targeted marketing emails to enhance user engagement.

2.3 Data Flow Diagram

2.3.1 DFD 0



2.3.2 DFD 1 For User



Chapter 3- System Design

3.1 Table Structure

a) category

S.no	Field	Type	Constant
1.	categoryid	int	Primary key
2.	categoryname	Varchar (20)	-
3.	gstpercent	Varchar (70)	-
4.	picture	varchar (20)	-
5.	remarks	int	-

b) productitems

S.no	Field	Type	Constant
1.	productid	int	Primary key
2.	modelid	int	Foreign key
3.	productname	Varchar (70)	-
4.	description	Varchar (500)	-
5.	price	Varchar (20)	-
6.	picture	Varchar (100)	-
7.	offerprice	int	-
8.	rating	int	-
9.	status	Varchar (20)	-
10	categoryid	int	Foreign key
11	brandid	int	Foreign key
12	subcategoryid	int	Foreign key

13	totalstock	int	Foreign key
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c) subcategory

S.no	Field	Type	Constant
1.	subcategoryid	int	Primary key
2.	categoryid	int	Foreign key
3.	subcategoryname	Varchar (70)	-
4.	descriptionn	Varchar (500)	-

d) models

S.no	Field	Type	Constant
1.	modelid	int	Primary key
2.	brandid	int	Foreign key
3.	modelname	Varchar (70)	-
4.	descript	Varchar (500)	-
5.	picture	varchar (200)	-
6.	subcategoryid	int	Foreign key

e) brand

S.no	Field	Type	Constant
1.	brandid	int	Primary key
2.	categoryid	int	Foreign key
3.	brandname	Varchar (70)	-
4.	description	Varchar (500)	-
5.	picture	varchar (200)	-

6.	subcategoryid	int	Foreign key
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g) reviews

S.no	Field	Type	Constant
1.	reviewid	int	Primary key
2.	rating	int	-
3.	mobileno	bigint	Foreign key
4.	review	Varchar (500)	-
5.	productid	int	Foreign key
6.	date	Varchar (50)	-

g) user

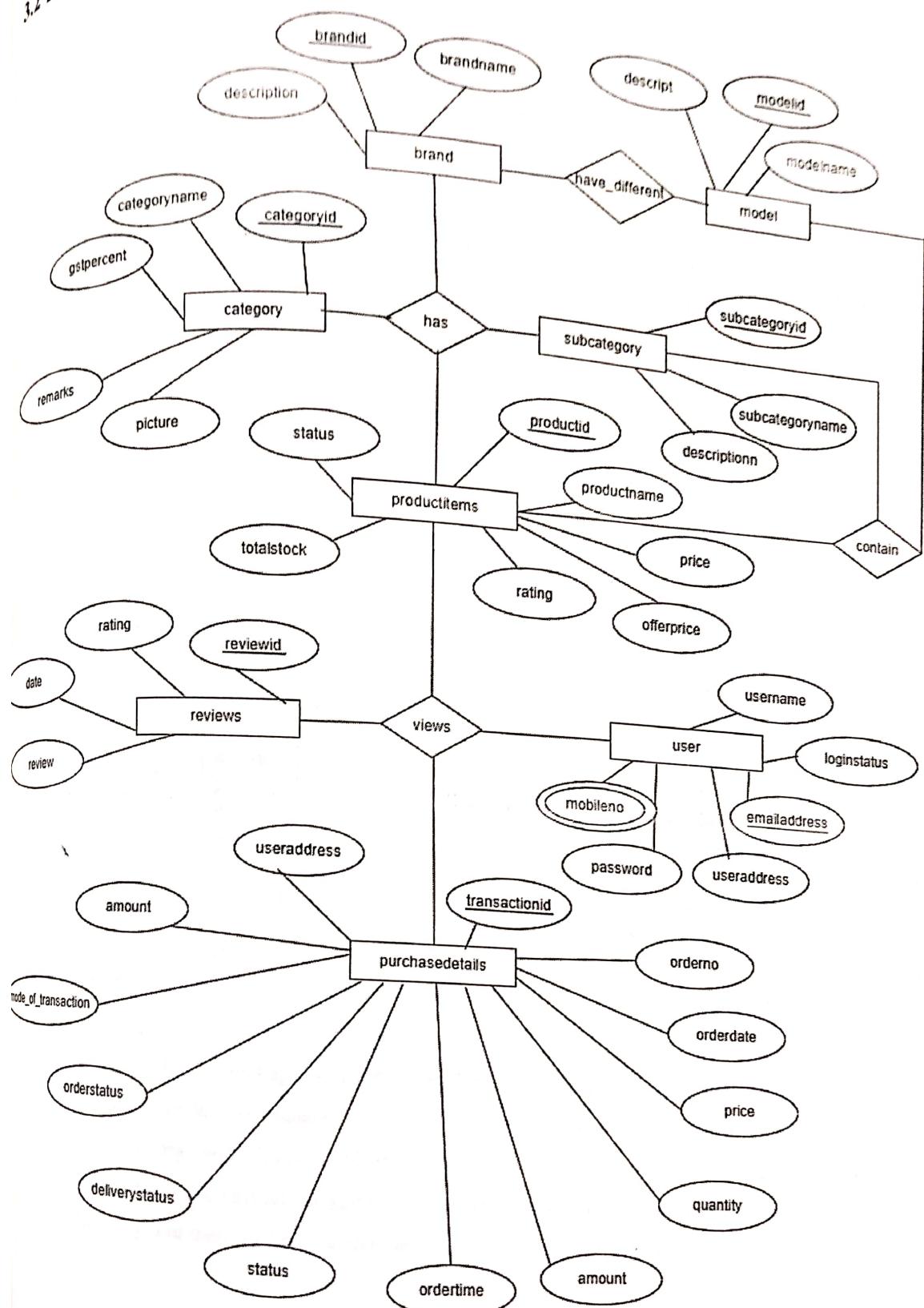
S.no	Field	Type	Constant
1.	mobileno	int	Primary key
2.	username	Varchar (100)	-
3.	emailaddress	Varchar (100)	-
4.	password	Varchar (100)	-
5.	loginstatus	Varchar (100)	-
6.	useraddress	Varchar (100)	-

h) purchaseddetails

S.no	Field	Type	Constant
1.	transactionid	int	Primary key
2.	orderno	int	-
3.	orderdate	Varchar (70)	-

4	price	Varchar (500)	-
5	quantity	int	-
6	amount	Varchar (100)	-
7	emailaddress	Varchar (100)	Foreign key
8	mobileno	Varchar (100)	Foreign key
9	ordertime	Varchar (20)	-
10	productid	int	Foreign key
11	status	Varchar (100)	-
12	deliverystatus	Varchar (100)	-
13	orderstatus	Varchar (100)	-
14	paymentmode	Varchar (100)	-
15	amountpaid	Varchar (100)	-
16	deliveryaddress	Varchar (100)	-

3.2 Entity Relationship Diagram



Chapter 4- Testing

4.1 Unit Testing

We are doing the unit testing on every small unit of the website individually to verify the proper working. We do every type of inputs to check their outputs, and its functioning. We performed these tests on user login.

Test Cases

Test case ID	Section	Element name	Testdata	Expected result	Actual result
1	User Login	emailaddress, password	No Data	Please fill this field.	Test case passed.
		emailaddress, password	saurav@gmail.com/*****	Error Occurred.	Test case passed.
		emailaddress, Password	saurav@gmail.com/****	Successfully logged in.	Test case passed.
2	User Signup	username, mobileno, password useraddress	No Data	Please fill out this field.	Test case done
		username, password mobileno useraddress	saurav@gmail.com/***	Error Occurred.	Test case passed
		username, useraddress, password, mobileno	saurav@gmail.com/****	Successfully Registered	Test case passed

The login button on the Login Page is disabled by default until the user enters both their valid email and password in the input fields. This measure ensures that the admin has provided the required information before attempting to log in. Once both fields are filled, the user is able to log in and access the dashboard, but only if the entered data is valid and correct. Logging in as a user will navigate to the user dashboard, and will allow users to make changes to their profiles, orders, and access the available features.

4.2 System testing

System Testing is a comprehensive software testing phase where the entire integrated system is tested as a whole to validate its behavior and functionality against specified requirements.

a. Functional Testing: Functional Testing involves validating that each function of software application operates as expected, adhering to defined requirements and specification.

<u>Test Case ID</u>	<u>Test Case Scenario</u>	<u>Input / Test Data</u>	<u>Pass Condition</u>	<u>Fail Condition</u>	<u>Test Result</u>
1	Search Functionality	Click on specific category related to search product.	Relevant data is displayed.	Irrelevant record or error displayed	Pass
2	Pagination Functionality	Pagination control allow users to navigate through multiple pages.	Users can navigate through pagination control.	Pagination control doesn't allow users to navigate.	Pass
3	Billing Functionality	Billing Generation.	Generated Bill contains accurate and meaningful insights.	Inaccurate or false information present.	Pass

b. Non-Functional Testing: Non-Functional Testing focuses on evaluating aspects such as performance, usability, security and error handling of software ensuring it meets quality attributes beyond functional requirements.

i. Performance Testing

<u>Test Case ID</u>	<u>Test Case Scenario</u>	<u>Test Description</u>	<u>Pass Condition</u>	<u>Fail Condition</u>	<u>Test Result</u>
1	Response Time Testing	Measure System Response Time	Responses are generated within acceptable time frames.	Response time exceeds threshold.	Pass

iii. Usability Testing

<u>Test Case ID</u>	<u>Test Case Scenario</u>	<u>Test Description</u>	<u>Pass Condition</u>	<u>Fail Condition</u>	<u>Test Result</u>
	User Interface Testing	Evaluate UI Design and Usability	User can easily navigate through system and perform task without confusion and frustration.	UI is cluttered and confusing, leading to errors and user dissatisfaction.	Pass

iii. Security Testing

<u>Test Case ID</u>	<u>Test Case Scenario</u>	<u>Test Description</u>	<u>Pass Condition</u>	<u>Fail Condition</u>	<u>Test Result</u>
	Authentication Testing	Verify User Authentication	Users are granted access only with valid credentials.	Allowing unauthorized access.	Pass
	Authorization Testing	Test Access Controls	User can access only the resources authorized for their roles and permissions.	Users can access unauthorized resource and perform unauthorized actions, indicating a failure in access controls.	Pass

4.3 Compatibility Testing

Compatibility testing refers to the process of testing its compatibility across different platforms, devices, browsers, operating system, and network environments. The objective is to ensure that the website functions work properly and consistently for users.

Test Cases

Test Scenario	Element Name	Element Type	Input	Expected Result	Actual Result	Test Result
1	Device Compatibility	Responsiveness on different devices	Checking Responsiveness on devices for e.g., Laptops, tablets, Smartphones	Website will adapt different screen sizes on different devices without any disbalancing	As expected, the website is full responsive and working perfectly	Passed
2	Operating System Compatibility	Checking website behavior on different operating systems	Working on different Operating Systems e.g., Android systems, macOS, iOS, Windows, etc.	There shouldn't be any changes in website Designing, Working, Accessibility and Performance speed, while switching the Operating System	As Expected, The Website is working all same even on different Operating System expect Linux operating system	Passed
3	End-user Security	Data Security	Testing security measures of users	The logged in user will be able to see his/her own details related information only or correct user-profile is opened for user while logging in	As Expected, Details of login Email is shown, no details of other user are visible to all. Hence Secured	Passed

Chapter 5- Implementation

5.1 Visual studio Code

- a. Firstly go to the official website of visual studio code <https://visualstudio.microsoft.com/downloads>.
- b. Now select the one which you want to install according to your system click on the download button.
- c. Now click on install button
- d. Follow up installation process and choose options that are suitable to your need
- e. Click on exit

5.2 MySQL Workbench

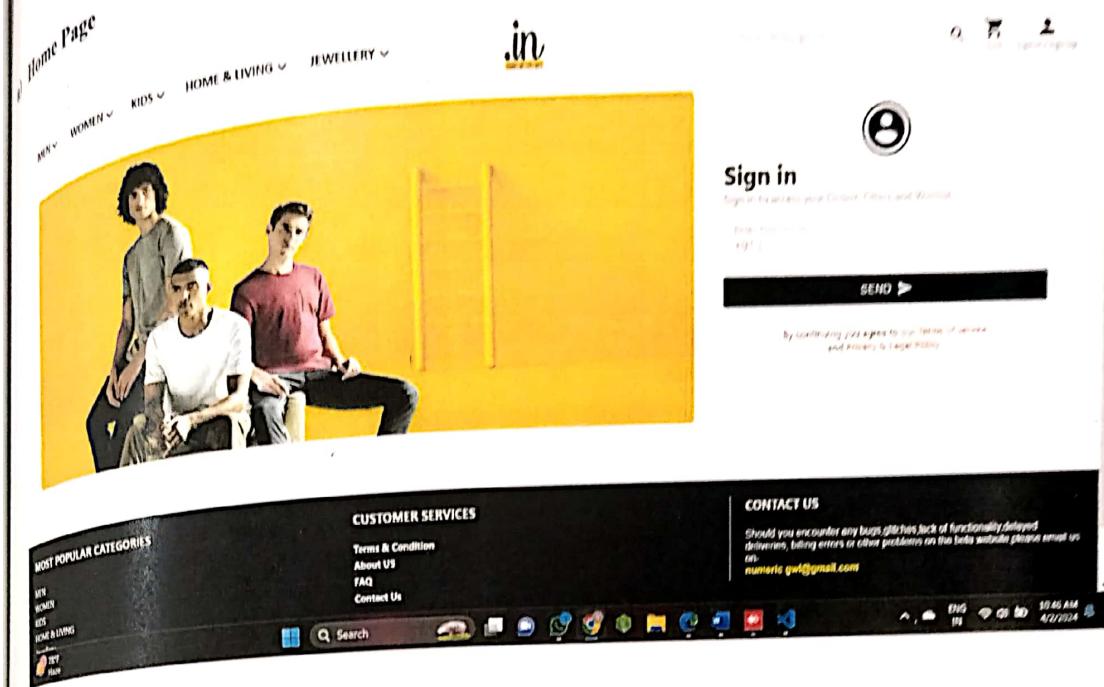
- a. First go to the official website of MySQL <https://www.mysql.com>.
- b. There you will find the download button
- c. Then click on MySQL community (GPL) downloads
- d. Click on MySQL installer for windows
- e. Click on the first download link
- f. Then click on the custom button
- g. Expand MySQL server then expand MySQL server 8.0
- h. Then double click on the latest version
- i. Click on next
- j. Click on execute
- k. Set your password click on next
- l. Then automatically MySQL workbench window will open

5.3 Express JS

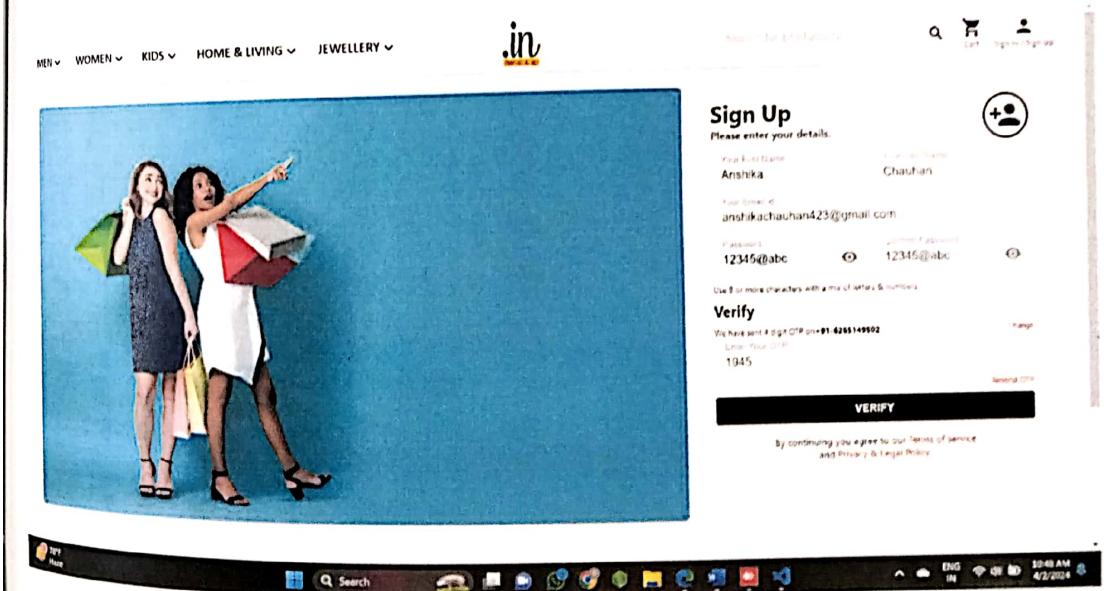
- a. Firstly, go to the official website of Node.js <https://nodejs.org/en/download/>
- b. Click on running Node.js installer.
- c. Then Node.js setup wizard will be open.
- d. Set the destination folder where you want to install Node.js select next.
- e. Click on next and then finish.
- f. Verify the Node.js properly installed or not.
- g. Then update the local npm version.

The project runs from Home Page there user will have the option of user login and about us. Once the user click on user login the option to enter mobile no then will receive an one-time-password after entering correct OTP then he will be navigated to the user page. An invalid username and password will give error. In user page user have the dashboard in which one can maintain and update their profile can see their order history and many more. User have the option of category and product search etc after selecting a product, it will move to the cart the user have to carry on with the place order option in which user has to verify the address and have to select the mode of payment either cash on delivery or online payment. One can also track their orders and see previous order history. The dashboard will be visible to authorized user only based on the login credentials. The dashboard will help user to easy go through to their respective profiles.

Chapter 6- Sample Forms and Reports



b) Sign Up Page



HOME & LIVING JEWELLERY

THE 7 SHADES Special Offer

READ MORE

TRENDING NEAR YOU

WOMEN HOME & LIVING JEWELLERY

WOMEN Knit & Knits

Showing 11 / 11 items [All Products](#)

₹499.00 MRP: ₹1,499.00 77% OFF

₹369.00 MRP: ₹699.00 46% OFF

₹349.00 MRP: ₹1,499.00 77% OFF

₹429.00 MRP: ₹1,499.00 77% OFF

ADD TO CART ADD TO CART ADD TO CART ADD TO CART

Product Description

MR. MARSHAL HOME & LIVING > JEWELLERY >



View Details



Human Printed Viscose Rayon Anarkali Kurti (Black) - Dark Matter

₹1,499.00

₹1,499.00 (100%)

0 item



View Details

Buy Now

View Details

ADD TO CART

MR. MARSHAL HOME & LIVING > JEWELLERY >

Filter

Sort by

Price

Product Type

Product Size

Gender

Color

Cart

MR. MARSHAL KIDS HOME & LIVING JEWELLERY



View Details



Filter

Sort by

Price

Product Type

Product Size

Gender

Color

Offer

Payment Details

WOMEN KIDS HOME & LIVING JEWELLERY

in

Payment

Order Summary

Have a coupon/referral code?

Order Coupon Codes

Flat ₹100 off on orders above ₹1000 (FLAT100)

CHANGE ADDRESS

Order Summary (1 items)

Women Printed Viscose Rayon Anarkali Kurta (Black) - Dark Matter

MRP: ₹499.00
Price: ₹349.00
You Save: ₹1,150.00 (77%)

Total: ₹349.00

Payment Details

Net Amount: ₹349.00

Product Discount: - ₹1,150.00

Delivery Charges: + ₹20.00

Total Amount: ₹369.00

Net Amount: ₹369.00

You will save ₹1,150.00 on this order.

MAKE PAYMENT

Payment

WOMEN KIDS HOME & LIVING JEWELLERY

Search for products here

Order Summary

Pay With UPI QR

Scan the QR using any UPI app on your phone.

QR Code is valid for 11:52 minutes.

Preferred Payment Methods

Netbanking - State Bank of India

UPI - Google Pay

UPI / QR

Card

₹ 349

Payment Details

MRP: ₹499.00

Product Discount: - ₹1,150.00

Delivery Charges: + ₹20.00

Total Amount: ₹369.00

Coupon Applied: - ₹0.00

Net Amount: ₹369.00

You will save ₹1,150.00 on this order.

Choose Payment Method

Cash on Delivery Online Payment

CONFIRM ORDER

Dashboard

WOMEN ▾ KIDS ▾ HOME & LIVING ▾ JEWELLERY ▾  Search for products name  Anshika

Personal Information
You can update your details.

Your First Name: Anshika

Your Last Name: Chauhan

Your Mobile No: 6265149502

Your Email Id: anshikachauhan423@gmail.com

UPDATE

By continuing you agree to our [Terms of service](#) and [Privacy & Legal Policy](#).

Logout

My Orders

WOMEN ▾ KIDS ▾ HOME & LIVING ▾ JEWELLERY ▾  Search for products name  Anshika

1 order had placed from your account

My Order	Total Amount Paid	Order No	Show Bill
Order Placed at Monday 01/04/2024 at 10:53 AM	₹349	T757	

By continuing you agree to our [Terms of service](#) and [Privacy & Legal Policy](#).

Logout

Chapter 7- Conclusion and Future Scope

In conclusion, **The Ultimate Shopping** project displays great promise towards service market place platform. Feasibility study has indicated that there is a substantial demand for the service offered, with opportunity for growth in the market the technical assessment has shown that the project can be executed with in the available resources and time line.

The behavioural study has provided valuable insights into user preferences and behaviours, enabling us to design a platform that is user-centric and lightly to drive engagement and satisfaction. We can create an environment where customer can be motivated to purchase product items and recommend the platform to other. As we move forward it is crucial to continually monitor user behaviours and market dynamic to adapt to changing needs and preferences. Mitigating potential risk and ensuring legal compliance will be ongoing priorities.

After that we have performed various testing to check the system performance software quality. Overall, **The Ultimate Shopping** project has the potential to be a successful and valuable addition to the fashion industry. With a user focused approach, a well-structured database, and a commitment to continuous improvement, we are poised to create a platform that enhance the way user find and book products while providing growth opportunities for service provider.

24/7 Availability: **The Ultimate Shopping** open 24/7, allowing customers to place orders at any time, including holidays and weekends. This flexibility is especially useful for last-minute orders and international deliveries.

Payment and Security: Customer usually compare prices, features and reviews of different products, enabling them to find the best deal. Secure payment gateways and a variety of option (credit/debit cards, wallets, etc.) make transaction seamless. Customer can complete purchases quickly and securely.

Personalization: It will offer users the ability to create personalized profiles. Registered users can manage their orders, track shipments, save favorite products, and receive tailored recommendations based on their purchase history and preferences. Online shopping eliminates the need for travel time, parking, and waiting in queues. Customers can find product swiftly, compare prices, and make purchases in a fraction of time it takes in physical stores.

Feedback: User can give their feedbacks regarding the project after receiving their products that will help in improving for future perspective that will help in improvement in a certain area and their satisfaction is our satisfaction.

Virtual Styling Services: Introduce virtual styling services where users can receive personalized fashion advice and outfit recommendations from professional stylists. This feature adds value to the platform by offering expert guidance and enhancing user engagement.

Social Commerce Integration: Enable social commerce features that allow users to shop directly from social media platforms such as Instagram and Pinterest. This integration leverages social media as a sales channel and facilitates seamless shopping experiences for users.

AI-Powered Recommendations: Enhance recommendation algorithms using artificial intelligence and machine learning techniques to provide more accurate and personalized product suggestions based on user preferences, browsing history, and purchase behavior.

Framework and Library Updates: Regularly update frameworks, libraries, and dependencies to the latest stable versions to benefit from bug fixes, performance enhancements, and new features. This includes frontend frameworks (e.g., React, Angular, Vue.js), backend frameworks (e.g., Django, Express.js, Ruby on Rails), and database systems (e.g., PostgreSQL, MongoDB, MySQL).

Bibliography

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[https://visualstudio.microsoft.com/downloads.](https://visualstudio.microsoft.com/downloads/)
<https://www.postman.com/>
<https://react.dev/>

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BRIEFLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	SAURAV SHARMA		Department	MCA	
Name of Organization	Numerie Technologies Pvt. Ltd		Date/Duration	01/01/24 - 15/01/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Quality/ Timely Completion of assigned work					✓
Conciseness/Knowledge of graduation				✓	
Quality of work				✓	
Discipline/Team work					✓
Conscientious/Hard work				✓	

Comment on nature of work done/Area/Topic	Discussed about technology used in Project as well as about the Database.
----------------------------------------------	---------------------------------------------------------------------------------

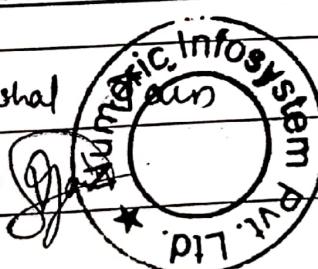
Overall Grade (Any	<u>POOR/AVERAGE/GOOD/VERYGOOD/EXCELLENT</u>
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Name of Industry Mentor	Vishal Jaiswal
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Name of Industry Mentor	
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Sign Date	16/1/24	Name of Faculty Mentor	PARUL SAXENA	Sign	S 16/1/24
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

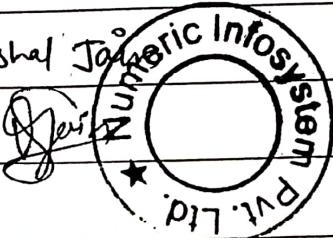
Name of student	SAURAV SHARMA		Department	MCA	
Industry/Organization	Numeric Infosystem Pvt Ltd.		Date/Duration	16/01/24 - 31/01/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Learned Connectivity with database and its operations				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Vishal 				
Signature of Industry Mentor					
Receiving Date	5/2/24	Name of Faculty Mentor	PARUL SAXENA	Sign	5/2/24

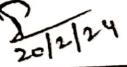
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

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Industry/Organization	Numeric Infosystem Pvt Ltd		Date/Duration	01/02/24 - 15/02/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Actuality/Timeliness of assigned work					✓
Capacity/Knowledge up gradation				✓	
Performance/Quality of work					✓
Teamwork/Discipline/Team work					✓
Sincerity/Hard work					✓

Content on nature of work done/Area/Topic	Completed React Setup, learnt how to handle Redux and integration
-------------------------------------------	-------------------------------------------------------------------

Overall Grade (Any)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT
Name of Industry Mentor	Vishal Jain
Signature of Industry Mentor	

Issuing Date	20/2/24	Name of Faculty Mentor	PARUL SAXENA	Sign	
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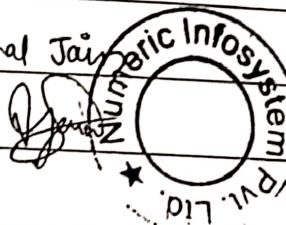
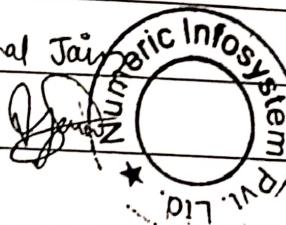
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WEEKLY PROGRESS REPORT (WPR) FROM INDUSTRY MENTOR

Name of student	SAURAV SHARMA		Department	MCA	
Organization	Numeric Infosystem Pvt Ltd		Date/Duration	16/02/24 - 29/02/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Quality/Timeliness of assigned work					
Capacity/Knowledge					✓
Graduation					
Quality of work				✓	
Discipline/Team work					✓
Energy/Hard work				✓	

on nature of work
Area/Topic

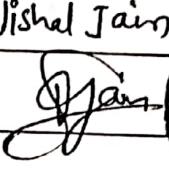
Started working on user module.
Completed Signup and login page.

GRADE (Any)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT	
Industry Mentor	Vishal Jain	
Signature of Industry Mentor	 	

Date	5/3/24	Name of Faculty Mentor	PARUL SAXENA	Sign	
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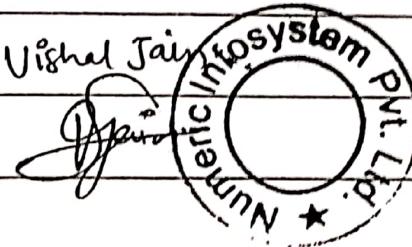
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

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Industry/Organization	Numeric Infosystem Pvt Ltd		Date/Duration	01/03/24 - 15/03/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Made Components of Category, produced Categories of Men.				
<u>Overall Grade (Any</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor	 				

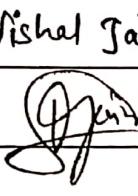
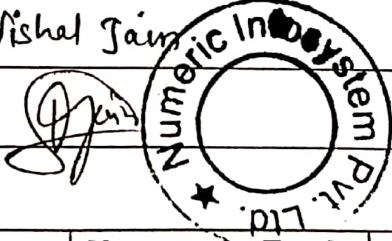
Living Date	21/3/24	Name of Faculty Mentor	PARUL SAXENA	Sign	
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Industry/Organization	Numeric Infosystem Pvt Ltd.		Date/Duration	16/03/24 - 21/03/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Worked on Cart. and dashboard.				
Overall Grade (Any)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor					
Living Date	3/4/24	Name of Faculty Mentor	PARUL SAXENA	Sign	

(+) 1

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	SAURAV SHARMA		Department	MCA	
Industry/Organization	Numeric Infosystem Pvt. Ltd		Date/Duration	01/04/24 - 15/04/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Implemented JWT and payment Gateway				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor	 				

Receiving Date	22/4/24	Name of Faculty Mentor	PARUL SAXENA	Sign	
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