

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
Deemed to be University
(Declared under Distinct Category by Ministry of Education, Govt. of India)
NAAC Accredited with A++ Grade



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

GWALIOR - 474005 (MP) Estd.1957

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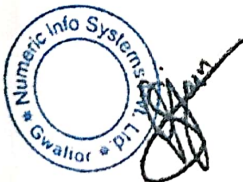
Date: 10/04/2024

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

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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.

S Sharma

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Master in Computer Application
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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-कॉमर्स ने उपभोक्ताओं को अद्वितीय सुविधा प्रदान करते हुए खुदरा परिदृश्य को नया आकार दिया है। हमारा प्रोजेक्ट, "द अल्टीमेट शॉपिंग" नामक एक ई-कॉमर्स 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 आभूषणों तक उत्पादों की एक विस्तृत श्रृंखला 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-कॉमर्स 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 श्रृंखला 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 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

| S.no | Other Expenses | Cost |
|------|------------------------------------|--------|
| 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.

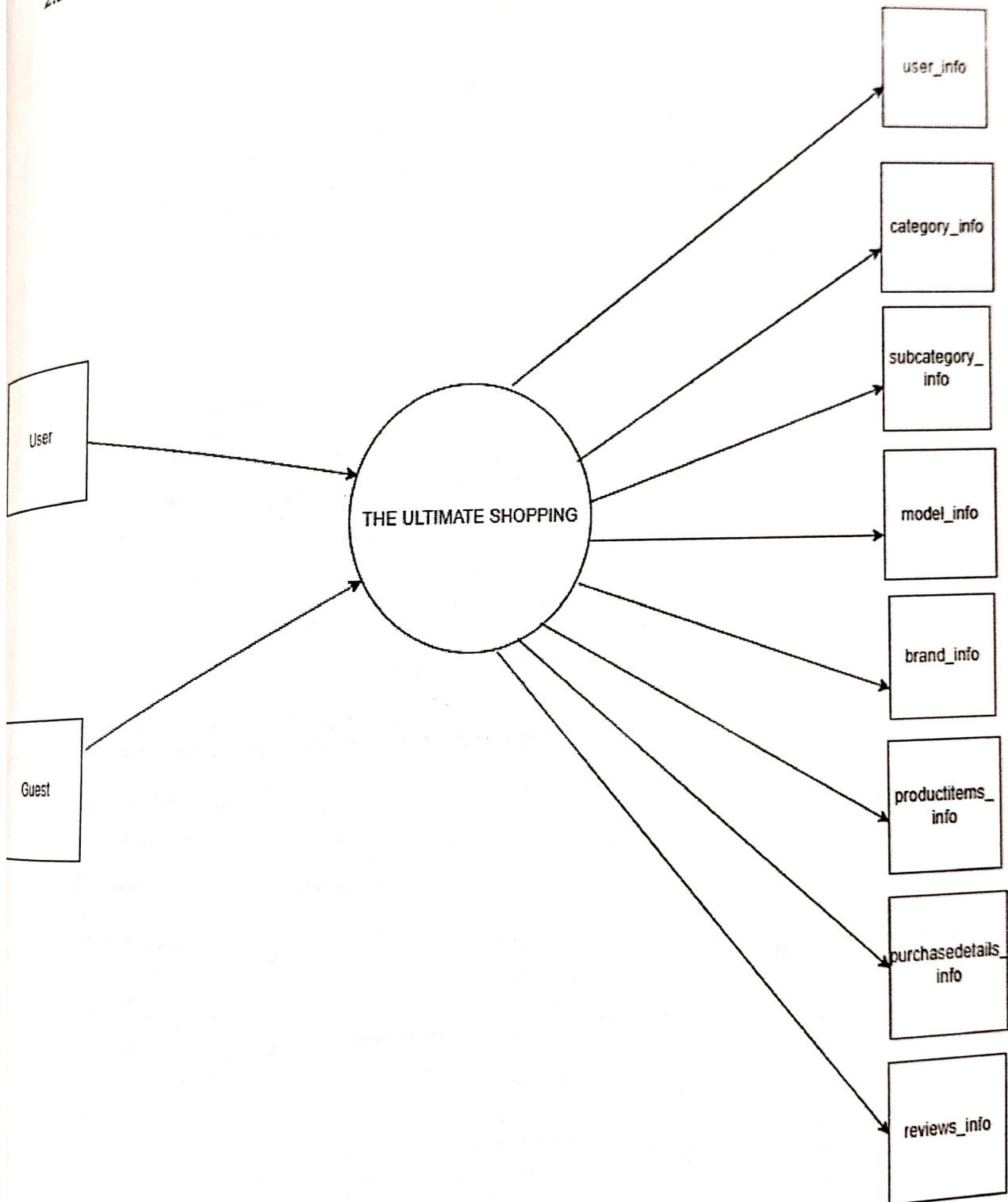
B. It will provide detailed product information, customer reviews, ratings and transparent return/refund policies to build trust with potential buyers. Offer customer support through mail or phone to assist users with their respective queries.

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.

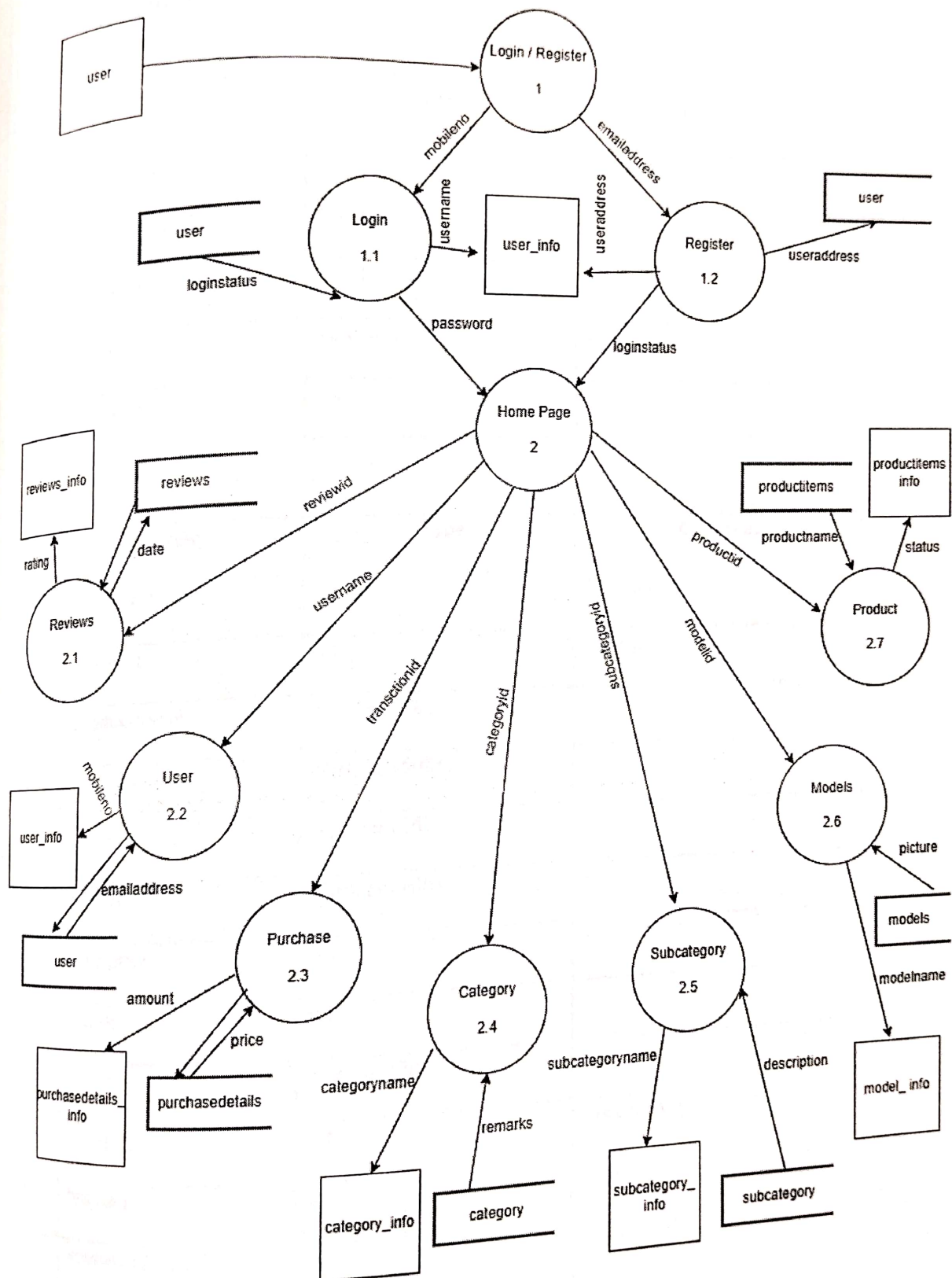
D. Our website makes 24*7 with proper accessibility to user without any inconvenience it is quite scalable. Scalability doesn't affect over functionality. Implement feedback forms and surveys to gather user opinions and suggestions. Act on this feedback to enhance the user experience continually. Implement 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 |
|----|------------|-----|-------------|

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 |
|----|---------------|-----|-------------|

f) reviews

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

g) user

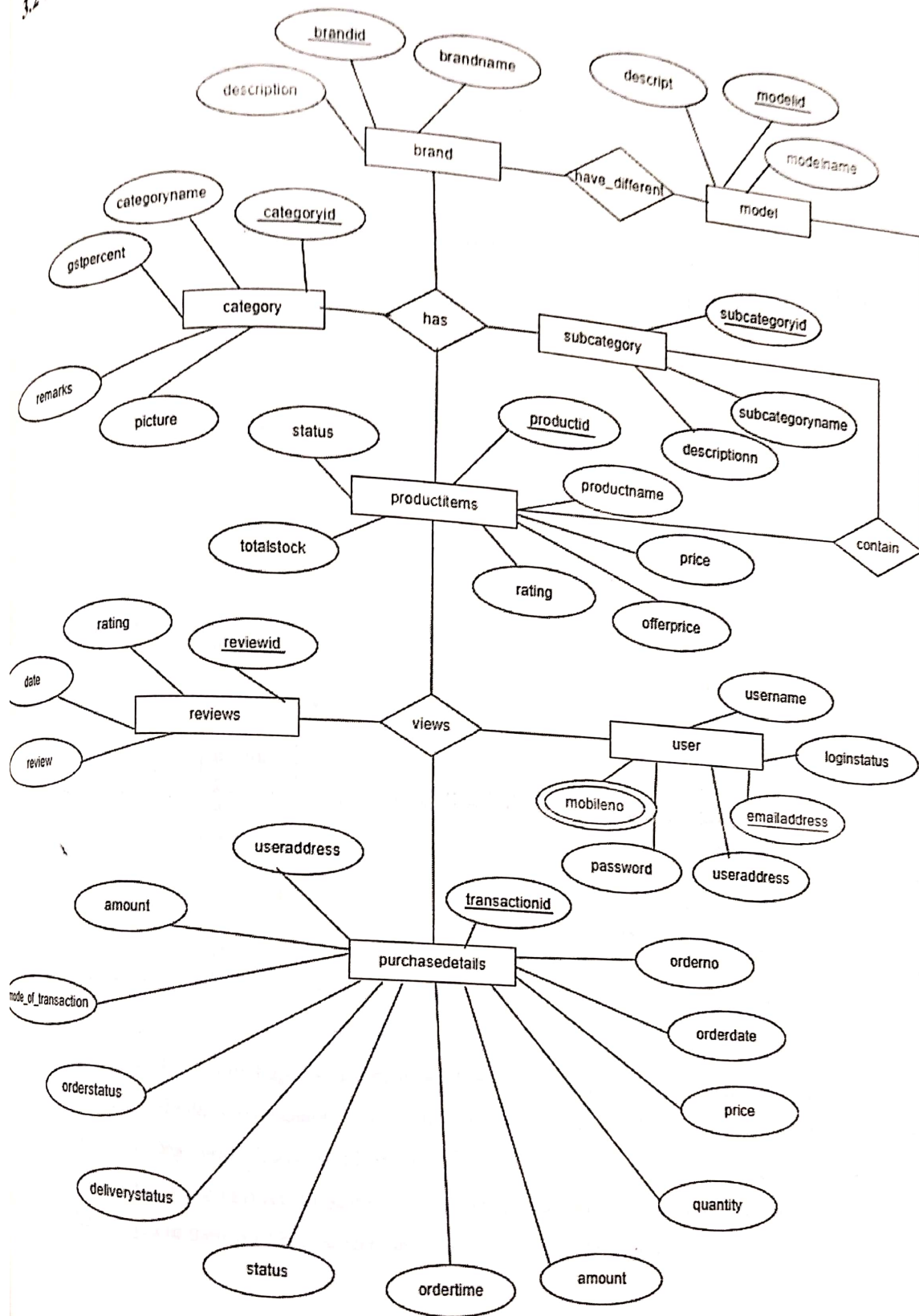
| S.no | Field | Type | Constant |
|------|--------------|---------------|-------------|
| 1. | mobilenno | int | Primary key |
| 2. | username | Varchar (100) | - |
| 3. | emailaddress | Varchar (100) | - |
| 4. | password | Varchar (100) | - |
| 5. | loginstatus | Varchar (100) | - |
| 6. | useraddress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

h) purchasedetails

| 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. | mobilen | 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 | sauravgmail.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 specifies 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 focusses 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 |

ii. 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

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

5.2 MySQL Workbench

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

5.3 Express JS

- Firstly, go to the official website of Node.js <https://node.js.org/en/download/>.
- Click on running Node.js installer.
- Then Node.js setup wizard will be open.
- Set the destination folder where you want to install Node.js select next.
- Click on next and then finish.
- Verify the Node.js properly installed or not.
- 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

Home Page

MEN WOMEN KIDS HOME & LIVING JEWELLERY

.in



Search for products



Sign in



Sign in

Sign in to access your account, orders and wishlist

Email:

or

Phone:

SEND

By continuing you agree to our [Terms of Service](#) and [Privacy & Target Policy](#)

MOST POPULAR CATEGORIES

NEW
WOMEN
KIDS
HOME & LIVING
JEWELLERY

CUSTOMER SERVICES

[Terms & Condition](#)
[About US](#)
[FAQ](#)
[Contact Us](#)

CONTACT US

Should you encounter any bugs, glitches, lack of functionality, delayed deliveries, billing errors or other problems on this beta website please email us at: munerica.gu4@gmail.com

Search  ENG IN 10:45 AM 4/2/2024

b) Sign Up Page

MEN WOMEN KIDS HOME & LIVING JEWELLERY

.in



Search for products



Sign in

Sign Up

Please enter your details.

First Name

Anshika

Last Name

Chauhan

Your Email

anshikachauhan423@gmail.com

Phone

12345@abc

Phone

12345@abc

Use 8 or more characters with a mix of letters & numbers

Verify

We have sent a sign OTP pin 01-6245149002

Enter Your OTP

1945

Resend OTP

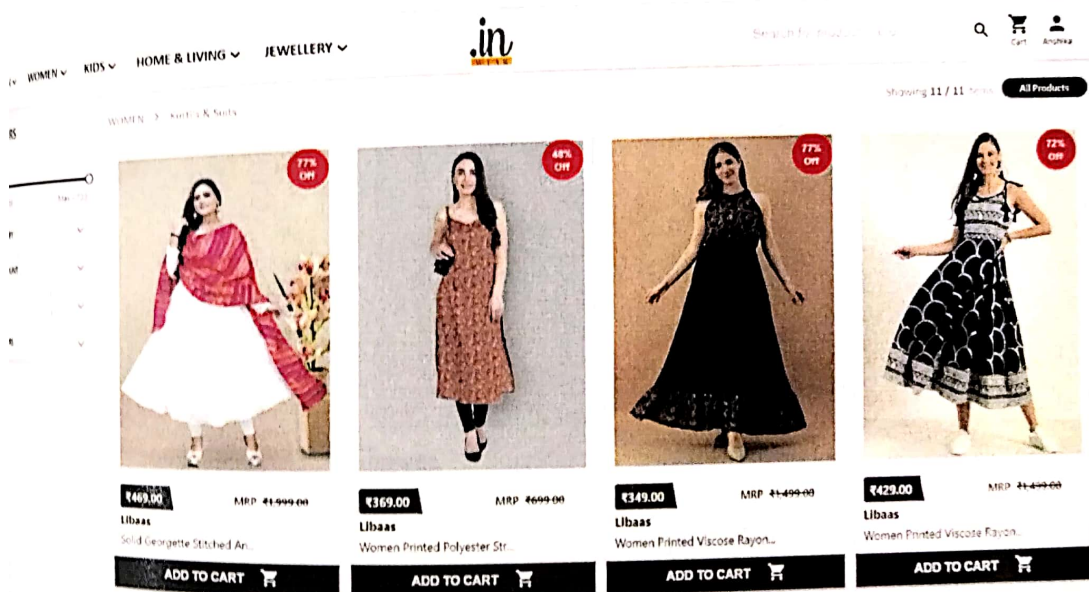
VERIFY

By continuing you agree to our [Terms of Service](#) and [Privacy & Target Policy](#)

Search  ENG IN 10:48 AM 4/2/2024



Category View



Women Category

HOME & LIVING JEWELLERY

.in

Search Cart Account



81% OFF

₹499.00 MRP ₹2,499.00

Libaas
Women Printed Viscose Rayon

ADD TO CART



77% OFF

₹465.00 MRP ₹2,199.00

Libaas
Women Paisley Viscose Rayon

ADD TO CART



77% OFF

₹458.00 MRP ₹1,999.00

Libaas
Women Floral Print Viscose

ADD TO CART



77% OFF

₹733.00 MRP ₹2,999.00

Libaas
Women Printed Pure Cotton E...

ADD TO CART



72% OFF



58% OFF



50% OFF

Men Category

HOME & LIVING JEWELLERY

.in

Search Cart Account

FILTERS

PRICE
Min - Max
SORT BY
DISCOUNT
SIZE
COLORS

Men > Jackets

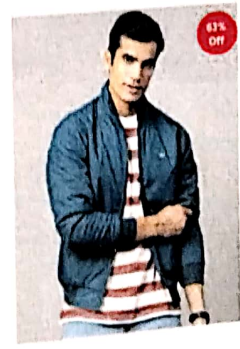


81% OFF

₹1,199.00 MRP ₹2,999.00

Roadster
Men Solid Padded Jacket

ADD TO CART



87% OFF

₹987.00 MRP ₹2,599.00

Roadster
Men Solid Bomber Jacket

ADD TO CART



81% OFF

₹919.00 MRP ₹2,299.00

Roadster
Men Solid Casual Jacket

ADD TO CART



81% OFF

₹719.00 MRP ₹2,299.00

Roadster
Men Solid Puffer Jacket

ADD TO CART

Product Description

WOMEN'S WEAR & LIFESTYLE JEWELLERY



Women's Printed V-neck Raglan Anarkali Kurta (Black) - Dark Khaki

5.0 (1)

Price: ₹ 149 (M)

MRP: ₹ 199 (M)

Shipping: ₹ 50.00 (₹ 75.00)

or Buy

Buy

ADD TO CART

Size
Length
Sleeve Length
Neckline
Fabric
Pattern

Cart

WOMEN'S WEAR & LIFESTYLE JEWELLERY



1 Item

1 Item



Women's Printed V-neck Raglan Anarkali Kurta (Black) - Dark Khaki

Price: ₹ 149 (M)

MRP: ₹ 199 (M)

Price: ₹ 149 (M)

1 Item

Price: ₹ 149 (M)

1 Item

Price: ₹ 149 (M)

MRP: ₹ 199 (M)

Price: ₹ 149 (M)

MRP: ₹ 199 (M)

Price: ₹ 149 (M)

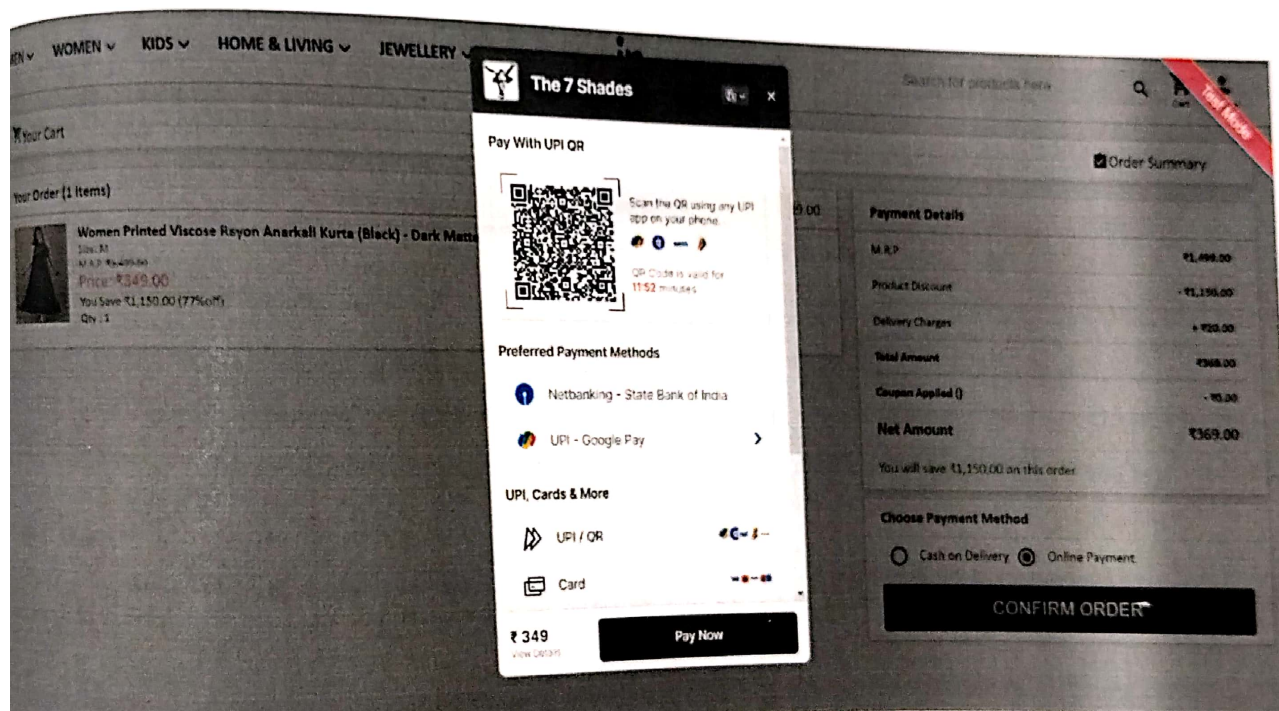
MRP: ₹ 199 (M)

Price: ₹ 149 (M)

PLACE ORDER



Payment



Hello,
Anshika Chauhan

Orders History

My Profile

Address

Logout

Personal Information
You can update your details.Your First Name
AnshikaYour Last Name
ChauhanYour Mobile No
6265149502Your Email Id
anshikachauhan423@gmail.com

UPDATE

By continuing you agree to our Terms of service
and Privacy & Legal Policy.

My Orders

Hello,
Anshika Chauhan

Orders History

My Profile

Address

Logout

My Order

Order Placed at
Monday 01/04/2024 at 10:53 AMTotal Amount Paid
₹ 349Order No
1757Show Bill
📄

1 order had placed from your account

By continuing you agree to our Terms of service
and Privacy & Legal Policy.

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 a 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://www.github.com>

<https://www.google.in/>

<https://www.W3school.co.in/>

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<https://node.js.org/en/download/>

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<https://www.postman.com/>

<https://react.dev/>

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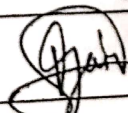

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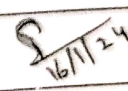
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- 0% Publications database
- Crossref database
- Crossref Posted Content database
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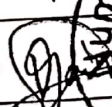
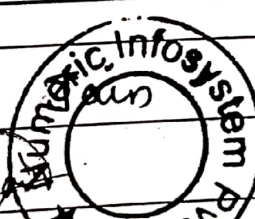
- Bibliographic material


WEEKLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| | | | | | |
|---|---|---------|---------------|---------------------|-----------|
| Name of student | SAURAV SHARMA | | Department | MCA | |
| Name of Organization | Numerix Infosystem Pvt. Ltd | | Date/Duration | 01/01/24 - 15/01/24 | |
| Criterion | Poor | Average | Good | Very Good | Excellent |
| Timeliness/Timely | | | | | |
| Completion of assigned work | | | | | ✓ |
| Capacity/Knowledge | | | | ✓ | |
| Graduation | | | | ✓ | |
| Quality of work | | | | | |
| Discipline/Team work | | | | | ✓ |
| Sincerity/Hard work | | | | ✓ | |
| Comment on nature of work Area/Topic | Discussed about technology used in project as well as about the Database. | | | | |
| OVERALL GRADE (Any) | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| Name of Industry Mentor | Vishal Jain | | | | |
| Nature of Industry Mentor |   | | | | |



| | | | | | |
|--------------|---------|------------------------|--------------|------|---|
| Signing Date | 16/1/24 | Name of Faculty Mentor | PARUL SAXENA | Sign |  |
|--------------|---------|------------------------|--------------|------|---|


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 | Learnt Connectivity with database and its operations | | | | |
| OVERALL GRADE (Any one) | ✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| Name of Industry Mentor | Vishal | | | | |
| Signature of Industry Mentor |   | | | | |

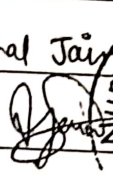
| | | | | | |
|----------------|--------|------------------------|--------------|------|--|
| Receiving Date | 5/2/24 | Name of Faculty Mentor | PARUL SAXENA | Sign |  5/2/24 |
|----------------|--------|------------------------|--------------|------|--|

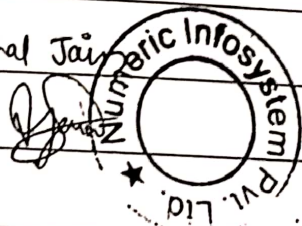
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


| | | | | | |
|---|---|---------|---------------|---------------------|-----------|
| Name of student | SAURAV SHARMA | | Department | MCA | |
| Industry/Organization | Numeric Infosystem Pvt Ltd | | Date/Duration | 01/02/24 - 15/02/24 | |
| Criterion | Poor | Average | Good | Very Good | Excellent |
| Actuality/Timely | | | | | ✓ |
| Completion of assigned work | | | | ✓ | |
| Capacity/Knowledge | | | | | ✓ |
| Up gradation | | | | | ✓ |
| Efficiency/Quality of work | | | | | ✓ |
| Behaviour/Discipline/Team work | | | | | ✓ |
| Sincerity/Hard work | | | | | ✓ |
| Comment on nature of work done/Area/Topic | Completed React Setup, learnt how to handle Redux and integration | | | | |
| OVERALL GRADE (Any) | ✓ <u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> | | | | |
| Name of Industry Mentor | Vishal Jain | | | | |
| Signature of Industry Mentor |   | | | | |

| | | | | | |
|----------------|---------|------------------------|--------------|------|---|
| Receiving Date | 20/2/24 | Name of Faculty Mentor | PARUL SAXENA | Sign |  |
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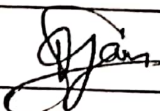
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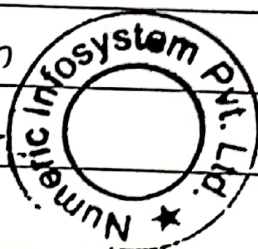
| | | | | | |
|-------------------------------------|---|---------|---------------|---------------------|-----------|
| Name of student | SAURAV SHARMA | | Department | MCA | |
| Organization | Numeric Infosystem Pvt Ltd | | Date/Duration | 16/02/24 - 29/02/24 | |
| Criterion | Poor | Average | Good | Very Good | Excellent |
| Timeliness of assigned work | | | | | |
| Capacity/Knowledge gradation | | | | | ✓ |
| Quality of work | | | | ✓ | |
| Discipline/Team work | | | | | ✓ |
| Efficiency/Hard work | | | | ✓ | |
| Content nature of work / Area/Topic | <p>Started Working on user module. Completed Signup and login page.</p> | | | | |
| Overall 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 |  |
|------|--------|------------------------|--------------|------|---|

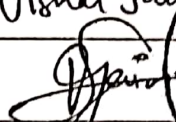
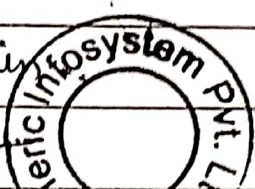
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


| | | | | | |
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| Name of student | SAURAV SHARMA | | Department | MCA | |
| 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, product and Completed Categories of Men. | | | | |
| OVERALL GRADE (Any) | ✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| Name of Industry Mentor | Vishal Jain | | | | |
| Signature of Industry Mentor |  | | | | |



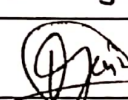
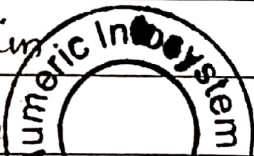
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|-------------|---------|------------------------|--------------|------|---|
| Living Date | 21/3/24 | Name of Faculty Mentor | PARUL SAXENA | Sign |  |
|-------------|---------|------------------------|--------------|------|---|


FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| | | | | | |
|--|---|---------|---------------|---------------------|-----------|
| Name of student | SAURAV SHARMA | | Department | MCA | |
| Industry/Organization | Numeric Infosystem Pvt Ltd. | | Date/Duration | 16/03/24 - 21/02/24 | |
| 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) | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT ✓ | | | | |
| Name of Industry Mentor | Vishal Jain | | | | |
| Signature of Industry Mentor |   | | | | |

| | | | | | |
|-------------|--------|------------------------|--------------|------|---|
| Living Date | 3/4/24 | Name of Faculty Mentor | PARUL SAXENA | Sign |  |
|-------------|--------|------------------------|--------------|------|---|

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> | | | | |
| <u>Name of Industry Mentor</u> | Vishal Jain | | | | |
| <u>Signature of Industry Mentor</u> |   | | | | |

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