

# **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 GlassKart**

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:**

Abhishek Yadav  
(0901CA221003)

**Industry Mentor:**

Dr. Vishal Jain (Manager, Numeric Infosystem Private Limited)

**Faculty Mentor:**

Dr. R. S. Jadon (Professor)

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE**

Gwalior – 474005 (MP) Estd.1957

January – June 2024



NIS/24/Ref-253

Date: 18/04/2024

## **PROJECT COMPLETION CERTIFICATE**

This is to certify that **Mr. Abhishek Yadav** 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. Abhishek Yadav** actively contributed to the development of the **Glass Kart**, 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)

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

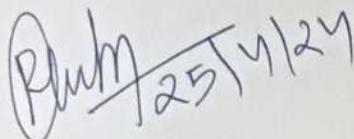
Deemed to be University

(Declared under Distinct Category by Ministry of Education, Govt. of India)

NAAC Accredited with A++ Grade

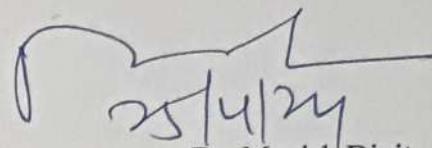
## CERTIFICATE

This is certified that **Abhishek Yadav (0901CA221003)** has submitted the project report titled **GlassKart** under the mentorship of **Dr. Vishal Jain** (Manager, Numeric infosystem Private Limited), 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.**



25/4/24

Dr. R. S. Jadon  
(Professor)  
Computer Science and Engineering



25/4/24

Dr. Manish Dixit  
(Professor and Head)  
Computer Science and Engineering  
**Dr. Manish DIXIT**  
Professor & HOD  
Department of CSE  
M.I.T.S. Gwalior

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Deemed to be University

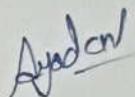
(Declared under Distinct Category by Ministry of Education, Govt. of India)

NAAC Accredited with A++ Grade

## 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's 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 **Dr. Vishal Jain** (Manager, Numeric infosystem private limited).

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



Abhishek Yadav  
0901CA221003  
2022-2024

Master in Computer Application  
Computer Science and Engineering

# 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

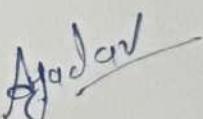
## ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I would like to extend my heartfelt appreciation to **Dr. Vishal Jain** (Manager, Numeric infosystem Private Limited) for his exceptional mentorship, guidance, and assistance throughout the project. His valuable input and feedback during the course of the project have helped me enhance my knowledge and skills. His 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. R. S. Jadon**, (Professor), Computer Science and Engineering, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



Abhishek Yadav  
0901CA221003  
2022-2024

Master in Computer Application  
Computer Science and Engineering

## ABSTRACT

The Glass Kart web application is a feature-rich platform created to completely transform the online glassware purchase experience. With a wide range of features and an intuitive layout, Glass Kart caters to both individual consumers and businesses, making it easier for customers to buy glassware products.

One of Glass Kart's main advantages is its comprehensive product catalog, which offers a large selection of glassware items, from drinkware to decorative pieces. Customers can quickly peruse several categories, apply preferences to products, and obtain comprehensive product details, such as features and customer feedback.

Glass Kart stands out for its emphasis on customisation and customization. Certain glassware goods, such as engraved glassware or personalized patterns, can be customized by users to meet their unique requirements or tastes.

Additionally, Glass Kart places a high priority on the comfort and happiness of its customers by providing safe payment methods, prompt and dependable shipment, and helpful customer care.

By offering a seamless platform that blends a large product range, personalization choices, and first-rate customer service, Glass Kart hopes to completely change the online glassware purchasing experience and eventually increase user satisfaction and engagement.

## सार

ग्लास कार्ट वेब एप्लिकेशन एक सुविधायुक्त प्लेटफॉर्म है जो ऑनलाइन ग्लासवेयर खरीदारी अनुभव को पूरी तरह से परिवर्तित करने के लिए बनाया गया है। एक विस्तृत उत्पाद सूची के साथ, ग्लास कार्ट व्यक्तिगत उपभोक्ताओं और व्यवसायों दोनों को ध्यान में रखता है, जो ग्राहकों को ग्लासवेयर उत्पादों को खरीदना आसान बनाता है।

ग्लास कार्ट का एक मुख्य फायदा यह है कि यह उत्पादों का व्यापक सूचीकरण प्रदान करता है, जो पेय के बर्टन से सजावटी आइटम तक के बहुत से ग्लासवेयर आइटमों का बढ़ा चयन प्रदान करता है। ग्राहक त्वरित रूप से कई श्रेणियों को देख सकते हैं, उत्पादों पर पसंद लगा सकते हैं, और विशिष्टताओं और ग्राहक प्रतिक्रिया जैसी विस्तृत उत्पाद विवरण प्राप्त कर सकते हैं।

ग्लास कार्ट को अनुकूलन और साज़गी पर जोर दिया जाता है। कुछ ग्लासवेयर वस्तु, जैसे कि नक्काशीत ग्लासवेयर या व्यक्तिगत पैटर्न, उपयोगकर्ताओं द्वारा अपनी अनूठी आवश्यकताओं या पसंदों को पूरा करने के लिए अनुकूलित किया जा सकता है।

इसके अतिरिक्त, ग्लास कार्ट अपने ग्राहकों की सुविधा और खुशी पर उच्च प्राथमिकता देता है, सुरक्षित भुगतान विधियों, तत्पर और भरोसेमंद भेजने के तरीके, और सहायक ग्राहक सेवा प्रदान करके।

एक बड़े उत्पाद विविधता, व्यक्तिगतीकरण विकल्पों, और पहले से उत्कृष्ट ग्राहक सेवा का मिश्रण प्रदान करके, ग्लास कार्ट की आशा है कि ऑनलाइन ग्लासवेयर खरीदारी अनुभव को पूरी तरह से बदल दिया जाएगा और अंत में उपयोगकर्ता संतुष्टि और एनजेजमेंट बढ़ाया जाएगा।

## LIST OF FIGURES

Figure Number	Figure caption	Page No.
2.3.1	Data Flow diagram Level 0	8
2.3.2	Data Flow diagram Level 1(Admin)	9
2.3.3	Data Flow diagram Level 1(User)	10
2.3.4	Entity relationship diagram	19

## LIST OF TABLES

Figure Number	Figure caption	Page No.
3.3.1	User	12
3.3.2	Product	13
3.3.3	Store	14
3.3.4	Order	15
3.3.5	Category	16
3.3.6	Color	17
3.3.7	Finaltable	18

## TABLE OF CONTENTS

<b>TITLE</b>	<b>PAGE NO.</b>
Abstract	v
सार	vi
List of figures	vii
List of tables	viii
<b>Chapter 1: introduction</b>	<b>1</b>
1.1 Problem identification	2
1.2 About Organization	3
1.3 Hardware and Software	4
<b>Chapter 2: System Analysis</b>	<b>5</b>
2.1 Problem Analysis	6
2.2 Feasibility Study	7
2.2.1 Economic Feasibility	7
2.2.2 Technical Feasibility	7
2.2.3 Behavioural Feasibility	7
2.2.4 Operational Feasibility	7
2.3 Data Flow Diagram	8
2.3.1 Level -0 DFD	8
2.3.2 Level -1 DFD	9
2.3.3 Level -1 DFD	10
<b>Chapter 3: System Design</b>	<b>11</b>
3.1 Database Table	12
3.2 E-R Diagram	19
<b>Chapter 4: Testing</b>	<b>20</b>
4.1 Unit Testing	21
4.2 Integration Testing	22
4.3 Validation Testing	22
<b>Chapter 5: Implementation</b>	<b>23</b>
<b>Chapter 6: Sample Forms and Reports</b>	<b>25</b>
<b>Chapter 7: Conclusion</b>	<b>36</b>
<b>Bibliography</b>	<b>38</b>
Plagiarism Report	39
FPR Reports	41

# **Chapter 1**

# **INTRODUCTION**

## Chapter: 1 Introduction

Introducing the Glass Kart web application, a revolutionary platform that has the potential to completely change the way that people purchase for glassware online. Glass Kart is a shining example of innovation in a world where quality and convenience go hand in hand. It provides an unmatched shopping experience that is customized to satisfy the various demands of both businesses and customers.

Glass Kart's user-centered design and wide range of products are testaments to their dedication to quality. Glass Kart offers a wide range of glassware products to suit different interests and preferences. Their extensive catalog includes everything from sophisticated drinkware to gorgeous decorative pieces.

The emphasis Glass Kart places on personalization and customisation allows users to design custom glassware pieces that express their own style and vision. This is what makes Glass Kart stand out. Engraved glassware and bespoke designs are just a few of the many creative and self-expression options available on the platform.

Additionally, Glass Kart places a high priority on client pleasure by offering safe payment methods, easy transactions, and quick customer assistance. By emphasizing quality, dependability, and ease of use, Glass Kart redefines the way consumers interact with and enjoy the world of glassware and raises the bar for online glassware shopping. Greetings from Glass Kart, where every purchase offers a chance to learn, create, and improve.

## 1.1 Problem Identification :-

**Restricted Variety:** A lot of internet retailers only carry a small range of glassware items, which restricts customer options and appeals solely to mainstream tastes.

**Lack of Customization:** Customers have little opportunity to exhibit their uniqueness because there are frequently few options for personalized or customized glassware products on the current platforms.

**Insufficient Information:** A few internet retailers don't give customers enough information about their glassware products, which makes them hesitant to make purchases.

**Complicated Navigation:** Having to navigate through disorganized product categories and cluttering interfaces can make purchasing less efficient and frustrating.

**Inconsistent Quality:** There can be big differences in the quality of glassware products that are sold online, which raises questions about their overall satisfaction, legitimacy, and durability.

## 1.2 About Organisation :-

Serving more than 80 countries, Numeric is a multinational IT firm with 1,400 workers. We provide end-to-end solutions by utilizing industry trends, technical know-how, and domain experience. We provide services to a range of industries, including retail, healthcare, and finance. We give efficiency and trust top priority using a customer-centric approach. Our approach to product creation guarantees timely delivery, cost-effectiveness, and quality. With a focus on software, mobile, and online development, we ensure return on investment. We are experts at turning concepts into workable IT solutions, producing outcomes quickly and affordably. Our goal is to build lasting partnerships by providing comprehensive, high-quality solutions that surpass customer expectations.

### 1.3 Hardware and Software :-:

**Hardware specification :-:** Table 1.3.1

<b>Hardware Components</b>	<b>Minimum requirements</b>
<b>Processor</b>	Intel Core i3 or Equivalents
<b>Hard disk</b>	256 GB
<b>Display</b>	14-inch monitor with a resolution of 1366x768 pixel
<b>Input Device</b>	Keyboard and Mouse
<b>Operating System</b>	Windows 7 or later, macOS X 10.11 or later, Ubuntu Linux 18.04 or later
<b>Brower</b>	Google chrome (latest Version), Mozilla Firefox (latest Version)
<b>Other Requirements</b>	Node.js (latest Version), MongoDB (latest Version)

**Software specification :-:** Table 1.3.2

<b>Software Components</b>	<b>Minimum requirements</b>
<b>Node.js</b>	14.x or later
<b>Express.js</b>	4.x or later
<b>React</b>	17.x or later
<b>MongoDB</b>	4.x or later
<b>Mongoose</b>	5.x or later
<b>Axios</b>	0.21.x or later
<b>JSON Web token</b>	8.x or later
<b>Bcrypt</b>	5.x or later

# **Chapter 2**

# **SYSTEM**

# **ANALYSIS**

## 2.1 Problem analysis :-

We examine the issues that have to be addressed in order to create the suggested system in this part. Determining and comprehending these issues is essential to creating efficient solutions that satisfy user requirements and expectations. The main focuses of problem analysis are as follows:

**Limitations of the Current System:** Determining the inadequacies and limitations of the current system, if any, is crucial to comprehending the issues that users face. This involves assessing problems such as ineffectiveness, deficiency in features, or antiquated technology.

**User requirements and needs:** It is critical to comprehend the needs and expectations of the system's users. To obtain information on the difficulties users encounter in carrying out their duties efficiently, this entails conducting surveys, interviews, or observational studies.

**Market Trends and Competitor Analysis:** These two approaches offer important background information for determining areas in which the proposed solution can give a competitive edge. Examining best practices, developing technologies, and industry standards are all part of this.

**Technology Opportunities and Constraints:** Evaluating the state of technology aids in establishing whether or not specific features or functionalities can be implemented in the suggested system. It entails assessing elements including compatibility problems, hardware and software requirements, and available development tools and frameworks.

**Compliance and Regulation Requirements:** The security and legality of the system depend on compliance with legal and regulatory criteria. This entails following industry rules, data protection laws, and other pertinent directives.

**Expectations of Stakeholders:** It is essential to determine the priorities and expectations of stakeholders, such as clients, users, management, and other pertinent parties, in order to match the system's goals and objectives with their ambitions.

## **2.2 Feasibility Study :-**

### **2.2.1 Economic Feasibility study :-**

evaluating the suggested system's implementation's cost-effectiveness.

evaluating the payback duration and possible return on investment (ROI).

Taking into account aspects like possible revenue creation, maintenance expenditures, and development costs.

figuring out whether the idea is financially feasible and whether the advantages exceed the disadvantages.

### **2.2.2 Technical Feasibility study :-**

assessing the technical specifications and capacities required for system development and implementation.

evaluating the resources, infrastructure, and technology that are required.

figuring out whether new solutions need to be created or if the suggested system can be implemented using current technologies.

determining any obstacles or limitations in terms of technology that could affect the project's viability.

### **2.2.3 Behavioural Feasibility study :-**

analysing the possible user reactions to the suggested system.

evaluating adoption rates, user acceptability, and possible change resistance.

determining user expectations, habits, and preferences to make sure the system meets their needs.

surveying or testing users to learn more about their preferences and behaviour.

### **2.2.4 operational feasibility study :-**

assessing how the suggested system's implementation will affect operations.

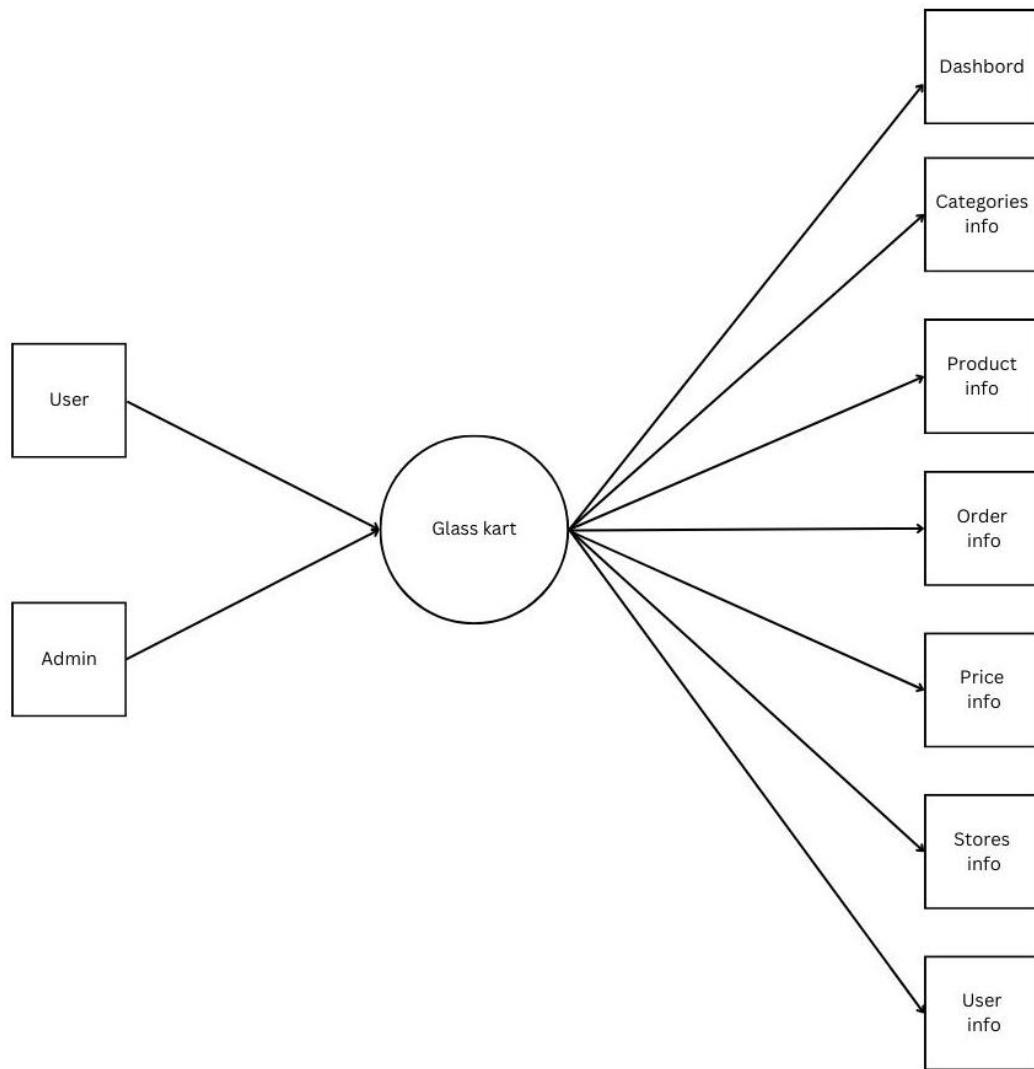
evaluating the system's compatibility with the current workflows, systems, and processes.

spotting any hiccups or difficulties during deployment and installation.

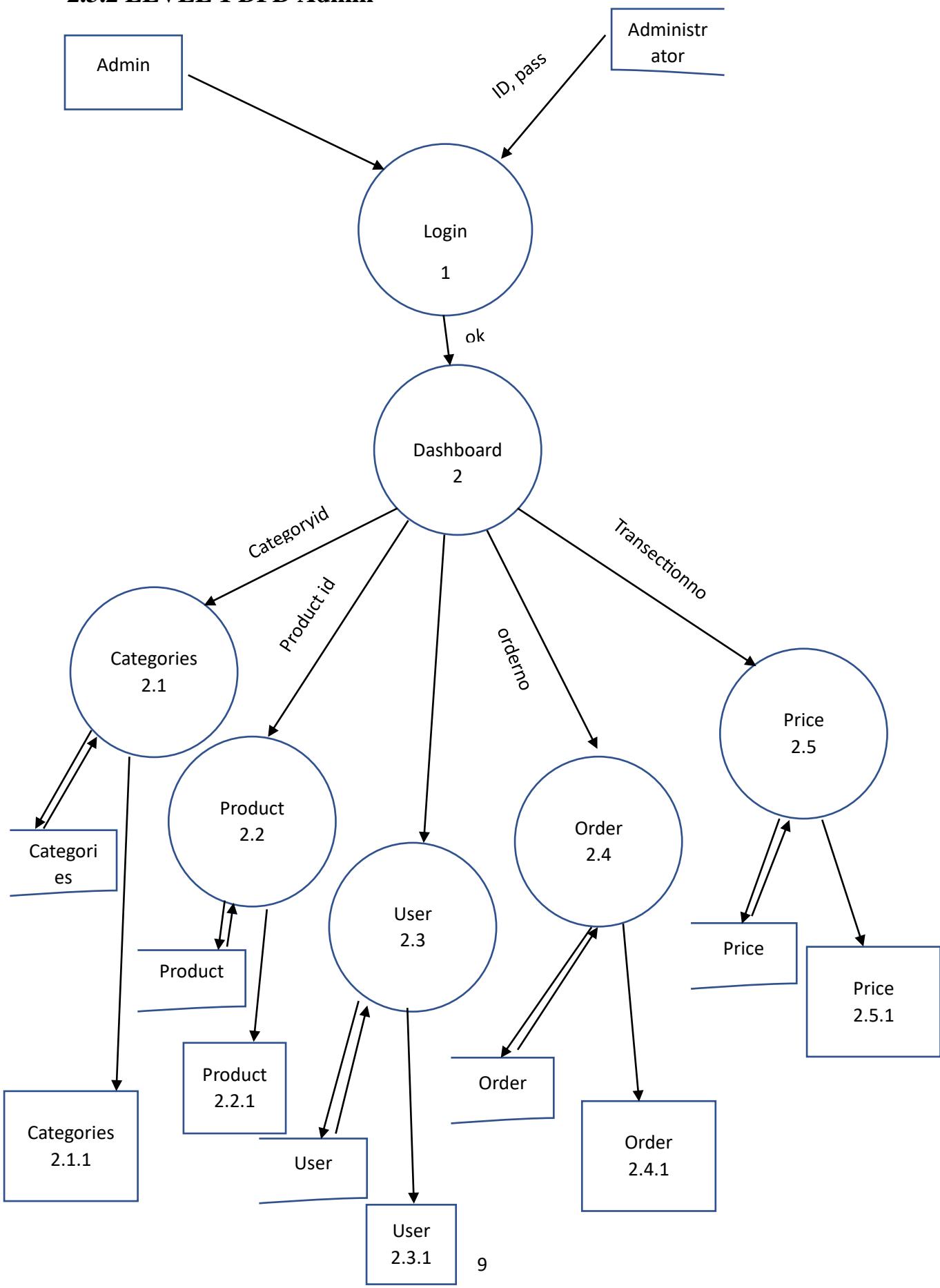
evaluating the viability of giving users training and continuing system support.

## 2.3 Data Flow Diagram :-

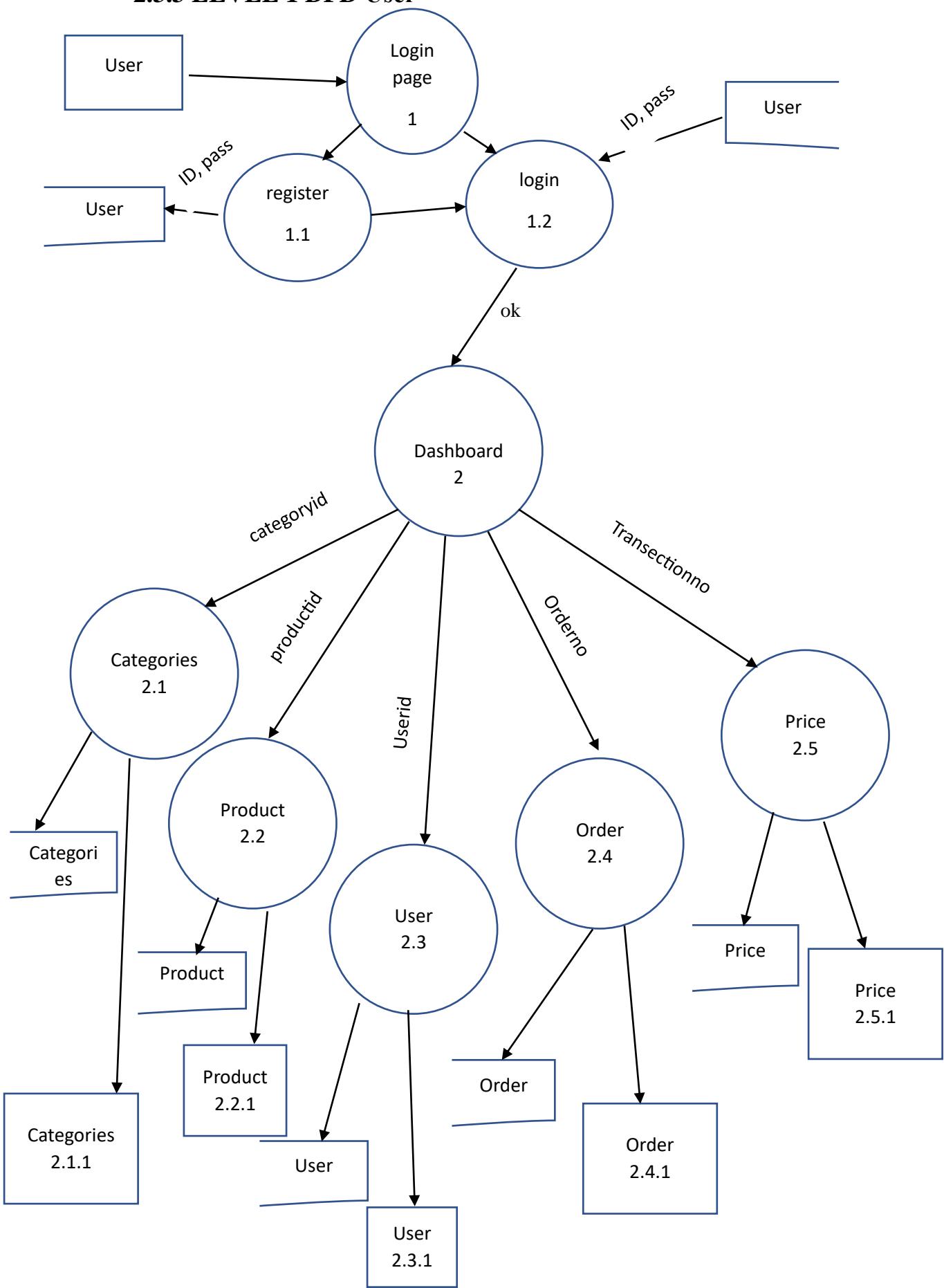
### 2.3.1 LEVEL 0 DFD



### 2.3.2 LEVEL 1 DFD Admin



### 2.3.3 LEVEL 1 DFD User



# **Chapter 3**

# **SYSTEM DESIGN**

### 3.1 DATABASE TABLE

**Table 1: User**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	Email	varchar	PK	Hold unique id of user
<b>2</b>	Mobileno	varchar	PK	Hold user mobile number
<b>3</b>	Name	varchar	Not null	Hold user of name
<b>4</b>	Password	varchar	Not null	Hold unique password of user
<b>5</b>	Address	varchar	Not null	Hold user address
<b>6</b>	Housenumber	varchar	Not null	Hold user house number
<b>7</b>	Landmark	varchar	Not null	Hold user landmark
<b>8</b>	City	varchar	Not null	Hold user city
<b>9</b>	Pincode	varchar	Not null	Hold user pincode
<b>10</b>	State	varchar	Not null	Hold user state

**Table 2:** Product

Description		Record information regarding user		
Sno	Field Name	Field Type	Constraints	Description
1	Adstatus	varchar	PK	Hold unique id of user
2	categoryid	Int	PK	Hold unique
3	description	Longtext	Not null	Hold description
4	materialid	Int	Not null	Hold unique materialid
5	frameid	Int	Not null	Hold unique frameid
6	picture	varchar	Not null	Hold picture
7	productid	Int	Not null	Hold unique productid
8	Productname	varchar	Not null	Hold user productname
9	shapeid	Int	Not null	Hold shapeid
10	Status	varchar	Not null	Hold status
11	Type	Varchar	Not null	Hold product type

**Table 3: Store**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	Addressone	text	Not null	Hold addressone
<b>2</b>	Addresstwo	text	Not null	Hold addresstwo
<b>3</b>	Emailaddress	Varchar	Not null	Hold emailaddress
<b>4</b>	landmark	Text	Not null	Hold unique landmark
<b>5</b>	Contactnumber	Varchar	Not null	Hold contactnumber
<b>6</b>	Lat	varchar	Not null	Hold lat
<b>7</b>	Ing	varchar	Not null	Hold ing
<b>8</b>	picture	varchar	Not null	Hold picture
<b>9</b>	storeid	int	Not null	Hold unique storied
<b>10</b>	Storename	varchar	Not null	Hold storename
<b>11</b>	storecity	Varchar	Not null	Hold storecity
<b>12</b>	Storestate	Varchar	Not null	Hold storestate

**Table 4: Order**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	Address	Varchar	Not null	Hold address
<b>2</b>	amount	Varchar	Not null	Hold amount
<b>3</b>	City	Varchar	Not null	Hold city
<b>4</b>	delivystatess	Varchar	Not null	Hold unique delivystatus
<b>5</b>	emailid	Varchar	Not null	Hold emailed
<b>6</b>	invoiceno	int	Not null	Hold invoiceno
<b>7</b>	Mobileno	Varchar	Not null	Hold Mobileno
<b>8</b>	offerprice	int	Not null	Hold offerprice
<b>9</b>	Orderdate	Date	Not null	Hold unique orderdate
<b>10</b>	orderno	int	PK	Hold unique orderid
<b>11</b>	paymentmode	Varchar	Not null	Hold paymentmode
<b>12</b>	paymenttype	Varchar	Not null	Hold paymenttype

**Table 5: Category**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	categoryid	Int	Pk	Hold unique categoryid
<b>2</b>	categoryname	Varchar	Not null	Hold categoryname
<b>3</b>	icon	text	Not null	Hold icon

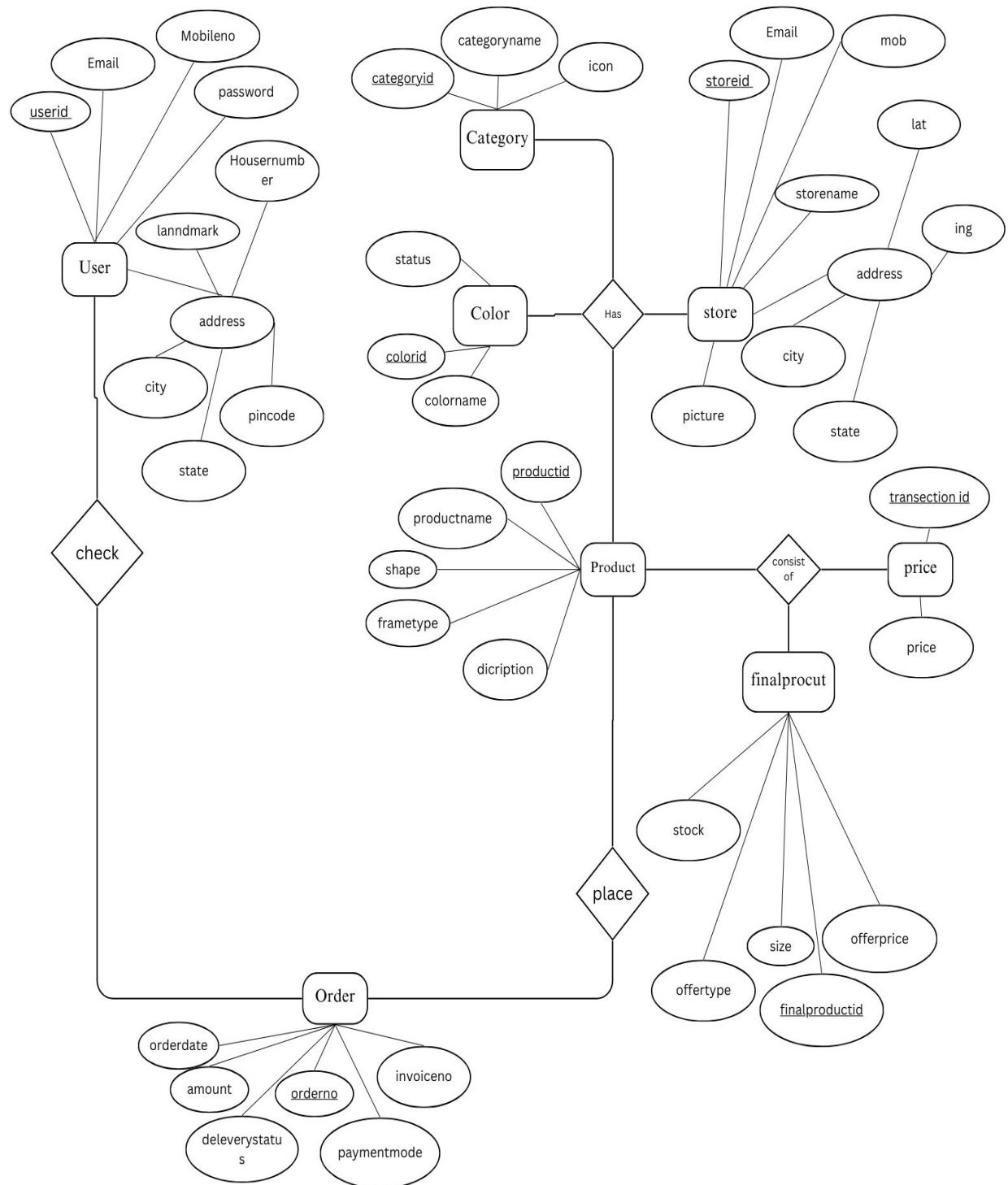
**Table 6: color**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	colorid	Int	Pk	Hold unique colorid
<b>2</b>	colorname	Varchar	Not null	Hold colorname
<b>3</b>	status	varchar	Not null	Hold status

**Table 7: finalproduct**

<b>Description</b>		<b>Record information regarding user</b>		
<b>Sno</b>	<b>Field Name</b>	<b>Field Type</b>	<b>Constraints</b>	<b>Description</b>
<b>1</b>	finalproductid	Int	Pk	Hold unique finalproductid
<b>2</b>	offerprice	Varchar	Not null	Hold colorname
<b>3</b>	offertype	varchar	Not null	Hold status
<b>4</b>	Size	varchar	Not null	Hold size
<b>5</b>	Stock	Int	Not null	Hold stock

## 3.2 E-R DIAGRAM



# **Chapter 4**

# **TESTING**

## Chapter 4 Testing

Testing is the process of determining whether something functions as intended. Consider that you are baking a cake. You would want to try a tiny bit to make sure it's great before serving it to your friends, wouldn't you? It is comparable to testing. Software testing involves experimenting with various components of a computer program to determine whether or not they perform as intended. It's similar to making sure your cake is properly blended with all of the ingredients and cooked in the oven. Testing makes it easier to identify and address any errors or issues in the application, ensuring that it functions properly for users. Testing ensures software is ready for users to enjoy without any surprises, much like tasting your cake helps ensure it's ideal for your friends.

### 4.1 Unit Testing

Test Case ID	Test Case Description	Test Data	Expected Result
UT_USER_001	Test user registration with valid data	Name, email, password, etc.	User should be registered successfully
UT_USER_002	Test user registration with existing email	Existing email in the database	Should throw an error for duplicate email
UT_USER_003	Test user login with valid credentials	Registered email and password	User should be logged in successfully
UT_PROD_001	Test adding a new product with valid data	Product name, description, price, etc.	Product should be added successfully
UT_PROD_002	Test updating an existing product	Valid product ID and updated details	Product should be updated successfully
UT_PROD_003	Test deleting a product	Valid product ID	Product should be deleted successfully
UT_ORDER_001	Test placing a new order with valid data	User ID, product IDs, quantity, etc.	Order should be placed successfully
UT_ORDER_002	Test retrieving order details	Valid order ID	Order details should be retrieved correctly
UT_ORDER_003	Test updating order status	Valid order ID and new status	Order status should be updated successfully

## 4.2 Instigation testing

Test Case ID	Test Case Description	Test Data	Expected Result
IT_REG_001	Test user registration form integration	Valid user data	User should be registered, and confirmation email sent
IT_LOGIN_001	Test user login form integration	Valid credentials	User should be logged in, and session created
IT_PROD_001	Test product catalog integration	N/A	Product catalog should be displayed correctly
IT_CART_001	Test cart functionality integration	Product IDs, quantities	Products should be added to cart correctly
IT_ORDER_001	Test order placement integration	Order data, payment details	Order should be placed, and confirmation received
IT_TRACK_001	Test order tracking integration	Order ID	Order tracking details should be displayed correctly

## 4.3 Validation testing

Test Case ID	Test Case Description	Test Data	Expected Result
VT_REG_001	Validate user registration form fields	Invalid data (empty, wrong format, etc.)	Appropriate error messages should be displayed
VT_LOGIN_001	Validate user login form fields	Invalid data (wrong email/password)	Appropriate error message should be displayed
VT_PROD_001	Validate product management form fields	Invalid data (empty, wrong format, etc.)	Appropriate error messages should be displayed
VT_CART_001	Validate cart functionality	Invalid data (negative quantity, etc.)	Appropriate error message should be displayed
VT_ORDER_001	Validate order placement form fields	Invalid data (empty, wrong format, etc.)	Appropriate error messages should be displayed
VT_TRACK_001	Validate order tracking input	Invalid order ID	Appropriate error message should be displayed

# **Chapter 5**

# **IMPLEMENTATION**

# **N**

## IMPLEMENTATION

The MERN stack—MongoDB, Express, React, and Node.js—was used to develop the GlassKart web application. This stack is well-liked for creating cutting-edge, scalable, and effective web applications.

### **Implementation of the Backend:**

**Node.js and Express.js:** These languages are used in the construction of GlassKart backend. Express.js is a simple and adaptable online application framework for Node.js, while Node.js is a JavaScript engine that enables server-side execution of JavaScript code.

**MongoDB and Mongoose:** MongoDB, a well-liked NoSQL database with a reputation for scalability and flexibility, is where the application data is kept. To interface with the database and establish data schemas, use Mongoose, an Object Data Modeling (ODM) library for MongoDB and Node.js.

### **Front-end Development:**

**React.js:** React.js is a popular JavaScript user interface library that was used to construct GlassKart's front end. React.js facilitates the rapid presentation of dynamic data and the building of reusable user interface components.

**React Router:** React Router is a client-side routing tool that makes it easy to navigate between the application's many pages and components.

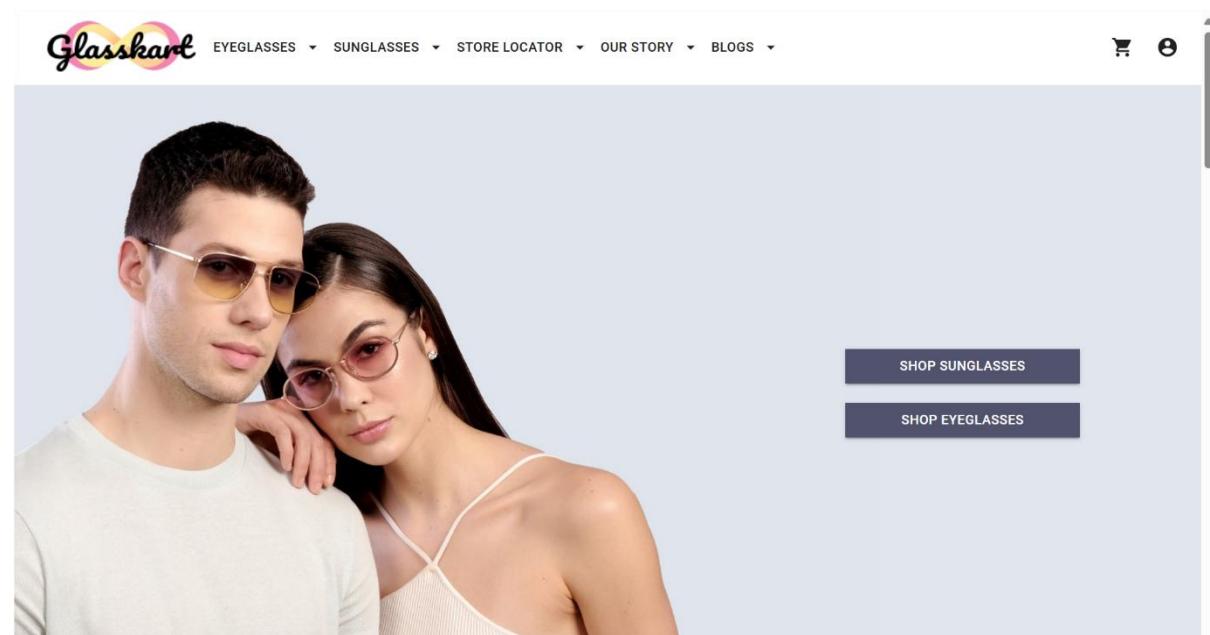
**State Management:** To maintain and propagate application state between components, utilize React built-in state management features in conjunction with the Context API and/or a state management library like Redux.

The frontend is made to be responsive in order to provide a consistent and user-friendly experience on a range of screens and devices.

# **Chapter 6**

# **SAMPLE FORMS**

# **AND REPORT**



**SHOP SUNGLASSES**

**SHOP EYEGLASSES**

**New This Week**

**New This Week**

This summer, we're bringing back the cat-eye trend with a colourful twist! Transform your look with these trendy tinted tonics in fresh colour options!



**Summer Must-Haves**  
**CAT-EYE SUNNIES**





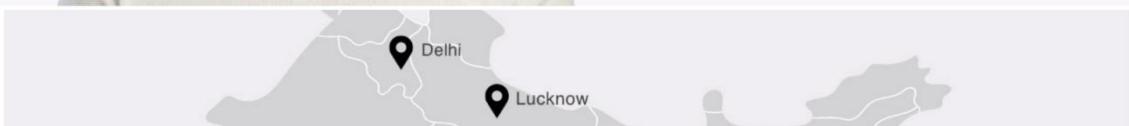
Get Expert Recommendations  
Call us at:

**9211844000**



Try Glasses  
In 3D

Get Started





#### CONNECT WITH US



#### CONTACT

support@glasskart.com  
+91 92118 44000

#### SHOP

Eyeglasses  
Sunglasses  
Collections

#### ABOUT

Our Story  
Careers  
Press  
Blog  
Store Locator

#### INFORMATION

Help  
Shipping Handling  
Exchanges & Return  
Terms & Conditions  
Privacy Policy

## Eyeglass

The screenshot shows the Glasskart website. At the top, there is a navigation bar with the logo "Glasskart" and links for EYEGLASSES, SUNGLASSES, STORE LOCATOR, OUR STORY, and BLOGS. Below the navigation is a large image of a man and a woman wearing glasses. Overlaid on this image are two buttons: "SHOP SUNGLASSES" and "SHOP EYEGLASSES". Above the image, there are two smaller images: one of a man labeled "Shop Men" and one of a woman labeled "Shop Women".

**Glasskart** EYEGLASSES SUNGLASSES STORE LOCATOR OUR STORY BLOGS

Shop Men Shop Women

SHOP SUNGLASSES

SHOP EYEGLASSES

New This Week



EYEGLASSES ▾ SUNGLASSES ▾ STORE LOCATOR ▾ OUR STORY ▾ BLOGS ▾



SHAPE ▾ FRAMETYPE ▾ SIZE ▾ COLOR ▾ MATERIAL ▾ GENDER ▾ PRICE ▾ SORTING ▾ RESET ▾



EYEGLASSES ▾ SUNGLASSES ▾ STORE LOCATOR ▾ OUR STORY ▾ BLOGS ▾



HOME / GLASSKART / Breadcrumb

Product View



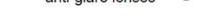
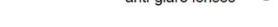
Venus

Silver



₹ 1200

including premium anti-glare lenses

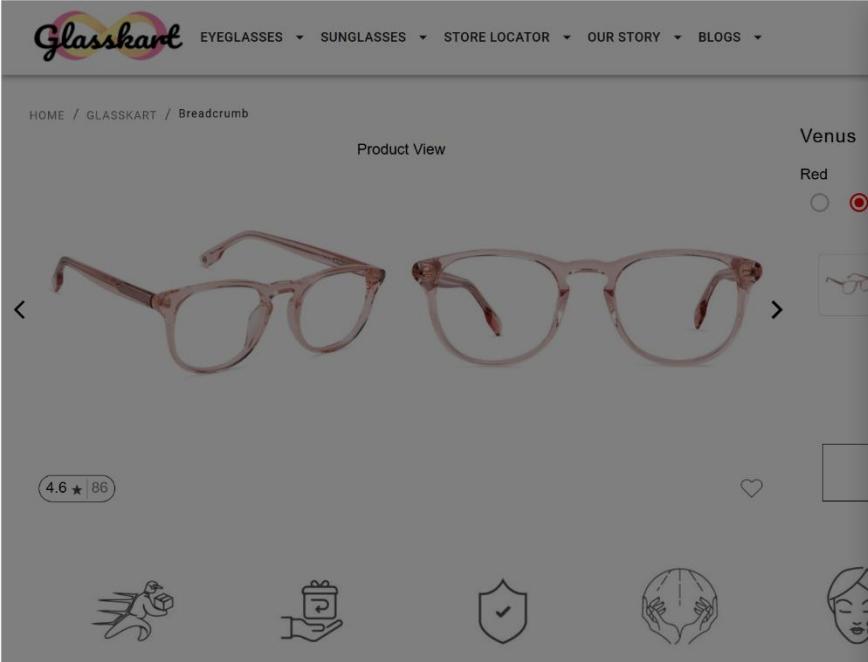


Hurry Only 2 item(s) is left

Add to Cart

Lets Chat





Product View

Venus

Red

2

Venus  
Silver ₹  
1200x1  
No offer

Venus  
Red ₹ 3500x1  
₹ 4000  
You save ₹ 500

Payable: ₹ 4700  
Savings: ₹ 500  
Delivery Charges: ₹ 0  
Net Amount: ₹ 4700

Proceed for Payment



Sign in

Sign in to access your Orders, Offers and Wishlist.

Enter Your Mobile No.

SEND ➤

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

CONNECT WITH US





EYEGLASSES ▾ SUNGLASSES ▾ STORE LOCATOR ▾ OUR STORY ▾ BLOGS ▾



## Sign Up

Please enter your details.



Your First Name

Ani

Your Last Name

Yadav

Your Email-Id

aniyadv0997@gmail.com

Password \*

.....

Confirm Password \*

.....

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

### Verify

We have sent 4 digit OTP on +91 9434824522

Change

Enter Your OTP

\*\*\*\*

Resend OTP

SEND ➤

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

## Admin Dashboard



### Sign in

Email Address \*

ss@gmail.com

Password \*

.....



Remember me

SIGN IN

Copyright © Your Website 2024.

Dashboard
4

Dashboard

Stores

Specifications

Category

Frame Type

Shapes

Material Type

Color

Price

Products

DISPLAY STORE
+ ADD STORECITY

Search

X

Actions
Id
Store Name
City
Contact
Location
Picture

<span style="font-size: 1.2em;">Glasskart</span> <span>13 Gulab Chand Ki Bagichi,Behind Javar Estate,Gandhi Road</span>	<span style="font-size: 1.2em;">12</span>	<span style="font-size: 1.2em;">Madhya Pradesh,Thatipur,Gwalior</span>	<span style="font-size: 1.2em;">numeric.gwl@gmail.com 09301123085</span>	<span style="font-size: 1.2em;">Show</span>	
<span style="font-size: 1.2em;">the Glass Kart</span> <span>Rjn Hospital,rjn Hospital</span>	<span style="font-size: 1.2em;">13</span>	<span style="font-size: 1.2em;">Madhya Pradesh,gwalior</span>	<span style="font-size: 1.2em;">aniyadv7800@gmail.com 09696022674</span>	<span style="font-size: 1.2em;">Show</span>	
<span style="font-size: 1.2em;">the Glass Kart</span> <span>Rjn Hospital,rjn Hospital</span>	<span style="font-size: 1.2em;">14</span>	<span style="font-size: 1.2em;">Madhya Pradesh,gwalior</span>	<span style="font-size: 1.2em;">aniyadv7800@gmail.com 09696022674</span>	<span style="font-size: 1.2em;">Show</span>	

## Add Store

**Dashboard**

**Stores**

**Store**

**Specifications**

**Category**

**Frame Type**

**Shapes**

**Material Type**

**Color**

**Price**

**Products**

**Dashboard**

**Stores**

**Store**

**Specifications**

**Category**

**Frame Type**

**Shapes**

**Material Type**

**Color**

**Price**

**Products**

### Add Stores

Select State: Madhya Pradesh

City: gwalior

Store Name: the Glass Kart

Address One: Rjn Hospital

Address Two: rjn Hospital

Landmark: Near Apollo Hospital

Latitude: 26.125702

Longitude: 78.10148022

GET LOCATION

Contact Number: 09696022674

Email Address: aniyadv7800@gmail.com

UPLOAD



**SUBMIT STORE**

### Add Material

Material: child

Select Status: Active

UPLOAD



**ADD MATERIAL**

Copyright © Your Website 2024.

**Dashboard**

**Stores**

- \* [Store](#)

**Specifications**

- \* [Category](#)
- \* [Frame Type](#)
- \* [Shapes](#)
- \* [Material Type](#)
- \* [Color](#)
- \* [Price](#)

**Products**

- \* [Store](#)

**Dashboard**

**DISPLAY CATEGORY**

[+ ADD CATEGORY](#)

Actions	Id	Category Name	Picture
<span style="color: #0072bc;">*</span> <a href="#">Edit</a>	1	Eyeglasses	
<span style="color: #0072bc;">*</span> <a href="#">Edit</a>	2	Sunglasses	
<span style="color: #0072bc;">*</span> <a href="#">Edit</a>	3	Store Locator	
<span style="color: #0072bc;">*</span> <a href="#">Edit</a>	4	Our Story	
<span style="color: #0072bc;">*</span> <a href="#">Edit</a>	5	Blogs	

5 rows \* | < | < 1-5 of 5 > | > |

**Dashboard**

\* [Select Category](#)

\* [Select Frames](#)

\* [Select Materials](#)

\* [Select Shapes](#)

\* [Select Type](#)

\* [Product Name](#)

\* [Status](#)

\* [Ad Status](#)

\* [Sunglasses](#)

\* [Half Rim](#)

\* [Fiber](#)

\* [Round](#)

\* [Men](#)

\* [Ray-ban](#)

\* [New Arrival](#)

\* [Available](#)

[UPLOAD](#)

SUBMIT PRODUCT

34

**Dashboard**

- Stores** ^
  - [Store](#)
- Specifications** ▼
- Products** ^
  - [Add Product](#)
  - [Add Final Product](#)
  - [Add Pictures](#)

**DISPLAY FINAL PRODUCT** [+ ADD FINAL PRODUCT](#)

Search
X

Actions	Id	Product Name	Color	Size	Price	Offer	Stock	Description	Picture
	5	4	15	Medium	1200	0 None	2	Venus	
	6	4	1	Medium	4000	3500 None	10	Venus	
	7	5	2	Medium	4000	0 None	10	Hydra	
	8	6	4	Medium	2300	1000 None	10	Alexis	
	9	6	2	Medium	1230	30 None	10	Alexis	

**Dashboard**

- Stores** ^
  - [Store](#)
- Specifications** ▼
- Products** ^
  - [Add Product](#)
  - [Add Final Product](#)
  - [Add Pictures](#)

**Add Final Products**

Select Product
Select Size
Select Final Product

Venus

Medium

Silver

Drag and drop a file here or click

UPLOAD FILES

✓ File download (1).jpeg successfully added. File download (2).jpeg successfully added. File download (3).jpeg successfully added. File download.jpeg successfully added. X

35

# **Chapter 7**

# **CONCLUSION**

## Conclusion

To sum up, the GlassKart online application is proof of how creativity, user-friendliness, and smooth operation can come together in the world of internet glassware purchasing. GlassKart has redefined the purchasing experience for businesses and glassware enthusiasts alike, emerging as a beacon of quality through a rigorous journey of development and refinement.

GlassKart provides a comprehensive online shopping solution that meets the various demands and interests of its users by eliminating the shortcomings of conventional online shopping platforms. GlassKart gives customers the freedom to explore, create, and express themselves in ways that they could never have imagined thanks to its vast product selection and emphasis on personalization and customization.

Furthermore, GlassKart's dedication to quality goes beyond its user experience and includes features like safe payment methods, prompt and dependable shipment, and helpful customer support. This all-encompassing strategy makes sure that every encounter with GlassKart is a journey of fulfilment and discovery rather than merely a transaction.

Looking ahead, GlassKart is still able to develop and adjust to the always shifting online retail scene thanks to a strong commitment to quality, innovation, and customer pleasure. GlassKart is your dependable partner, providing quality with each click, whether you're looking for the ideal piece of glassware or want to improve your company's online profile. Welcome to GlassKart, where every transaction is a memorable one.

# **BIBLIOGRAPH**

## BIBLIOGRAPH

The following links were referred during the analysis and execute phase of the project:

1. <https://www.w3schools.com>
2. <https://www.youtube.com>
3. <https://www.googleadservices.com>
4. <https://react.dev>

# PLAGIARISM REPORT

PAPER NAME

**Abhishek Yadav (0901CA221003) final project.pdf**

AUTHOR

**Abhishek yadav**

WORD COUNT

**3371 Words**

CHARACTER COUNT

**17852 Characters**

PAGE COUNT

**34 Pages**

FILE SIZE

**683.9KB**

SUBMISSION DATE

**Apr 23, 2024 1:30 PM GMT+5:30**

REPORT DATE

**Apr 23, 2024 1:30 PM GMT+5:30**

## ● 5% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

- 3% Internet database
- 2% Publications database
- Crossref database
- Crossref Posted Content database
- 5% Submitted Works database

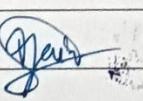
## ● Excluded from Similarity Report

- Bibliographic material

[Summary](#)

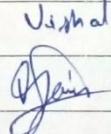
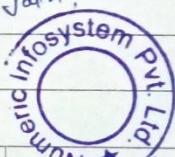
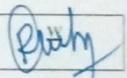
## FPR REPORT

### FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	<i>Abhishek yadav</i>					Department	<i>MCA</i>	
Industry/Organization	<i>Numeritec Infosys. Sys. Pvt. Ltd.</i>					Date/Duration	<i>15/01/24 - 31/01/24</i>	
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	<ul style="list-style-type: none"> <li>- Discussed about Client requirement</li> <li>- Understanding about UI requirement</li> <li>- Discussed Project requirement.</li> </ul>							
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>							
Name of Industry Mentor	<i>Vishal Vain</i>							
Signature of Industry Mentor	 							
Receiving Date	<i>5/02/2024</i>	Name of Faculty Mentor	<i>Dr R.S. Jadon</i>	Sign	<i>Rajat</i>			

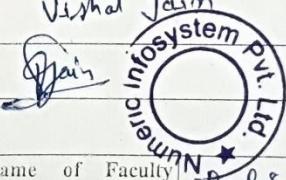
FORMAT

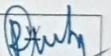
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY  
MENTOR

Name of student	Abhishek Yadav				
Industry/Organization	Numenics Infotech pvt. Ltd.				
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	<p>Understanding project requirement</p> <p>- Learn UI design according to project requirement.</p>				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor	 				
Receiving Date	19/02/2024	Name of Faculty Mentor	Dr. N. S. Jordon	Sign	

FORMAT

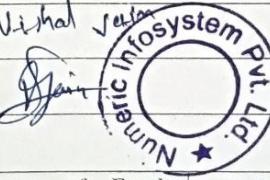
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY  
MENTOR

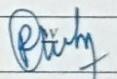
Name of student	Abhishek Yadon		Department	MCA	
Industry/Organization	Numetric info. pvt Ltd		Date/Duration	16-02-24 — 29-02-24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	<p>-Learn connectivity with Database &amp; it's operations using mysql.</p>				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor					

Receiving Date	1/03/2023	Name of Faculty Mentor	Dr. R.S. Jadon	Sign	
----------------	-----------	------------------------	----------------	------	---

FORMAT

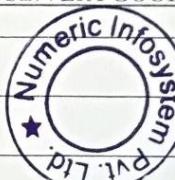
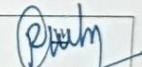
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY  
MENTOR

Name of student	Abhishek Yadav		Department	01-03-24 - 15-03-24	
Industry/Organization	Vimarsik info. pvt Ltd		Date/Duration		
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	working backend using Node.js. framwork, - building servers.				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Nishal Jain				
Signature of Industry Mentor					

Receiving Date	18/03/2024	Name of Faculty Mentor	Dr. R.S. Yadav	Sign	
----------------	------------	------------------------	----------------	------	---

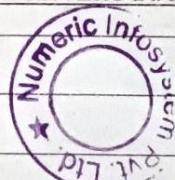
FORMAT

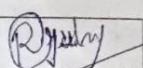
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY  
MENTOR

Name of student	Abhishek Yadav		Department	MCA	
Industry/Organization	Numeric Info. Pvt. Ltd.		Date/Duration	18/03/2024 - 31/03/24	
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	Working on admin panel				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERYGOOD/EXCELLENT				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor					
Receiving Date	2/03/2024	Name of Faculty Mentor	Dr R.S. Jordon	Sign	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY  
MENTOR

Name of student	Abhishek Yadav				
Industry/Organization	Numeric Info. Pvt. Ltd. Date/Duration 01/04/2024 — 15/04/2024				
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	implement API in Glass Kart project				
<u>OVERALL GRADE (Any one)</u>	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Vinal Jain				
Signature of Industry Mentor	 				

Receiving Date	18/04/2024	Name of Faculty Mentor	Dr. R.S. Jader	Sign	
----------------	------------	------------------------	----------------	------	---