

**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 Annapurna**

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  
JAN-JUNE 2024



NIS/24/Ref-8567

Date: 10/04/2024

## **PROJECT COMPLETION CERTIFICATE**

This is to certify that **Mr. Sandeep Baghel** 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. Sandeep Baghel** actively contributed to the development of the **Annapurna**, 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 **Sandeep Baghel (0901CA221057)** has submitted the project report titled **Development of Annapurna** 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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**Dr. Parul Saxena**  
(Assistant Professor)  
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*Manish Dixit*  
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**Dr. Manish Dixit**  
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Computer Science and Engineering

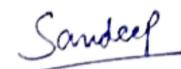
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**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE**  
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## **DECLARATION**

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.



Sandeep Baghel  
(0901CA221057)  
2<sup>nd</sup> Year  
Master in Computer Application  
Computer Science and Engineering

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

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

Sandeep

Sandeep Baghel  
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## Abstract

The "Annapurna" envisions a world where restaurant management is effortless and online food booking is a breeze. Catering to the needs of restaurant owners, managers, and customers, it streamlines operations, enhances customer convenience, and simplifies processes. Identified challenges include manual management hurdles, operational issues, limited customer convenience, and potential dissatisfaction. To address these, strategies like market research, collaboration with industry experts, user testing, regulatory compliance, understanding customer preferences, and scalability assessment are proposed. "Annapurna" aims to revolutionize the restaurant industry by providing a digital solution that aligns with industry needs and enhances the overall dining experience.

The "Annapurna" platform offers a comprehensive suite of features designed to optimize restaurant management. Through intuitive interfaces, restaurant owners can effortlessly add new locations, update menus, and manage inventory, thereby increasing operational efficiency. Moreover, seamless integration with online booking systems simplifies the process for customers, allowing them to easily make reservations and place orders from the comfort of their homes.

To overcome manual management challenges, "Annapurna" leverages advanced technologies such as AI-driven analytics and automation tools. This not only reduces errors but also frees up valuable time for restaurant staff to focus on delivering exceptional service. By harnessing the power of data, the platform enables data-driven decision-making, allowing restaurant owners to tailor their offerings to meet the evolving preferences of their customer base.

## सार

"अन्नपूर्णा" एक ऐसी दुनिया की कल्पना करती है जहां रेस्तरां प्रबंधन आसान हो और ऑनलाइन भोजन बुकिंग आसान हो। रेस्तरां मालिकों, प्रबंधकों और ग्राहकों की जरूरतों को पूरा करते हुए, यह संचालन को सुव्यवस्थित करता है, ग्राहक सुविधा बढ़ाता है और प्रक्रियाओं को सरल बनाता है। पहचानी गई चुनौतियों में मैन्युअल प्रबंधन बाधाएँ, परिचालन संबंधी मुद्रे, सीमित ग्राहक सुविधा और संभावित असंतोष शामिल हैं। इन्हें संबोधित करने के लिए, बाजार अनुसंधान, उद्योग विशेषज्ञों के साथ सहयोग, उपयोगकर्ता परीक्षण, नियामक अनुपालन, ग्राहक प्राथमिकताओं को समझना और स्केलेबिलिटी मूल्यांकन जैसी रणनीतियां प्रस्तावित हैं।

"अन्नपूर्णा" का लक्ष्य एक डिजिटल समाधान प्रदान करके रेस्तरां उद्योग में क्रांति लाना है जो उद्योग की जरूरतों के अनुरूप हो और समग्र भोजन अनुभव को बढ़ाए।

"अन्नपूर्णा" प्लेटफॉर्म रेस्तरां प्रबंधन को अनुकूलित करने के लिए डिज़ाइन की गई सुविधाओं का एक व्यापक सूट प्रदान करता है। सहज जान युक्त इंटरफ़ेस के माध्यम से, रेस्तरां मालिक आसानी से नए स्थान जोड़ सकते हैं, मैनू अपडेट कर सकते हैं और इन्वेंट्री प्रबंधित कर सकते हैं, जिससे परिचालन दक्षता बढ़ सकती है। इसके अलावा, ऑनलाइन बुकिंग सिस्टम के साथ सहज एकीकरण ग्राहकों के लिए प्रक्रिया को सरल बनाता है, जिससे वे आसानी से अपने घरों से आरक्षण कर सकते हैं और ऑर्डर दे सकते हैं।

मैन्युअल प्रबंधन चुनौतियों से पार पाने के लिए, "अन्नपूर्णा" एआई-संचालित एनालिटिक्स और ऑटोमेशन टूल जैसी उन्नत तकनीकों का लाभ उठाती है। यह न केवल त्रुटियों को कम करता है बल्कि असाधारण सेवा प्रदान करने पर ध्यान केंद्रित करने के लिए रेस्तरां कर्मचारियों के लिए मूल्यवान समय भी बचाता है। डेटा की शक्ति का उपयोग करके, प्लेटफॉर्म डेटा-संचालित निर्णय लेने में सक्षम बनाता है, जिससे रेस्तरां मालिकों को अपने ग्राहक आधार की उभरती प्राथमिकताओं को पूरा करने के लिए अपनी पेशकशों को अनुकूलित करने की अनुमति मिलती है।

# Table of Content

Title	Page No
<b>Abstract</b>	<b>V</b>
<b>सार</b>	<b>VI</b>
<b>Chapter 1: Introduction</b>	
1.1 Problem Identification	1
1.2 Parent Organization	1
1.3 Hardware and Software Specification	2
<b>Chapter 2: System Analysis</b>	<b>3-4</b>
2.1 Problem Analysis	5
2.2 Feasibility Study	5
2.2.1 Economical Feasibility Study	5
2.2.2 Technical Feasibility Study	5
2.2.3 Behavioral Feasibility Study	6
2.3 Data Flow Diagram	7
2.3.1 DFD 0	8
2.3.2 DFD 1 For Superadmin	8
2.3.3 DFD 1 For Admin	9
	10
<b>Chapter 3: System Design</b>	<b>11</b>
3.1 Table Structure	11-15
3.2 Entity Relationship Diagram	16
<b>Chapter 4: Testing</b>	<b>17</b>
4.1 Unit Testing	17
4.2 System Testing	18-19
4.3 Compatibility Testing	20
<b>Chapter 5: Implementation</b>	<b>21-22</b>
<b>Chapter 6: Sample Forms and Reports</b>	<b>23-28</b>
<b>Chapter 7: Conclusion and Future scope</b>	<b>29</b>

<b>Bibliography</b>	
<b>Plagiarism Report</b>	<b>30</b>
<b>Fortnightly Progress Report</b>	<b>31</b>
	<b>32-38</b>

# Chapter 1- Introduction

Imagine a world where running a restaurant is easy and booking your favorite food online. That's exactly the "Annapurna" aims to achieve. It's like a digital helper for restaurant owners and customers.

In simple terms, the Annapurna is a special website that helps restaurant owners manage their business smoothly. They can add new restaurants, update menus, and even expand their business to new locations. For managers, the Annapurna makes it super easy to keep things running smoothly. They can handle orders, reservations, and make sure everything is just right for customers. And for all you foodies out there, the Annapurna lets you explore different restaurants, check out their menus, and book your food online.

Whether you are a restaurant owner, manager, or just someone looking for a delicious meal, the Annapurna is here to make your life is very easy. Let's dive in and discover the joy of dining with a click.

## 1.1 Problem Identification

### (a) Manual Management Challenges

Many restaurant owners face some difficulties in manually managing multiple aspects of their businesses, such as adding new restaurants, updating menus, and expanding to new locations. This can lead to inefficiencies and potential errors.

### (b) Operational Regarding Problems

Managers often encounter operational management when handling food orders and reservations. This can result in delays, confusion and experience for both customers and staff.

### (c) Limited Customer Convenience

Without a digital solution like Annapurna, customers may struggle to explore diverse restaurant options, view menus easily and efficiently book their preferred meals online impacting their overall convenience.

### (d) Complex Processes

The absence of a streamlined digital tool may contribute to the complexity of various processes involved in running a restaurant. This complexity can deter potential restaurant owners and managers from entering or expanding in the industry.

### (e) Potential Customer Dissatisfaction

In the absence of an efficient system, there is a higher risk of customer dissatisfaction due to order errors, lack of information on menus or difficulty in securing reservations leading to a negative impact on the restaurant's reputation.

### (f) Limited Scalability

Without proper digital support the scalability of restaurant businesses might be constrained. Owners may find it challenging to expand their operations to new locations and manage the increased workload effectively.

## 1.2 Parent Organization

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

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

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

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

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

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

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

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

## 1.3 Hardware and Software Specifications

### 1.3.1 Hardware Specification

**Hardware Requirement -** To guarantee optimum performance and dependability, we have specified precise specs for the hardware needed for our project. First, we have a Core i5 CPU from the 5000 series, which has a frequency of 2.30 GHz. This processor has a strong processing capacity, which is necessary to effectively manage the computational needs of our project. Our system will have enough memory to facilitate multitasking and manage big datasets with ease when combined with 8 GB of RAM. We will use a 512 GB hard disk drive to store our project files and data, which will be enough storage for our purposes. We'll also include a 512 GB SSD (Solid State Drive), which improves overall system performance and provides quicker data access rates. Our system will run on a 64-bit OS X64 II 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

#### (a) Efficient Management For Owners

According to the recognizes of need for restaurant owners to efficiently manage their businesses by adding more new restaurants and their features, updating menus to adding more foods according to veg and non veg and expanding to new locations.

#### (b) Streamlined Operations For Managers

Acknowledges the need for managers to easily handle food orders, dining reservations, and overall operations, ensuring a smooth experience for customers.

#### (c) Convenience For customers

Addresses the need for customers to explore various restaurants, check menus, and conveniently book their favorite food online, enhancing the overall dining experience.

#### (d) Simplified Processes

Recognizes the need for a digital helper like Annapurna to easier processes for all stakeholders, making running and enjoying a restaurant experience more accessible and enjoyable.

### 2.2 Feasibility Study

#### 2.2.1 Economical Feasibility Study

##### Personnel Expenses

S.no	Personnel Expenses	Cost
1	System Analyst (1) [8 days/month]	3000/-
2	Programmer (1) [25 days/month]	2000/-
3	Database Specialist (1) [10 days/month]	3000/-
	<b>Total</b>	<b>8000/-</b>

##### 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/-
	<b>Total</b>	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/-
<b>Total</b>		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

### (a) User-Friendly Interface

Ensure Annapurna has an intuitive and easy-to-use interface for restaurant owners, managers, and customers to navigate seamlessly.

### (b) Accessibility

Confirm that Annapurna is accessible across various devices and platforms, catering to the diverse preferences of users.

### (c) Real Time Support

Implement a robust customer support system to address queries and concerns promptly, enhancing user experience and satisfaction.

### (d) Scalability Features

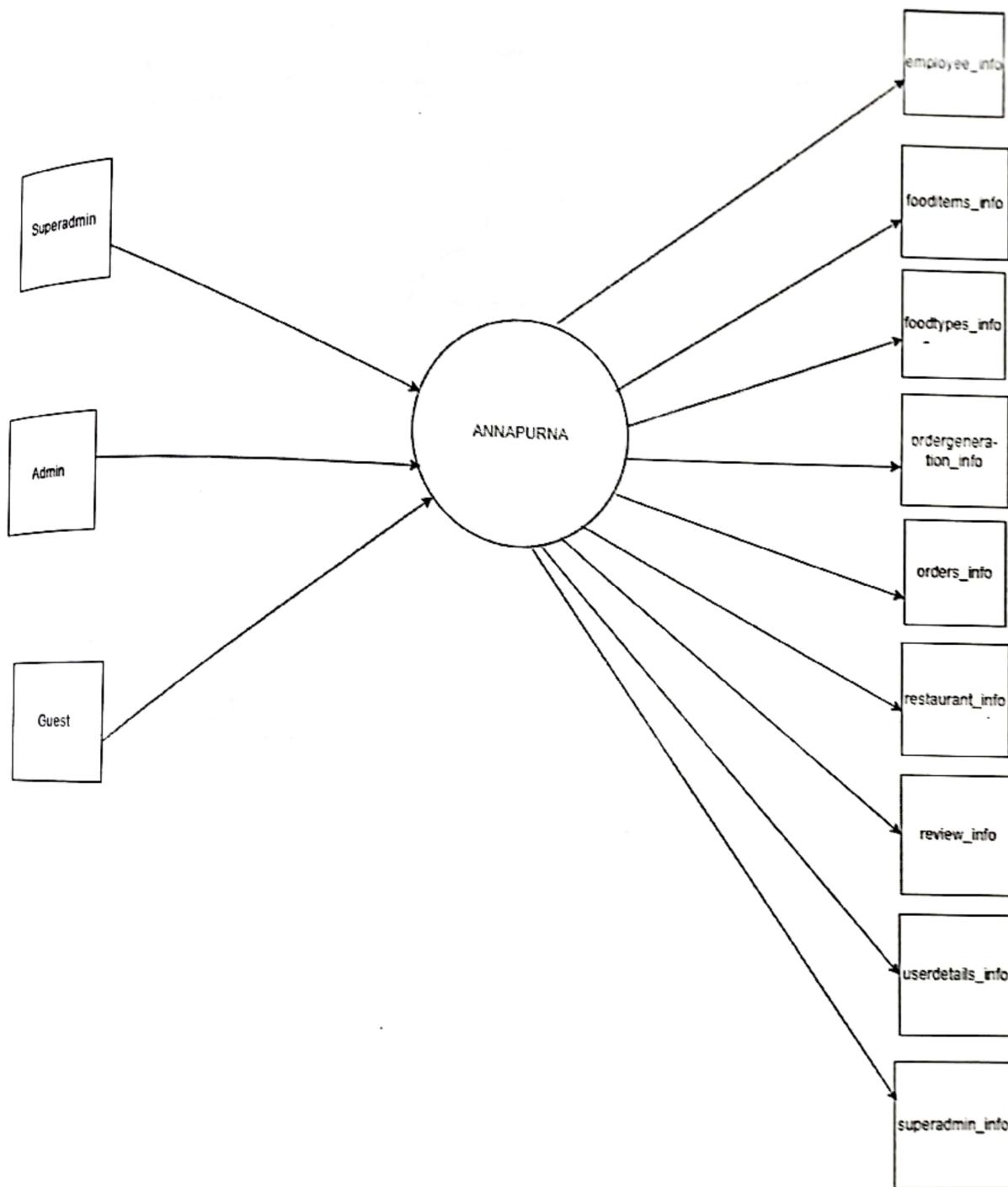
Ensure that Annapurna is equipped to handle increased user loads and restaurant registrations, maintaining performance during periods of growth.

### (e) Performance Optimization

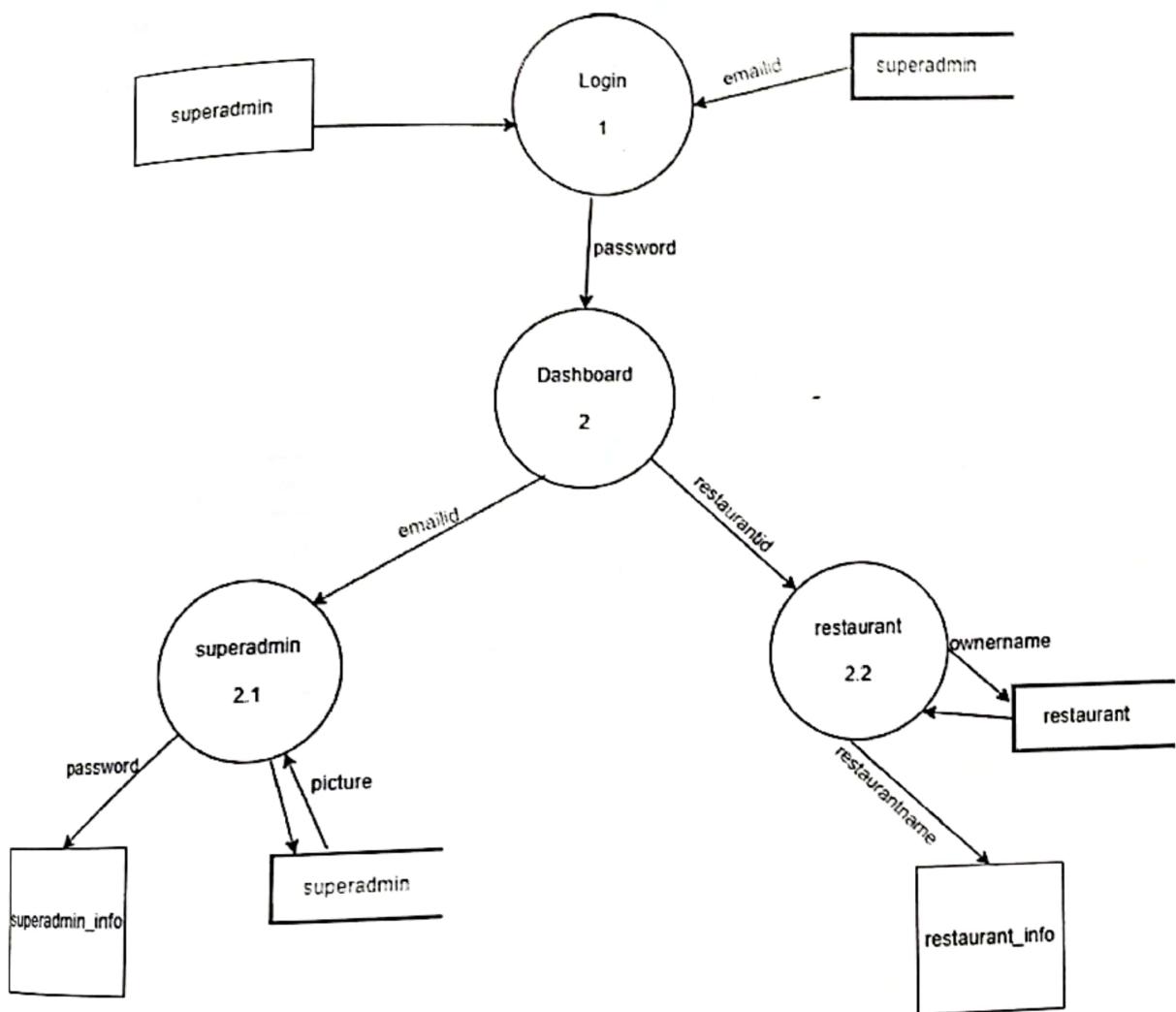
Continuously optimize the performance of Annapurna to deliver a seamless and efficient experience for users, minimizing any potential technical glitches.

## 2.3 Data Flow Diagram

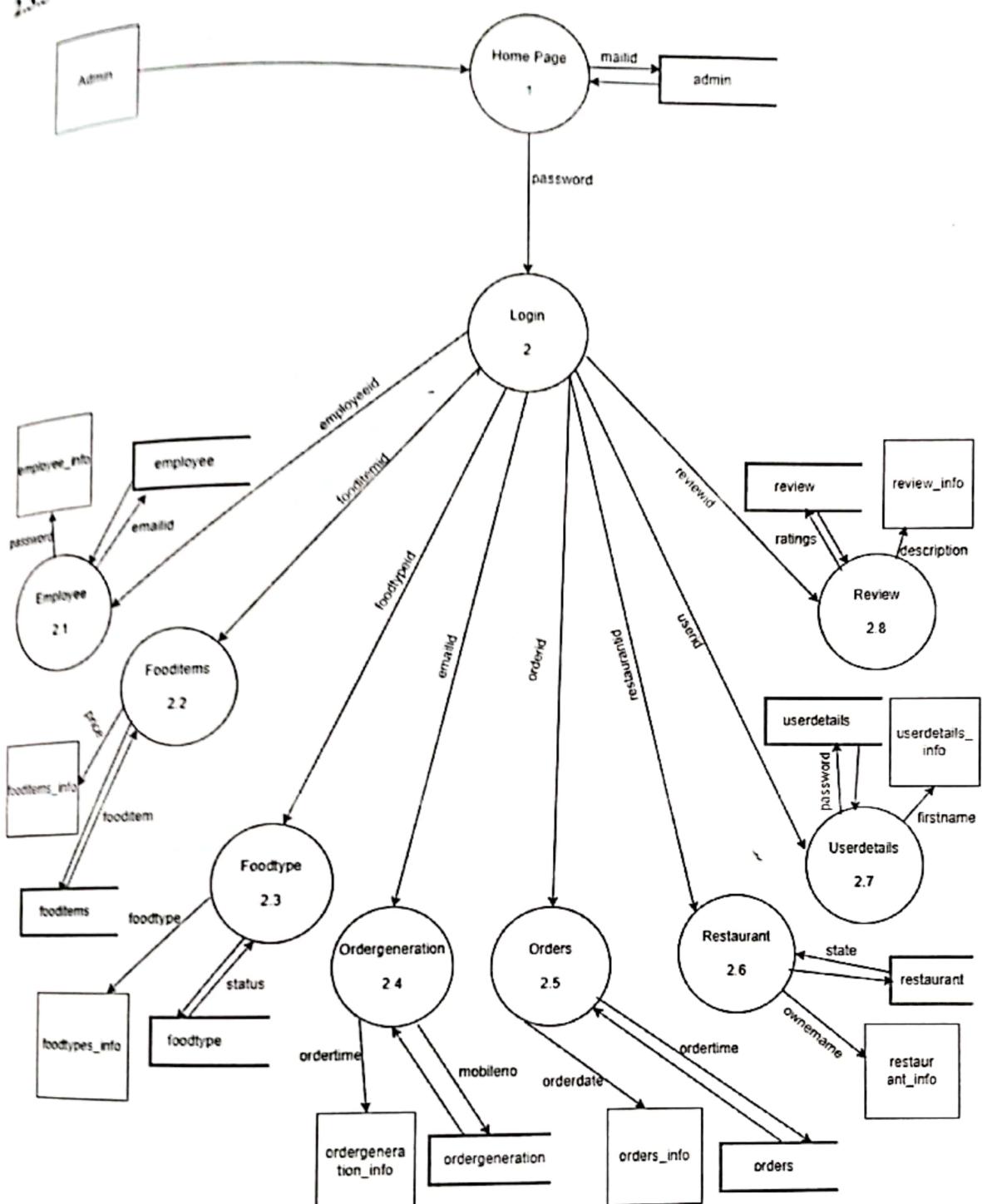
### 2.3.1 DFD 0



### 2.3.2 DFD 1 For Superadmin



### 2.3.3 DFD 1 For admin



## Chapter 3- System Design

### 3.1 Table Structure

a) fooditems

S.no	Field	Type	Constant
1.	fooditemid	int	Primary key
2.	restaurantid	int	Foreign Key
3.	Foodtypeid	int	Foreign Key
4.	fooditem	Varchar (50)	-
5.	price	varchar (20)	-
6.	offer	int	-
7.	ingredients	Varchar (200)	-
8.	ratings	int	-
9.	foodtypeitem	Varchar (50)	-

b) userdetails

S.no	Field	Type	Constant
1.	userid	int	Primary key
2.	restaurantid	int	Foreign key
3.	mobileno	big int	-
4.	emailid	Varchar (100)	-
5.	password	Varchar (20)	
6.	firstname	Varchar (50)	-
7.	lastname	Varchar (50)	-

c) ordergeneration

S.no	Field	Type	Constant
1.	orderid	int	Foreign key
2.	restaurantid	int	Foreign key
3.	ordertime	Varchar (20)	-
4.	mobileno	big int	-
5.	orderdate	date	-
6.	emailid	Varchar (100)	Primary Key
7.	totalamount	int	-

d) orders

S.no	Field	Type	Constant
1.	orderid	int	Primary key
2.	orderdate	date	-
3.	ordertime	Varchar (20)	-
4.	mobileno	big int	-
5.	emailid	varchar (100)	-
6.	fooditem	varchar (100)	-
7.	qtydemand	varchar (100)	-
8.	price	int	-
9.	offer	int	-
10.	deliverystatus	varchar (50)	-
11.	paymentstatus	varchar (50)	-
12.	paymentmode	varchar (50)	-
13.	transactionid	varchar (50)	-
14.	restaurantid	int	Foreign key

15.	fooditemid	int	Foreign key
16.	tableno	int	-
17.	deliverat	varchar (50)	-
18.	totalamount	int	-

c) employee

S.no	Field	Type	Constant
1.	employeeid	int	Primary key
2.	restaurantid	int	Foreign key
3.	employeeusername	Varchar (70)	-
4.	email	Varchar (100)	-
5.	mobilenumber	big int	-
6.	address	Varchar (500)	-
7.	designation	Varchar (30)	-
8.	status	Varchar (50)	-
9.	photograph	Varchar (30)	-
10.	joiningdate	Varchar (50)	-
11.	dob	Varchar (50)	-
12.	password	Varchar (20)	-

d) review

S.no	Field	Type	Constant
1.	reviewid	int	Primary key
2.	restaurantid	int	Foreign key
3.	ratings	int	-

4.	description	Varchar (500)	-
5.	usermobile	big int	-
6.	date	date	-
7.	username	Varchar (50)	-

g) restaurant

S.no	Field	Type	Constant
1.	restaurantid	int	Primary key
2.	restaurantname	Varchar (100)	-
3.	ownername	Varchar (100)	-
4.	address	Varchar (200)	-
5.	state	Varchar (100)	-
6.	city	Varchar (100)	-
7.	zipcode	Varchar (10)	-
8.	emailaddress	Varchar (100)	-
9.	type	Varchar (100)	-
10.	mobilenumber	big int	-
11.	shopact	Varchar (40)	-
12.	fssai	Varchar (40)	-
13.	gst	Varchar (40)	-
14.	status	Varchar (40)	-
15.	logo	Varchar (40)	-
16.	password	Varchar (20)	-
17.	rooftables	Varchar (40)	-

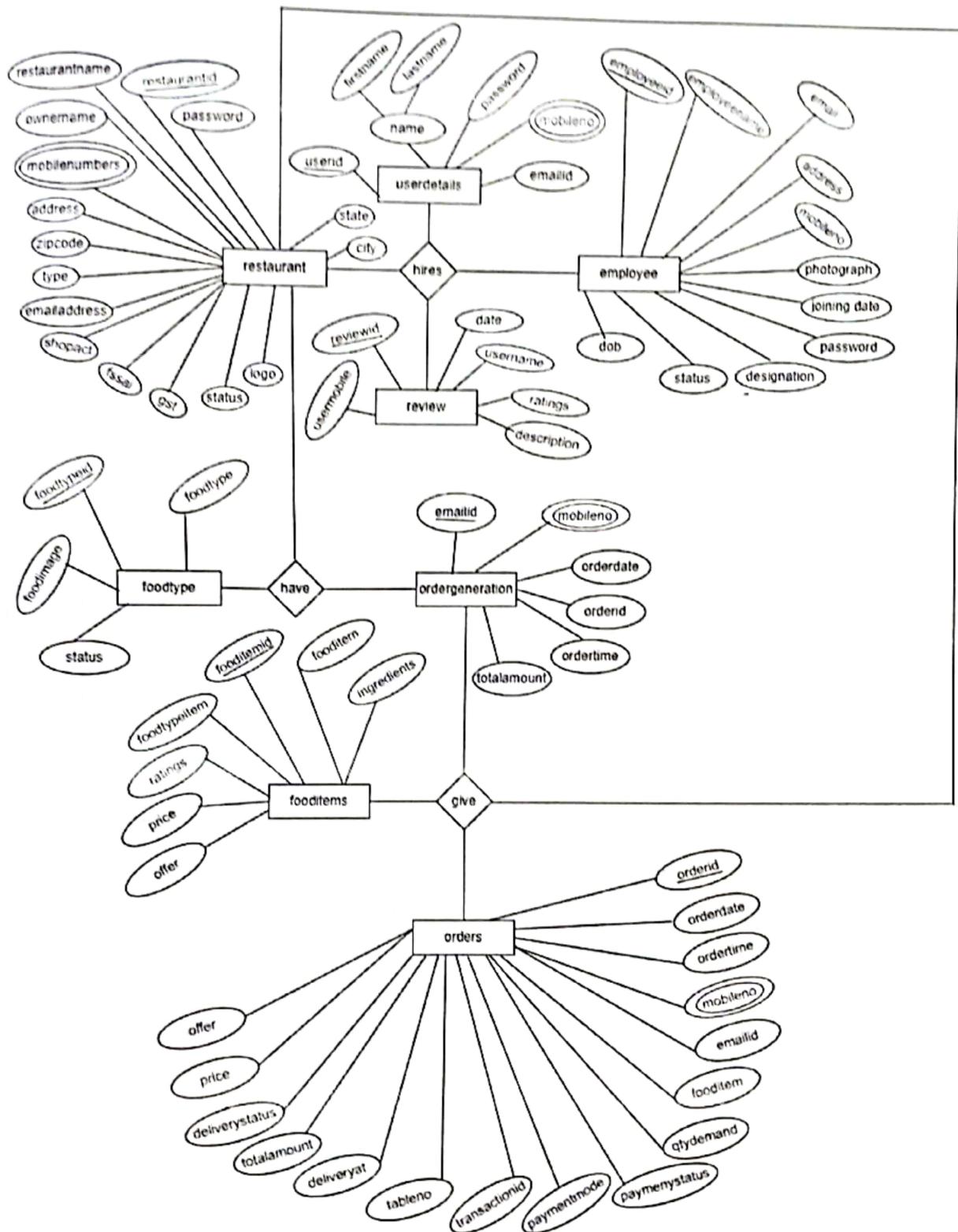
**h) foodtypes**

S.no	Field	Type	Constant
1.	foodtypeid	int	Primary key
2.	restaurantid	int	Foreign Key
3.	foodtype	Varchar (70)	-
4.	foodimage	Varchar (50)	-
5.	status	Varchar (50)	-

**i) Superadmin**

S.no	Field	Type	Constant
1.	emailid	Varchar (100)	Primary Key
2.	password	Varchar (50)	-
3.	picture	Varchar (20)	-

### 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	Test Data	Expected Result	Actual Result
1	Superadmin Login	emailaddress, password	No Data -	Please fill this field	Test case passed
		emailaddress, password	Sandeep@gmail.com/*********	Error	Test case passed
		emailaddress, password	Sandeep@gmail.com/*********	Login Successfully	Test case passed
2	Admin Login	emailaddress, password	No Data	Please fill this field	Test case passed
		emailaddress, password	Sandeepofficial@gmail.com/*********	Error	Test case passed
		emailaddress, password	Sandeepofficial@gmail.com/*********	Login Successfully	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 on the website.

## 4.2 System testing

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

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

<u>Test Case ID</u>	<u>Test Case Scenario</u>	<u>Input / Test Data</u>	<u>Pass Condition</u>	<u>Fail Condition</u>	<u>Test Result</u>
1	Search Functionality	Click on specific element related to search restaurant, fooditems, etc.	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. 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>
2	Authentication Testing	Verify User Authentication	Users are granted access only with valid credentials.	Allowing unauthorized access.	Pass
3	Authorization Testing	Test Access Controls	User can access only the resources authorized for their roles and permissions.	Users can access unauthorized resource and perform unauthorized actions, indicating a failure in access controls.	Pass

### 4.3 Compatibility Testing

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

#### Test Cases

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

## Chapter 5- Implementation

### 5.1 Visual studio Code

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

### 5.2 MySQL Workbench

- a. First go to the official website of MySQL <https://www.mysql.com>.
- b. There you will find the download button
- c. Then click on MySQL community (GPL) downloads
- d. Click on MySQL installer for windows for 64 bit
- e. Click on the first download link
- f. Then click on the custom button
- g. Expand MySQL server then expand MySQL server 8.0
- h. Then double click on the latest version
- i. Click on next
- j. Click on execute
- k. Set your password click on next
- l. Then automatically MySQL workbench window will open

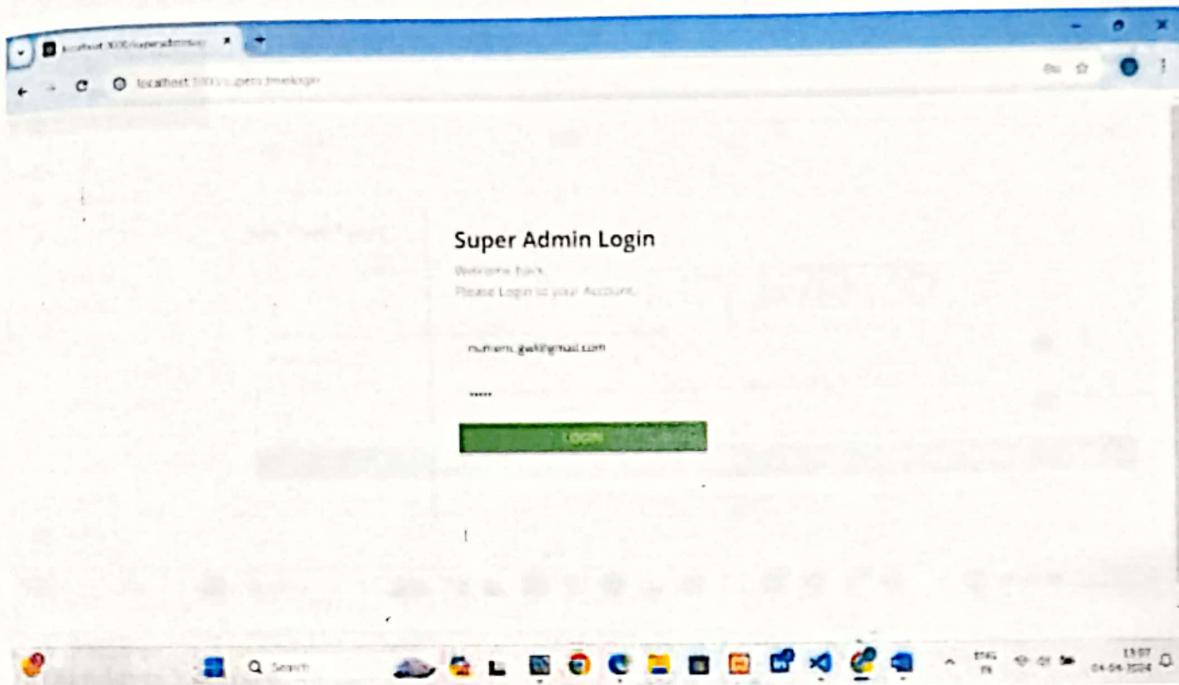
### 5.3 Express JS

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

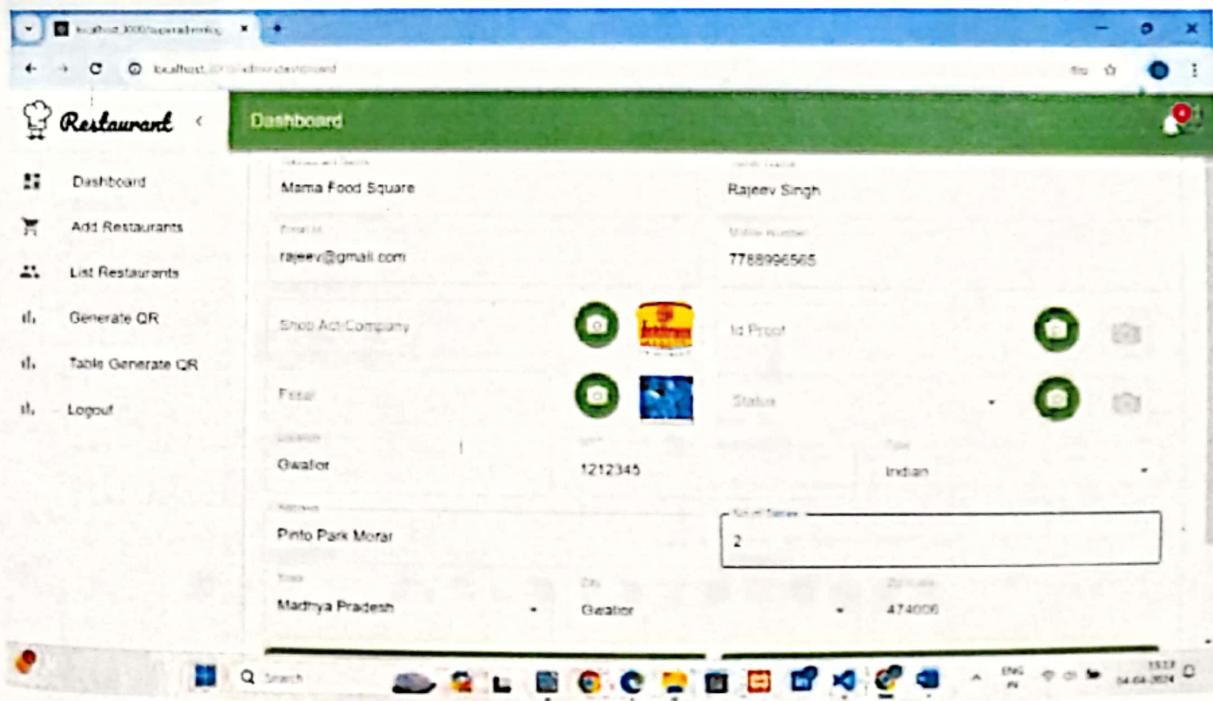
The project runs from Home Page their user will have the option of super-admin login and about us. Once the user click on login the option to enter emailid and password, after entering correct password then they will be navigated to the super-admin dashboard. An invalid username and password will give error. In dashboard super-admin have the dashboard in which one can maintain and update the restaurants. After getting mentorship restaurant owner have the option of category and food-items, food type etc , 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

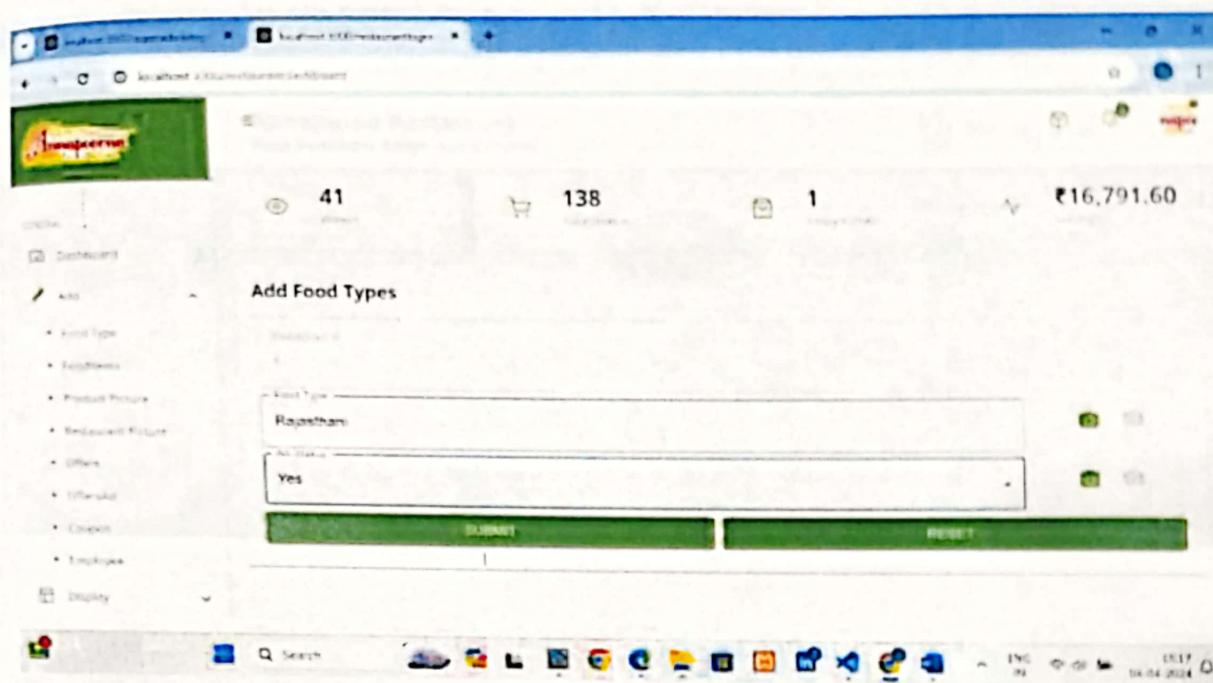
(a) super admin login



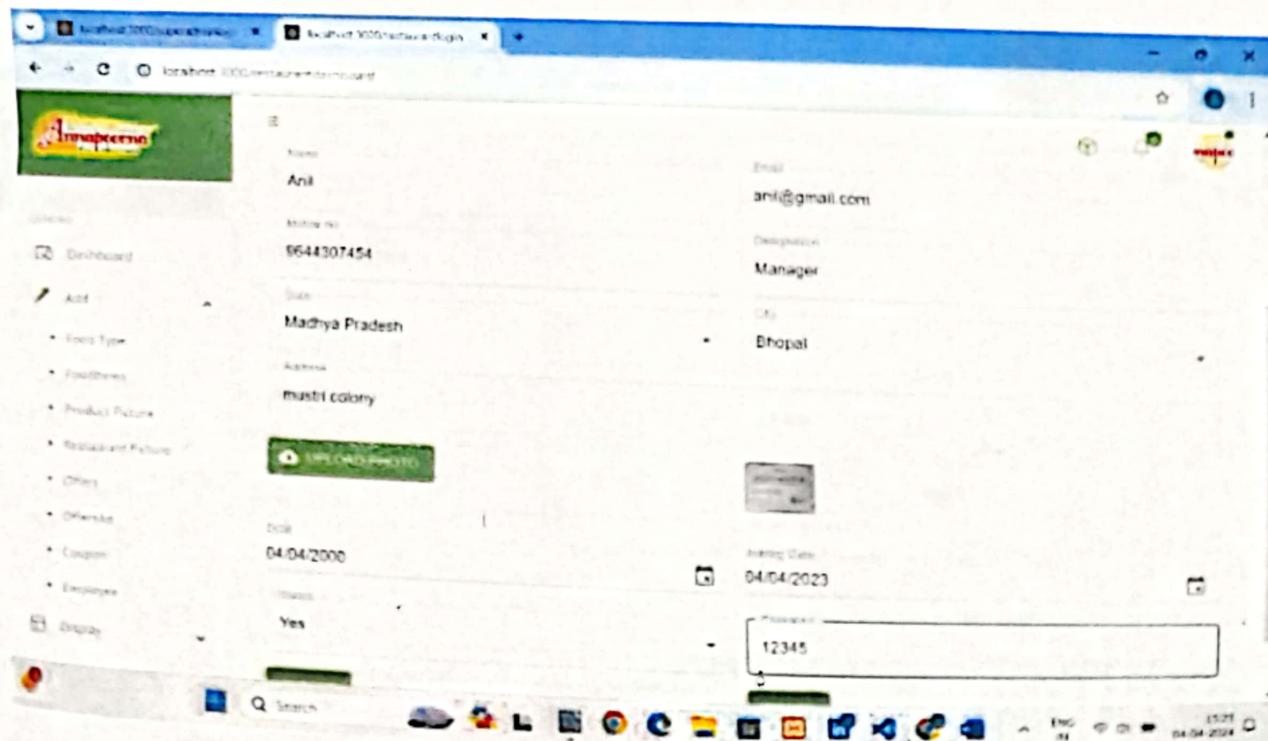
(b) super admin dashboard



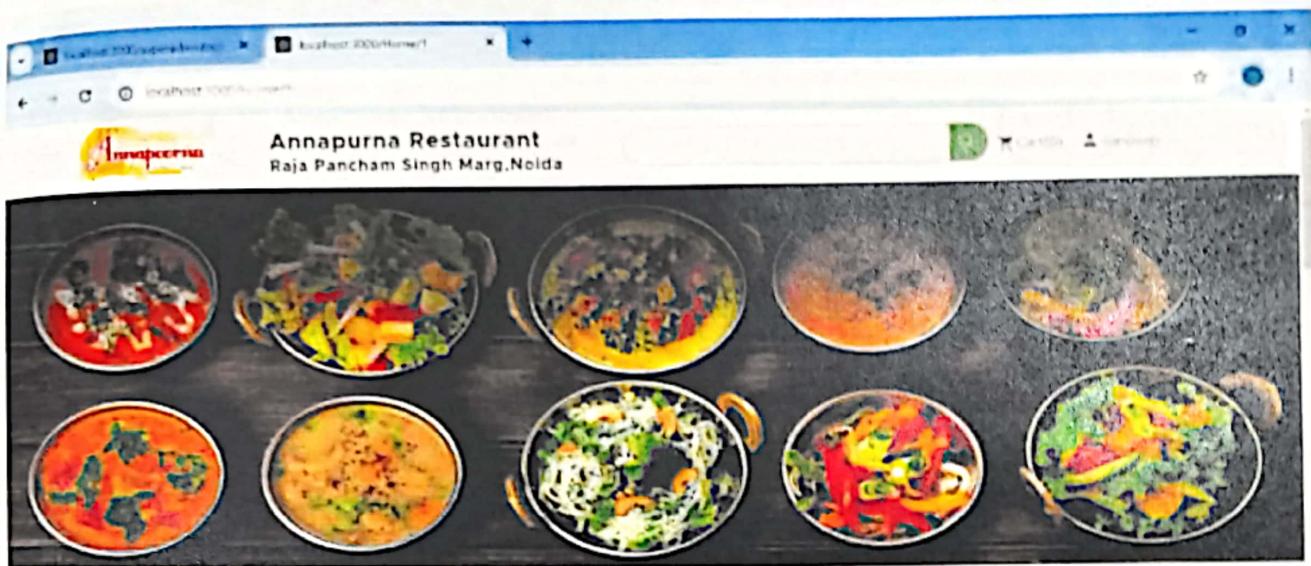
(c) admin dashboard



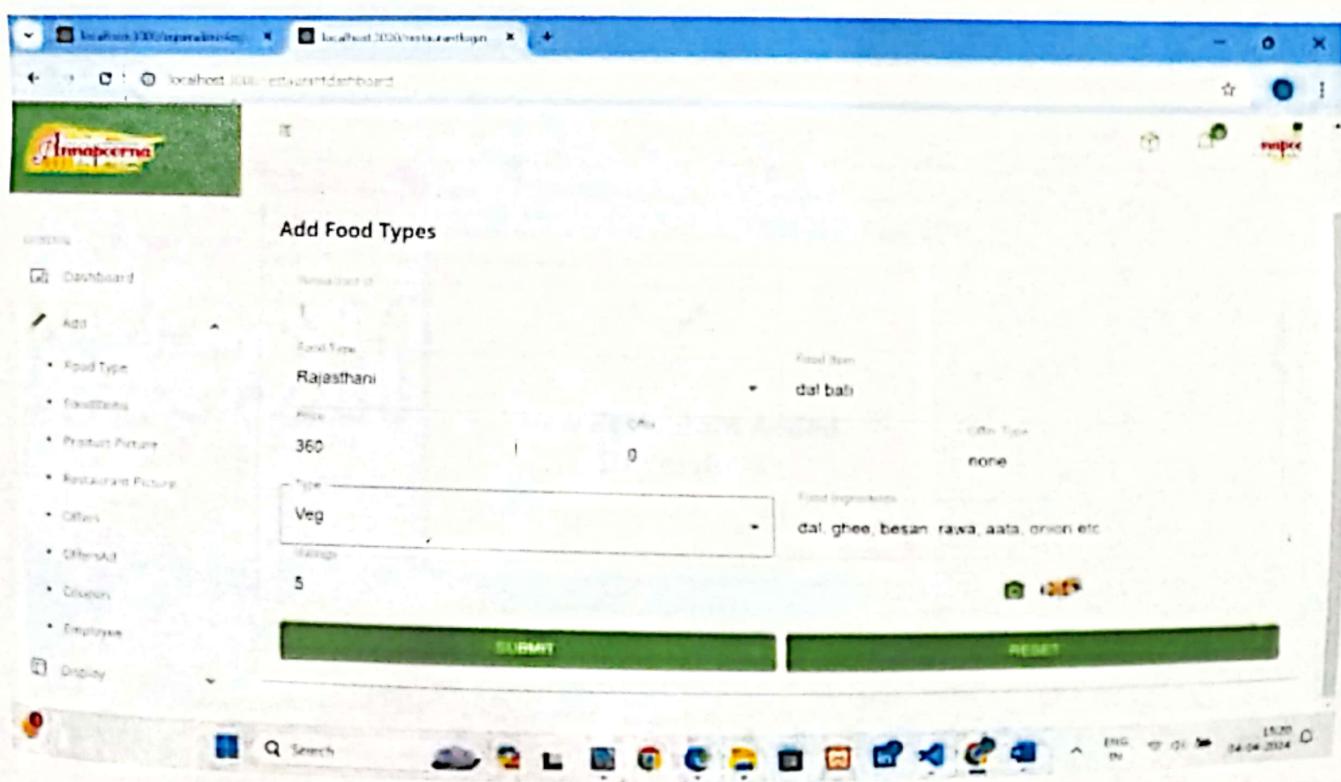
(d) employee interface



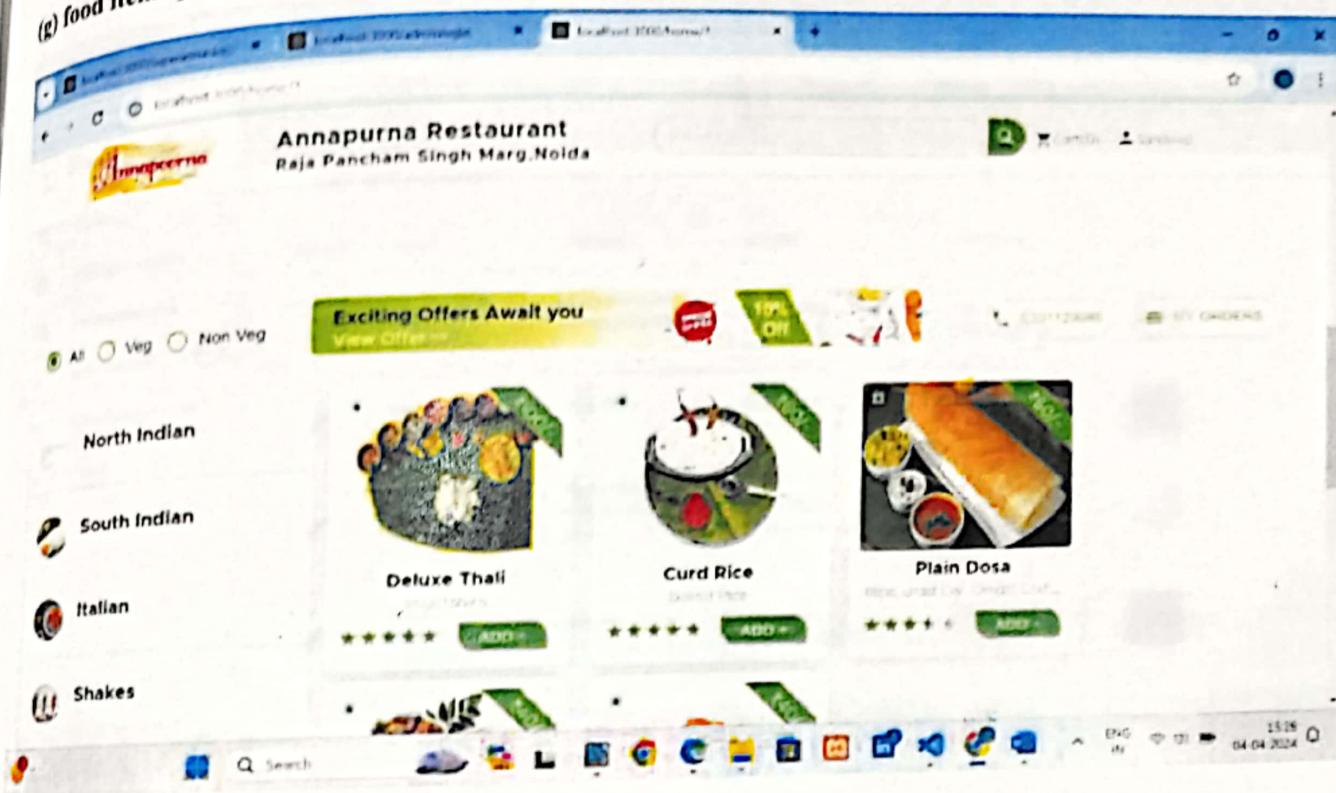
(e) home page



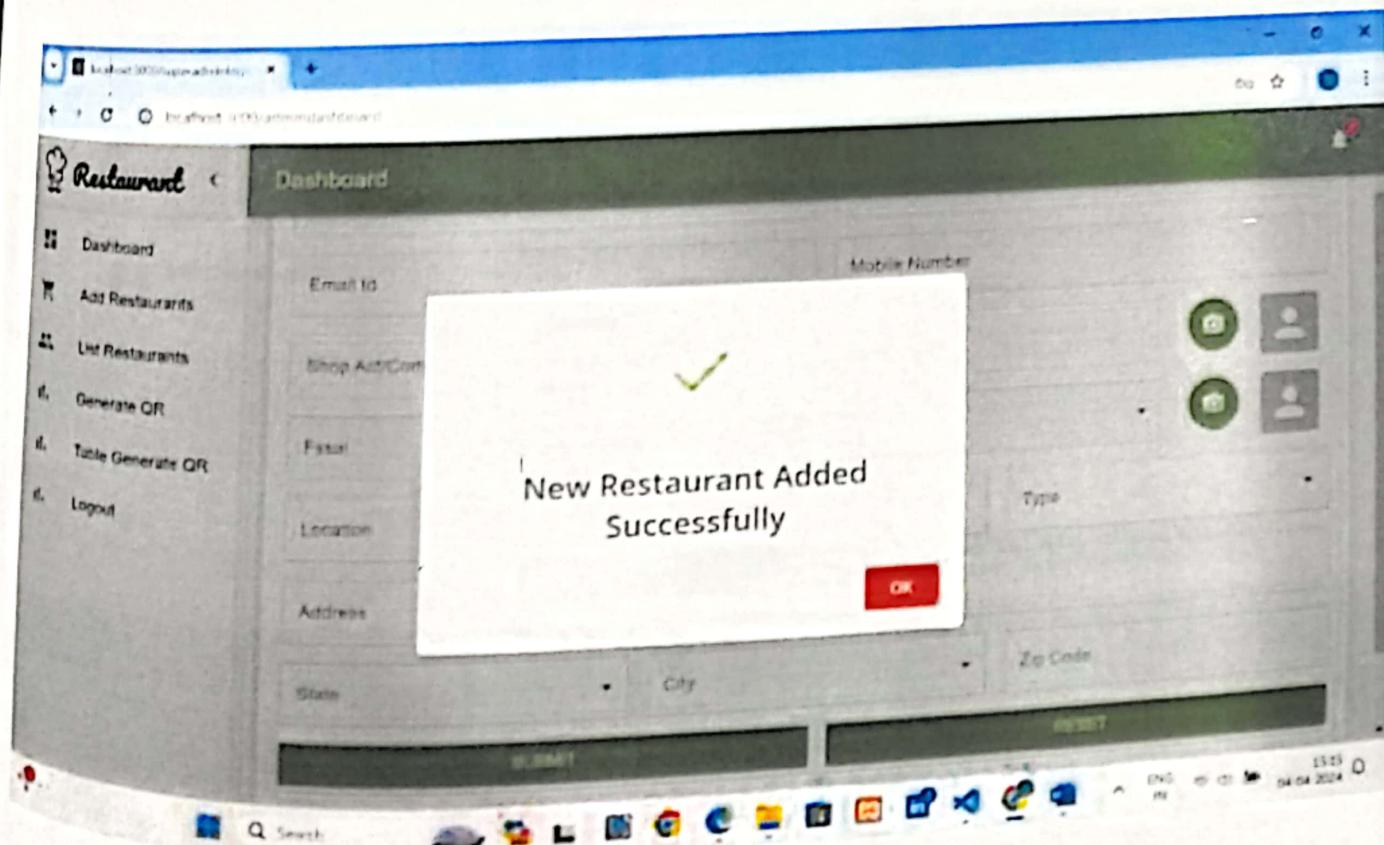
(f) food type interface



(g) food items page



(h) restaurant added successfully



(i) restaurant list

Action	Name	Address	Contact	GST File	Logo
<a href="#">Edit</a>	Annapurna Rajni Dasi	Raja Pancham Singh Marg, Noida	9301123085 xx@gmail.com	10 00000000000000000000000000000000	
<a href="#">Edit</a>	bambu series	Pinto Park	7896541233 bamboo@gmail.com	11 00000000000000000000000000000000	
<a href="#">Edit</a>	bbb mmmm	FL-401 DO Nager Near swimming pool	8839357421 nidhiurand7@gmail.com	12 00000000000000000000000000000000	
<a href="#">Edit</a>	Mama Food Square Rajeev Singh	Pinto Park, Morai	7788994565 rajeev@gmail.com	13 00000000000000000000000000000000	

(j) profile page

Annarpurna Restaurant  
Raja Pancham Singh Marg, Noida

Sandeep Singh  
+91 9301123085

Orders History

My Profile

Address

Logout

Personal Information

You can update your details.

Your First Name: Sandeep

Your Last Name: Singh

Your Address: 9301123085

Your Email: numeric.gal@gmail.com

UPDATE

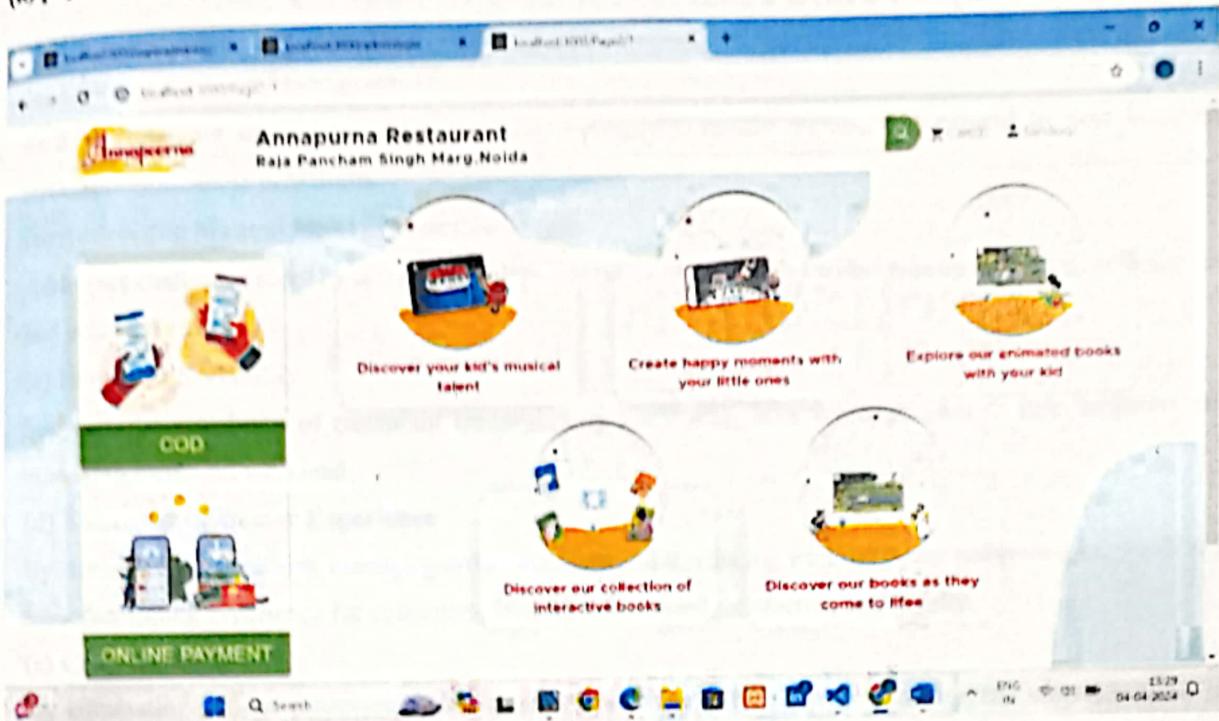
Dial Hunger Restaurant  
A-348, Indira Nagar, Near Brookmath  
Market, Lucknow, Uttar Pradesh

TERMS & CONDITIONS  
REFUND & CANCELLATION

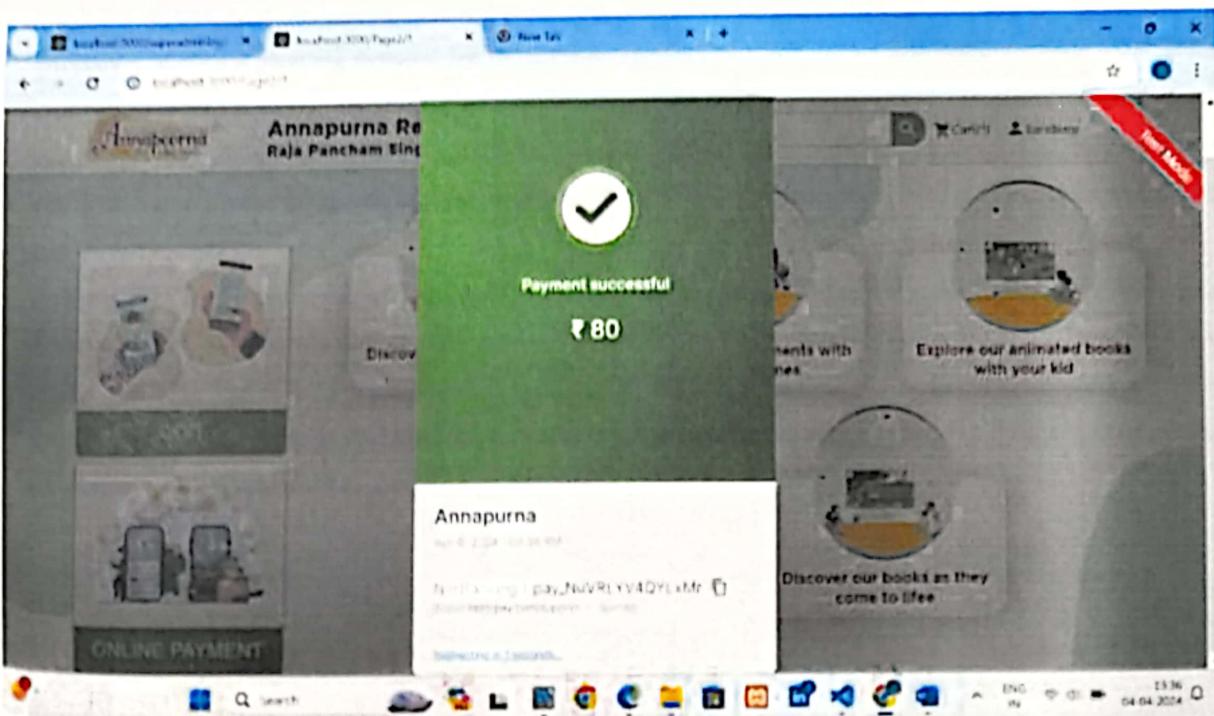
Online store created using digital  
SHOWROOM

Download App

(k) payment page



(l) payment status



## Chapter 7- Conclusion and Future Scope

### **(a) Efficient Business Management**

Enables restaurant owners to easily add new restaurants, update menus, and expand to new locations, streamlining business operations.

### **(b) Addressing Manual Management Challenges**

Addresses challenges faced by restaurant owners in manually managing various aspects, reducing inefficiencies and potential errors.

### **(c) Improved Scalability**

Supports the scalability of restaurant businesses by facilitating effective expansion to new locations and managing increased workload.

### **(d) Enhanced Customer Experience**

By streamlining operations, managing orders efficiently, and reducing wait times, the software contributes to a smoother dining experience for customers, leading to increased satisfaction and loyalty.

### **(e) Cost Savings**

By automating various processes, reducing errors, and improving overall efficiency, the software helps in cutting down operational costs and maximizing profits, providing a significant return on investment for restaurant owners.

Moreover, there's a growing demand for seamless integration between online and offline dining experiences. Annapurna could focus on enhancing its mobile and online ordering capabilities, providing customers with convenient ways to browse menus, place orders, and make reservations from their smartphones. This integration could extend to loyalty programs and personalized offers, enhancing customer engagement and fostering long-term loyalty.

As sustainability becomes increasingly important in the restaurant industry, Annapurna could also incorporate features to help restaurants reduce their environmental footprint. This could include tools for tracking food waste, sourcing ingredients from local suppliers, and implementing energy-efficient practices in kitchen operations. By supporting sustainable initiatives, Annapurna can appeal to environmentally-conscious consumers and help restaurant owners align with their values

## Bibliography

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<https://www.github.com>

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

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

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

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

<https://visualstudio.microsoft.com/downloads.>

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

<https://react.dev/>

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Name of student	SANDEEP BAGHEL		Department	MCA	
Industry/Organization	Numeric Infosystem Pvt Ltd		Date/Duration	01/01/24 - 15/01/24	
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	<p>Discussed about technology used in project as well as about the database.</p>				
<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>					

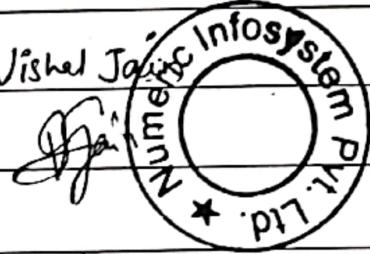
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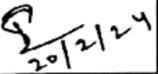
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Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Learnt Connectivity with database and maintained tables.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERYGOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Vishal Jain				
<u>Signature of Industry Mentor</u>					

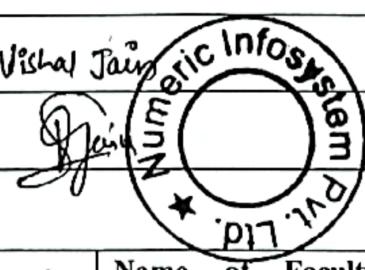
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Industry/Organization	Numerie Infosystem Pvt Ltd		Date/Duration	01/02/24 - 15/02/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Completed React Setup, Redux handling				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Vishal Jaiswal				
Signature of Industry Mentor					

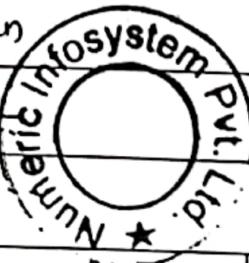
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Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	<p>Completed CRUD on Category module and Restaurant Registration.</p>				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Vishal Jain				
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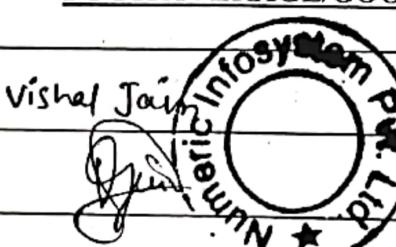
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Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	<p>Worked on Root Reducer and Components of footer, Header and Home.</p>				
Overall Grade (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	<u>Vishal Jain</u>				
Signature of Industry Mentor					
Receiving Date	21/3/24	Name of Faculty Mentor	PARUL SAXENA		Sign 

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

Name of student	SANDEEP BAGHEL		Department	MCA	
Industry/Organization	Numeric Infosystem Pvt Ltd.		Date/Duration	16/03/24 - 31/03/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work	<input checked="" type="checkbox"/>				
Learning capacity/Knowledge up gradation	<input checked="" type="checkbox"/>				
Performance/Quality of work	<input checked="" type="checkbox"/>				
Behaviour/Discipline/Team work	<input checked="" type="checkbox"/>				
Sincerity/Hard work	<input checked="" type="checkbox"/>				
Comment on nature of work done/Area/Topic	Worked on Billing System and Cost.				
OVERALL GRADE (Any one)	<u>POOR/AVERAGE/GOOD/VERYGOOD/EXCELLENT</u>				
Name of Industry Mentor	Vishal Jain				
Signature of Industry Mentor	 				
Receiving Date	31/4/24	Name of Faculty Mentor	PARUL SAXENA	Sign	

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Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
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<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
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Signature of Industry Mentor					

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