A PROJECT ON

CLOUD CUISINE - (FOOD DELIVERY APPLICATION)

SUBMITTED IN

PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC

INFOWAY TECHNOLOGY
Pune

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UNDER THE GUIDENCE OF:

CERTIFICATE

This is to certify that the project work under the title 'FOOD DELIVERY APPLICATION' is done by Mr. Riyaj Bagwan, Mr. Rohan Raikwar and Miss. Yashashri Gosavi in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Project Guide **Course Co-Coordinator**

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We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

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ABSTRACT

Cloud Cuisine offers a seamless web application designed to revolutionize the homemade food market by facilitating easy access for customers to purchase locally prepared meals. This platform stands out by enabling users to register, explore diverse menu types, select from a variety of menus, manage orders, and enjoy comprehensive order-to-delivery-to-payment services.

Mirroring the operational model of established food delivery services like Zomato and Swiggy, Cloud Cuisine connects customers with a curated selection of home kitchens, streamlining the food ordering process from selection to delivery. Once an order is placed, the system efficiently processes the details and assigns a delivery partner available in the customer's region, ensuring timely and reliable service.

The technical backbone of Cloud Cuisine is built on React front-end for a user interface experience, and a MySQL database integrated with Spring Boot (J2EE) for the back-end to manage the application's data and operations securely.

A number of development methodologies were discussed and why one of the methodologies was chosen for this project. Methods used to gather the requirement specification was also discussed and how the researcher will use this as a guideline in developing the proposed system.

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1. INTRODUCTION TO PROJECT

Cloud Cuisine introduces an innovative web application designed to redefine the homemade food delivery experience. This system embraces the core concepts of food shopping online and focuses on local, homemade culinary delights.

Within Cloud Cuisine, customers can effortlessly navigate through an extensive menu categorized by food types. Our platform is particularly user-friendly, offering a streamlined process for adding selected homemade dishes to the cart based on their preferences and descriptions.

Order placement is intuitive, requiring customers to specify a delivery address from their pre-saved list—though only one address can be chosen per order. The system mandates the provision of a delivery address to proceed with the order. Following address selection, customers choose their payment method, completing the order process with ease. These actions trigger real-time updates in the database, ensuring accuracy and reliability.

Cloud Cuisine's administrative features are robust, allowing for the addition or removal of menu types and items by the platform's admin. Admin can monitor the order-to-delivery process for every customer.

2. PROJECT OVERVIEW AND SUMMARY

PURPOSE

The purpose of the Cloud Cuisine project is to enhance the experience of purchasing homemade food. It's very difficult to get homemade food when you are staying in the other city far from your hometown.

Cloud Cuisine is proposed as a solution to these challenges, offering an online platform that facilitates easy access to a wide variety of homemade foods. This project is designed to make the process of ordering homemade meals convenient and accessible to everyone, directly from the comfort of their homes. By leveraging a web-based application, Cloud Cuisine enables users to explore and order from an extensive selection of homemade dishes, streamlining the entire process from order to delivery.

Key features of Cloud Cuisine include the ability to keep track of purchase orders, view detailed menus and dishes available from home kitchens, and manage order details and delivery options. The system is designed to maintain a history of orders and their respective timings, enhancing the customer experience through efficient service and delivery.

The admin panel of Cloud Cuisine can track all events related to kitchens, users, and delivery from order receipts to delivery status.

Through Cloud Cuisine, we aim to revolutionize the way people access homemade meals, providing a user-friendly, efficient, and secure

Platform that bridges the gap between home chefs and customers seeking authentic, homemade culinary experiences.

SCOPE

- ✓ Currently, purchasing homemade food has become a challenge in urban areas due to logistical constraints like traffic and distance.
- ✓ Small and medium-scale home kitchens face difficulties in managing customer data and the services offered to them, particularly because many rely on inefficient paper-based systems.
- ✓ It is challenging for these home-based food providers to maintain comprehensive data over extended periods due to the limitations of their current record-keeping methods.
- ✓ Customers often find it challenging to locate nearby food providers that offer authentic and homemade meals, reflecting a gap in the market for a service that connects them directly with home chefs.
- ✓ Cloud Cuisine addresses these challenges by providing a digital platform where home kitchens can efficiently manage data related to customers and the services they offer, moving away from unreliable paper-based systems to a secure, scalable online solution.
- ✓ From the customer's perspective, Cloud Cuisine simplifies the decision-making process by offering a diverse selection of homemade meals across various categories, sourced from multiple home kitchens. This ensures ease of choice and access to authentic homemade food.

USER CLASSES AND CHARACTERISTICS

In the Cloud Cuisine platform, an Administrator plays a pivotal role, with the capability to introduce new categories of homemade menu items, enriching the variety and options available to customers. This feature allows the platform to cater to a wide range of culinary preferences and dietary requirements, ensuring a diverse and inclusive selection of homemade meals.

Customers are encouraged to register on the Cloud Cuisine platform, a process designed to be straightforward and user-friendly. Once registered, they gain access to a vast selection of homemade dishes, enabling them to explore, choose, and order their favorite meals from the comfort of their homes. The platform facilitates an easy browsing experience, allowing customers to discover new and traditional homemade dishes across various categories.

Home Kitchens, rather than restaurants, are invited to register and list their homemade food products. This feature is designed to provide home chefs with a digital storefront through which they can reach a wider audience, showcase their culinary skills, and manage orders efficiently. It offers a unique opportunity for small-scale food providers to participate in the digital economy and connect with customers seeking authentic homemade meals.

Delivery Personnel are integrated into the system with features that enable them to view the list of orders and their current statuses. This functionality ensures that delivery personnel are well-informed of their delivery schedules, contributing to a seamless and efficient order-to-delivery process. It supports real-time updates and tracking, enhancing the delivery experience for both the customers and the delivery team.

TECHNOLOGIES USED

- MySQL
- React-JS
- Spring Boot

FUNCTIONAL REQUIREMENTS

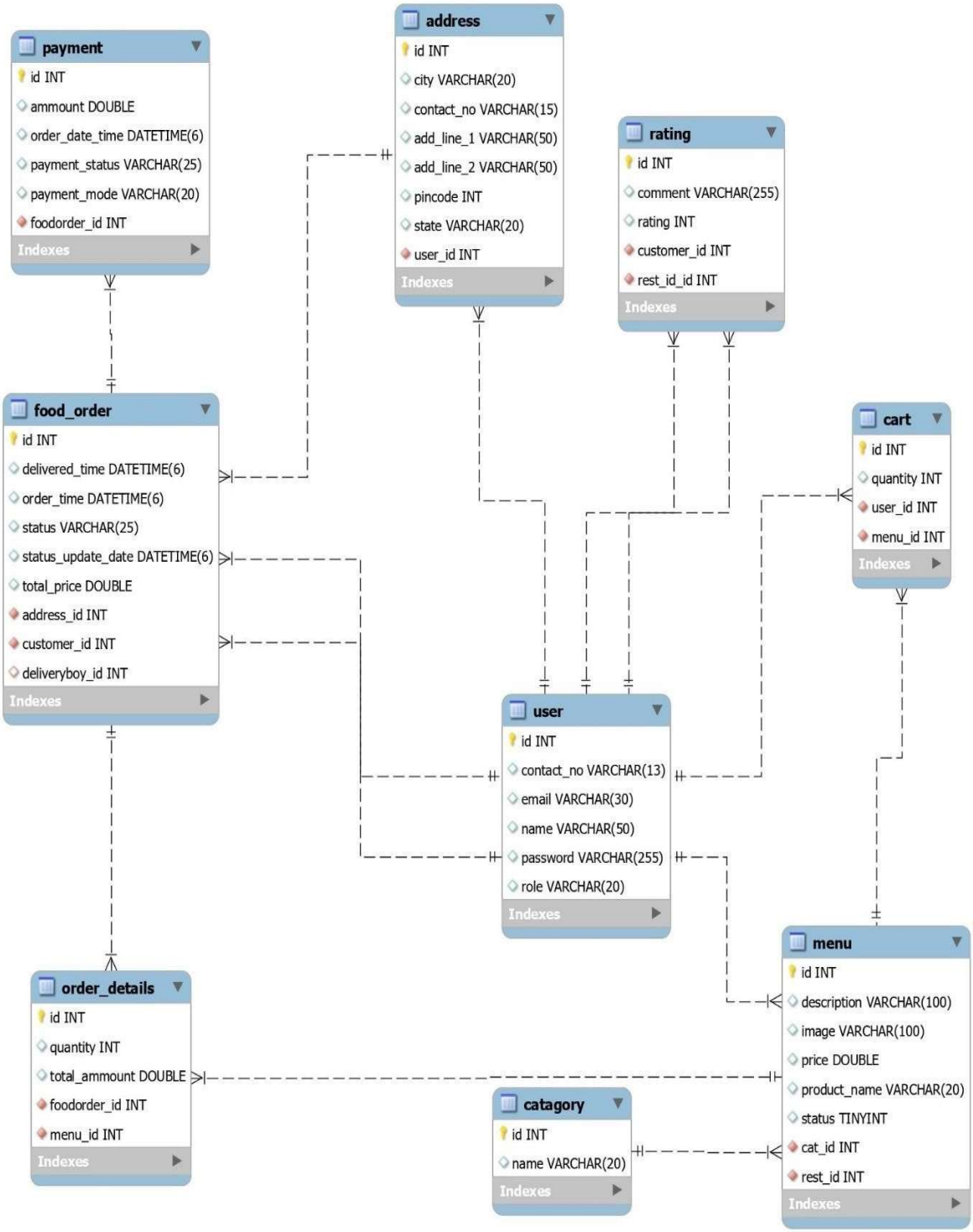
The major functionality of this project is divided into four categories.

- Administrative Functions.
- Customer Functions.
- Kitchen Functions.
- Delivery Boy Functions.

In this application every user must have their Email ID and Password, using these Email IDs and Password only they can directly enter into their corresponding Login forms.

System analysis will be performed to determine if it is feasible to design information based on the policies and plans of the organization and user requirements and to eliminate the weaknesses of the present system.

ER-DIAGRAM


payment
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payment_status VARCHAR(25)
payment_mode VARCHAR(20)
foodorder_id INT
Indexes
address
id INT
city VARCHAR(20)
contact_no VARCHAR(15)
add_line_1 VARCHAR(50)
add_line_2 VARCHAR(50)
pincode INT
state VARCHAR(20)
user_id INT
Indexes
rating
id INT
comment VARCHAR(255)
rating INT
customer_id INT
rest_id_id INT
Indexes
food_order
id INT
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order_time DATETIME(6)
status VARCHAR(25)
status_update_date DATETIME(6)
total_price DOUBLE
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customer_id INT
deliveryboy_id INT
Indexes
cart
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quantity INT
user_id INT
menu_id INT
Indexes
user
id INT
contact_no VARCHAR(13)
email VARCHAR(30)
name VARCHAR(50)
password VARCHAR(255)
role VARCHAR(20)
Indexes
order_details
id INT
quantity INT
total_ammount DOUBLE
foodorder_id INT
menu_id INT
Indexes
catagory
id INT
name VARCHAR(20)
Indexes
menu
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description VARCHAR(100)
image VARCHAR(100)
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product_name VARCHAR(20)
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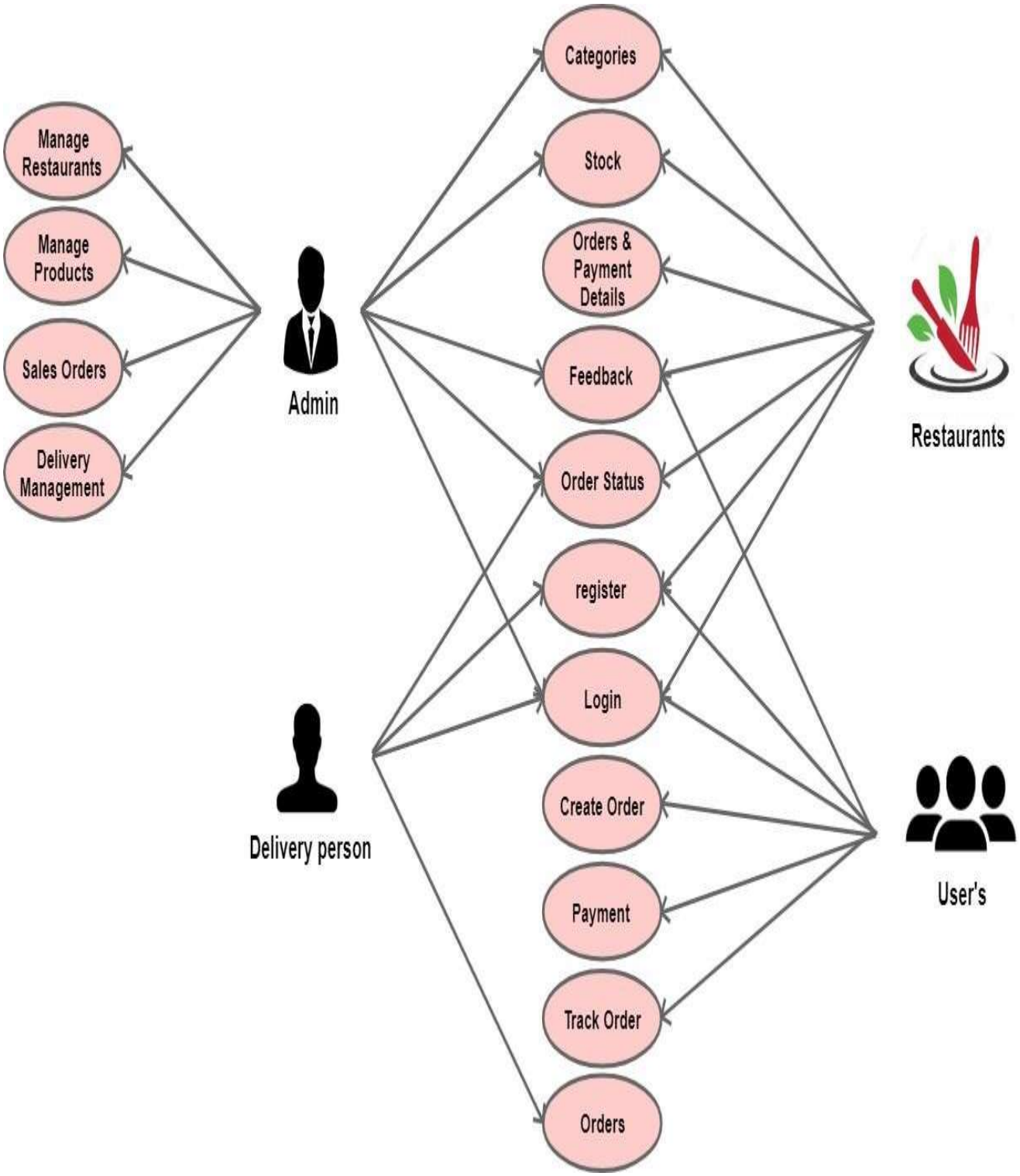
cat_id INT
rest_id INT
Indexes

USE-CASE


Manage Restaurants
Manage Products
Sales Orders
Delivery Management
Admin
Delivery person
Categories
Stock
Orders & Payment Details
Feedback
Order Status
register
Login
Create Order
Payment
Track Order
Orders
Restaurants
User's

DATABASE DESIGN

Users

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
email	varchar	No	UNI	NULL	
name	varchar	Yes		NULL	
password	varchar	No		NULL	
contact	varchar	Yes		NULL	
status	enum	NO		NULL	
role	varchar	Yes		NULL	

Addresses

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
address_line_1	Varchar	Yes		NULL	
address_line_2	Varchar	Yes		NULL	
city	Varchar	Yes		NULL	
contact	Varchar	No		NULL	
pin_code	Varchar	Yes		NULL	
state	varchar	Yes		NULL	
user_id	int	No	MUL	NULL	

Cart

Field	Type	NULL	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
user_id	int	YES	MUL	NULL	
menu_id	int	YES	MUL	NULL	

Category

Field	Type	NULL	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar	YES		NULL	

Menu

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
description	varchar	Yes	UNI	NULL	
product_name	varchar	Yes		NULL	
image	varchar	Tes		NULL	
price	double	Yes		NULL	
Status	tinyInt	yes		NULL	
category_id	int	Yes	MUL	NULL	
type	enum('VEG','NONVEG')	YES		NULL	
rest_id	int	No	MUL	NULL	

Payments

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
amount	double	No		NULL	
order_date_time	datetime	Yes		NULL	
payment_status	varchar	Yes		NULL	
payment_mode	varchar	Yes		NULL	
foodorder_id	int	Yes	MUL	NULL	

food_order

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
delivered_time	datetime(6)	Yes		NULL	
order_time	datetime(6)	Yes		NULL	
status	enum	Yes		NULL	
status_update_date	datetime(6)	NO		NULL	
total_price	double	NO		NULL	
address_id	int	NO	MUL	NULL	
customer_id	int	NO	MUL	NULL	
deliveryboy_id	int	NO	MUL	NULL	

Rating

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
comment	Varchar	Yes		NULL	
rating	int	Yes		NULL	
customer_id	int	No	MUL	NULL	
user_id	int	No	MUL	NULL	

Order_Details

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
total_ammount	double	No		NULL	
quantity	int	No		NULL	
foodorder_id	int	No	MUL	NULL	
menu_id	int	No	MUL	NULL	