MINIPROJECT

TOPIC: Food Delivery in Railway Platform

INTRODUCTION

The objective of this project is to develop an efficient and user-friendly food delivery system specifically designed for railway platforms, enabling passengers to conveniently order food from a variety of restaurants and have it delivered directly to their train or platform location. This system aims to enhance the travel experience by providing a convenient, efficient, and reliable service that caters to the unique needs of travelers, ensuring they enjoy quality food without delays or complications during their journey.

OBJECTIVE

The objective of our online food ordering system is to enhance the travel experience for train passengers by providing a convenient and reliable way to access quality food during long journeys. This system aims to:

- Facilitate easy and quick online food ordering for passengers through a user-friendly web application.
- Ensure timely and accurate delivery of food to passengers at designated train stations through a dedicated network of delivery personnel.
- Maintain high standards of food quality and hygiene throughout the ordering, preparation, and delivery process.
- Improve overall customer satisfaction and comfort during train travel by addressing the challenge of accessing good quality food

EXISTING SYSTEM

An existing system for railway food delivery offers passengers the ability to order meals from various restaurants to be delivered directly to their train. However, this system has several drawbacks, including a limited selection of restaurant options, which can restrict users' dining choices. Additionally, delivery times can be inconsistent, leading to delays, especially during peak travel periods. The ordering process may not be user-friendly for all passengers, particularly those who are not tech-savvy, making it inconvenient for some to navigate. Furthermore, the service is often restricted to specific routes or stations, limiting accessibility for travelers on less-frequented lines. Lastly, customers frequently encounter difficulties when trying to reach support for assistance with order issues, leading to increased frustration and dissatisfaction.

Limitations of existing system

- Limited Restaurant Selection
- Inconsistent Delivery Times
- User Interface Challenges
- Customer Support Issues
- Feedback and Complaint Management

PROPOSED SYSTEM

Our project differentiates itself from existing railway food delivery systems by addressing key limitations and enhancing user experience through several innovative features. Firstly, we offer a wider selection of restaurants and food options, ensuring passengers have access to a diverse range of cuisines. Secondly, our system guarantees consistent and reliable delivery times, making use of advanced tracking and coordination to minimize delays. The user interface is designed to be simple and user-friendly, catering to all passengers, including those less familiar with technology. Additionally, our service covers a broader range of routes and stations, ensuring complete access for all travelers. Furthermore, we provide strong customer support, ensuring that users can easily resolve any issues or inquiries, leading to higher satisfaction and trust in our service.

Advantages of proposed system

- Wide Restaurant Selection
- Consistent Delivery Times
- User-Friendly Interface
- Strong Customer Support
- Efficient Feedback and Complaint Management
- Personalized Experience

MODULE DESCRIPTION

1. ADMIN

Admin has to log in by using their unique username and password. Only the admin has authorization to access this module for security reasons, preventing other users from gaining access. Admin can perform the following tasks:

- Manage User Accounts
- Register New User
- Approve/Reject Restaurant Application
- Add/Update/Delete Station Details
- Add/Update/Delete Platform Details
- Add/Update/Delete District Details
- View Complaints
- View Feedbacks
- Manage Categories

2. USER

The User Module manages all user interactions with the system, including registration, login, profile management, and ordering food. Users have to log in by using their unique username and password. Users can perform the following tasks:

- Register and Login
- Browse Food Items
- Add to Cart
- Place Orders
- View Order History
- Provide Feedback
- Lodge Complaints

3. RESTAURANT

The Restaurant Module allows restaurant owners to manage their menus, receive orders, and handle feedback. Restaurant owners have to log in by using their unique username and password. Restaurant owners can perform the following tasks:

- Register Restaurant
- Manage Menu
- Manage Orders
- View Feedback
- Respond to Complaint
- Manage Profile

TABLE DESIGN

1. **tbl_admin**
   Primary Key: admin_id
   Description: Designed to store information about admin

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	admin_id	INT	11	Unique ID of Admin
2.	admin_name	VARCHAR	30	Name of Admin
3.	admin_email	VARCHAR	30	Email ID of Admin
4.	admin_password	VARCHAR	30	Password of Admin

2. **tbl_user**
   Primary Key: user_id
   Foreign Key: NIL
   Description: Designed to store essential information about users of the food delivery system

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	user_id	INT	11	Unique ID of User
2.	user_name	VARCHAR	30	Name of User
3.	user_contact	INT	11	Contact of User
4.	user_email	VARCHAR	30	Email of User
5.	user_password	VARCHAR	30	Password of User
6.	user_photo	VARCHAR	30	Photo of User

3. **tbl_district**
   Primary Key: district_id
   Description: Designed to store information about various districts and to facilitate location-based services.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	district_id	INT	11	Unique ID of District
2.	district_name	VARCHAR	30	Name of District

4. **tbl_place**
   Primary Key: place_id
   Foreign Key: district_id
   Description: Designed to store information about various geographical locations.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	place_id	INT	11	Unique ID of Place
2.	place_name	VARCHAR	30	Name of Place
3.	district_id	INT	11	Unique ID of District

5. **tbl_rest**
   Primary Key: **rest_id**
   Foreign Key: place_id
   Description: Designed to store comprehensive information about restaurants

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	rest_id	INT	11	Unique ID of Restaurant
2.	rest_name	VARCHAR	30	Restaurant Name
3.	rest_email	VARCHAR	30	Email of Restaurant
4.	rest_contact	INT	11	Contact Number
5.	rest_address	VARCHAR	255	Address of Restaurant
6.	rest_photo	VARCHAR	30	Restaurant Photo
7.	rest_proof	VARCHAR	50	Proof of Restaurant
8.	place_id	INT	11	Unique ID of Place
9.	rest_status	VARCHAR	30	For Verification

6. **tbl_category**
   Primary Key: category_id
   Description: Designed to organize and manage various food categories within the system

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	category_id	INT	11	Unique ID of Category
2.	category_name	VARCHAR	30	Name of Category

7. **tbl_food**
   Primary Key: **food_id**
   Foreign Key: category_id, rest_id
   Description: Designed to store information about various food items offered by restaurants.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	food_id	INT	11	Unique ID of Food
2.	food_name	VARCHAR	30	Name of Food
3.	food_price	INT	11	Price of Food
4.	food_photo	VARCHAR	30	Photo of Food
5.	category_id	INT	11	Unique ID of Category
6.	rest_id	INT	11	Unique ID of Restaurant
7.	food_desc	VARCHAR	100	Contents of Food

8. **tbl_cart**
   Primary Key: cart_id
   Foreign Key: food_id
   Description: Designed to store manage and store the items that users have selected to purchase before placing an order.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	cart_id	INT	11	Unique ID of Cart
2.	cart_qty	INT	11	Quantity of Ordered Food
3.	food_id	INT	11	Unique ID of Food
4.	cart_status	VARCHAR	50	Status of Cart

9. **tbl_station**
   Primary Key: station_id
   Foreign Key: place_id
   Description: Designed to store information about various stations

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	station_id	INT	11	Unique ID of Station
2.	station_name	VARCHAR	30	Name of Station
3.	Station_address	VARCHAR	255	Station Address
4.	place_id	INT	11	Unique ID of Place

10. **tbl_platform**

Primary Key: platform_id

Description: Designed to store information about various platforms in a station

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	platform_id	INT	11	Unique ID of Platform
2.	platform_no	INT	11	Platform No of a Station

11. **tbl_station_platform**

Primary Key: station_platform_id

Foreign Key: station_id

Description: Designed to store information about various geographical locations.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	station_platform_id	INT	11	Unique ID of Station Platform
2.	station_platform_no	INT	11	Number of Station Platform
3.	station_id	INT	11	Unique ID of Station

12. **tbl_booking**

Primary Key: booking_id

Foreign Key: user_id, platform_id

Description: Designed to store feedback about the restaurant by the customers

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	booking_id	INT	11	Unique ID of Booking
2.	booking_status	VARCHAR	50	Status of Booking
3.	booking_ amount	VARCHAR	10	Total Amount for Booking
4.	booking_on_date	DATE	_	Date of Booking
5.	discount_amount	VARCHAR	10	Discount Amount for Booking
6.	user_id	INT	11	Unique ID of User
7.	platform_id	INT	11	Unique ID of Platform
8.	booking_to_date	DATETIME	_	Reservation Date

13. **tbl_rating**

Primary Key: rating_id

Foreign Key: user_id, food_id

Description: Designed to store feedback about the restaurant by the customers

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	rating_id	INT	11	Unique ID of Rating
2.	rating_content	VARCHAR	100	Content of Rating
3.	rating_count	INT	11	No of Ratings
4.	rating_date	DATE	_	Date of Issuing Rating
5.	user_id	INT	11	Unique ID of User
6.	food_id	INT	11	Unique ID of Food

14. **tbl_complaint**

Primary key: **complaint_id**

Foreign key: user_id, rest_id, cart_id

Description: Designed to store information about issues reported by users against the website.

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	complaint_id	INT	11	Unique ID Complaint
2.	complaint_content	VARCHAR	255	Contains the Complaint
3.	complaint_date	DATE	_	Date of Issuing Complaint
4.	complaint_reply	VARCHAR	255	Used to Store Replies
5.	complaint_status	VARCHAR	50	About Complaint Status
6.	rest_id	INT	11	Unique ID of Restaurant
7.	user_id	INT	11	Unique ID of User
8.	cart_id	INT	11	Unique ID of Cart

15. **tbl_feedback**

Primary Key: feedback_id

Foreign Key: user_id, cart_id

Description: Designed to store feedback about the restaurant by the customers

SL No	NAME	DATA TYPE	SIZE	DESCRIPTION
1.	feedback_id	INT	11	Unique ID of Hotel Feedback
2.	feedback_content	VARCHAR	255	Contains the Feeback
3.	feedback_date	DATE	_	Date of Issuing Feedback
4.	user_id	INT	11	Unique ID of User
5.	cart_id	INT	11	Unique ID of Cart