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Online Railway Pantry Management System

¹ Sowbarnika R, ² Gomathy K

¹Student, ²Assistant Professor, Department of Computer Applications, Dr. N.G.P Arts and Science College ¹ <u>sowbarnikaramachandran25@gmail.com</u> ² <u>gomathyk@drngpasc.ac.in</u> DOI : <u>https://doi.org/10.55248/gengpi.6.0425.1302</u>

ABSTRACT

Online Railway Pantry Management System that enables fast food delivery for the customers who travels in the trains. It overcomes the disadvantages of manual Online Railway Catering Management System. Our proposed system is a medium to order online food hassle free from restaurants for the passengers who travel from train. The food system improves the method of taking the order from customer. This system will set up a food menu which will be available online and passenger can easily place the order as per their wish. Based on this, customers can easily track the orders.

Online Railway Pantry Management System reduces the manual information gathering time and increase the accuracy of information. It provides up to date information instantly and enhance reputation of your cold storage among customers. It also reduces messy transactions and paperwork.

Keywords : Dashboard, Order, User, Cart

INTRODUCTION

The Online Railway Pantry Management System is an efficient and user-friendly platform designed to streamline food ordering for passengers traveling by train. This system allows passengers to browse and select food items from an online menu, view detailed information about each dish, and add them to their cart with a simple click. The system ensures a seamless user experience, with an option for passengers to customize the quantity of the food items they wish to order. Additionally, it provides an easy-to-navigate interface with dynamicContent segmentation, allowing users to quickly browse through available options. With integrated session management, the system ensures that users can track their orders and reorder their favorite meals. The admin panel allows the operators to manage food items, update the menu, and process orders efficiently, improving the overall catering operation in the railway industry.

DATAFLOW DIGRAM



USE CASE DIAGRAM

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.

Use case diagram can be useful for getting an overall view of the system and clarifying who can do and more importantly what they can't do.

Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor could be the end-user of the system or an external system.

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

Admin Use Case Diagram:



User Use Case Diagram :



METHODOLOGY

The proposed system is about Railway Pantry Management System. It mainly consists of user module and admin module.

ADMIN MODULE:

DASHBOARD

The Dashboard section provides a quick and clear overview of the platform's status, showing key metrics like the total number of orders, unconfirmed and confirmed orders, the amount of food being prepared, ready for pickup, or delivered, as well as canceled orders and the total number of registered users. This helps the admin track ongoing activities in real-time, ensuring smooth operations.

| | Online Railway Catering Management System!! | | | | | |
|--------------------|---|-----------------------|----------------------|--|--|--|
| Admin - | TOTAL ORDER | NEW ORDER | CONFIRMED ORDER | | | |
| III Dashboard | 7 Total order | O New Order | 2 Canfirmed Order | | | |
| 嶜 Reg Users | | | | | | |
| ☑ Food Category < | FOOD BEING PREPARED | FOOD PICKUP | TOTAL FOOD DELIVER | | | |
| Gి Food Menu | 1 | 0 | 2 | | | |
| I Orders < | Food being Prepared | Food Pickup | Total Food Deliver | | | |
| 🖺 Reports 🛛 < | | | | | | |
| Q Search | CANCELLED ORDER | TOTAL REGD. USER | | | | |
| | 2 Cancelled Order | 7 Total Regd. User | | | | |
| | | | | | | |

REG USERS

In the Reg Users section, the admin has the ability to view and update details of registered users, such as their contact information and account status. The admin can also deactivate or modify user accounts if necessary, ensuring that user management remains efficient and up-to-date.

| 0 | | Online Railway Catering Management System!! | | | | | | P 🕞 Log ou |
|-----------------|---|---|------------|-----------|---------------|--------------------|-------------------------|------------|
| Admin 🗸 | | | | | Us | ser Details | | |
| Dashboard | | S.NO | First Name | Last Name | Mobile Number | Email | Action | |
| 嶜 Reg Users | | 1 | Anuj | Kumar | 1234567890 | test@gmail.com | Edit User Detail Orders | |
| Food Category | < | 2 | Test | User | 1236547890 | testuser@gmail.com | Edit User Detail Orders | |
| ở Food Menu | < | 3 | Mahesh | Singh | 8686876876 | mah@gmail.com | Edit User Detail Orders | |
| ■ Orders | < | 4 | Kinjal | Singh | 7797987987 | kinjal@gmail.com | Edit User Detail Orders | |
| Reports | < | 5 | John | Doe | 1425632541 | john@test.com | Edit User Detail Orders | |
| | | 6 | lakesh | S | 9344315088 | lakesh@gmail.com | Edit User Detail Orders | |
| | | 7 | harsha | m | 9856458967 | harsha@gmail.com | Edit User Detail Orders | |
| | | | | | Pr | revious 1 Next | | |

FOOD CATEGORY

The Food Category section allows the admin to manage different categories of food on the platform. The admin can add new categories, update existing ones, or remove categories as needed, ensuring the menu is well-organized and user-friendly for customers browsing the available options.

| 8 | | _ | | | | |
|-------------|------------|------|------------------|---------------------|---------------|--|
| Sdmin - | | S.NO | Category Name | Creation Date | Action | |
| Dashboard | | 1 | Itallian | 2023-04-17 00:00:00 | Edit Delete | |
| 🖬 Reg Users | | 2 | Thai | 2023-04-17 00:00:00 | Edit Dolete | |
| | i i | 3 | South Indian | 2023-04-17 00:00:00 | Edit Delete | |
| | | 4 | North Indian | 2023-04-17 00:00:00 | Edit Delete | |
| Orders | <i>4</i> 0 | 5 | Desserts | 2023-04-17 00:00:00 | Edit | |
| Reports | < | 6 | Starters | 2023-04-17 00:00:00 | Edit Delete | |
| | | 7 | Chinease | 2023-04-17 00:00:00 | Edit Delete | |
| | | 8 | Continental Food | 2023-04-17 18:52:45 | Edit Delete | |

ORDERS

The Orders section provides a comprehensive view of all customer orders. Admins can track the status of each order, from being prepared to ready for pickup or delivery, and have the authority to update the order status to reflect the latest progress, ensuring that orders are efficiently managed.

| • | | Online Railway Catering Management System!! | | | | | |
|---------------|----|---|--------------|---------------------|---------------------|--------------|--|
| Admin - | ς, | | | Detail of A | All Order Received | | |
| III Dashboard | | S.NO | Order Number | Order Date | Status | Action | |
| 👹 Reg Users | | 1 | 406738481 | 2023-04-20 11:14:02 | Food Delivered | View Details | |
| | × | 2 | 846328328 | 2023-04-20 11:15:40 | Order Cancelled | View Details | |
| | * | 3 | 217126320 | 2023-04-20 11:19:11 | Order Cancelled | View Details | |
| Orders | ¢ | 4 | 514273677 | 2023-04-30 19:00:53 | Order Confirmed | View Details | |
| Reports | < | 5 | 107201891 | 2023-05-01 12:13:43 | Food Delivered | View Details | |
| | | 6 | 245420632 | 2025-03-12 09:59:48 | Order Confirmed | View Details | |
| | | 7 | 475853852 | 2025-03-18 11:56:48 | Food being Prepared | View Details | |
| | | | | Pre | vious 1 Next | | |

REPORTS

In the Reports section, the admin can generate and view detailed reports regarding order counts, sales, and other business metrics. Reports can be filtered by dates, helping the admin analyze trends, measure business performance, and make informed decisions based on historical data.

| | | | Online Railway Catering Management System!! | 🔎 🕞 Log out |
|--------------------|---|-----------------------|--|-------------|
| Admin - | | | | |
| | | Between Dates Reports | | _ |
| Dashboard | | From Date | 01-03-2025 | |
| 🗑 Reg Users | | To Date | 15-03-2025 | = |
| Food Category | < | Request Type | ®All ONot Confirmed Order OCanciled Order OConfirmed Order OFood Being Prepared Order OFood Pickup Order OFood Delivered order | |
| 🎯 Food Menu | ¢ | | Submit | |
| Orders | < | | | |
| 🖺 Reports | < | | | |
| Q Search | | | | |

USER MODULE:

FOOD MENU

In the Food Menu section, users can explore the full range of food items available at the restaurant. The menu displays a list of dishes, including descriptions, prices, and sometimes images, allowing users to make informed decisions about what to order based on their preferences.



MY ACCOUNTS

The My Accounts section gives users control over their personal profile and account settings. Users can view and update their personal details, change their password for added security, and manage their login credentials, ensuring their information is accurate and secure. They can also log out from their account when finished.



MY ORDERS

In the My Orders section, users can view their past order history, including details such as order status, items purchased, and delivery or pickup information. This section helps users keep track of their previous purchases and easily reorder their favorite items for convenience.



CART

The Cart section allows users to add food items they wish to order. Users can select multiple items, review their selections before checkout, and modify the cart by adding or removing items. This feature ensures a smooth and organized ordering process, allowing users to finalize their orders with ease.

Additionally, users have the option to **download their invoice** for past orders, providing a convenient way to keep track of their expenses. If needed, they can also cancel an order directly through the platform, offering flexibility if there are any changes or issues before the order is processed.

CONCLUSION

In summary, technological advancements have driven the adoption of management systems in the F&B industry to enhance efficiency. Our proposed system integrates a mobile-based Online Railway Pantry Management System with a computer-based Restaurant Management System, allowing users to order via smartphones/tablets while restaurants manage operations on a computer. This enhances productivity, reduces manpower costs, and improves profitability.

FUTURE ENHANCEMENT

Future enhancements could include integrating real-time order tracking, personalized meal recommendations, and multi-language support for diverse passengers. Additionally, incorporating AI for predictive demand forecasting and expanding payment options like digital wallets or contactless payments can further streamline the system. A mobile app version could also be developed for greater accessibility. Finally, integrating feedback systems to continuously improve service quality would enhance the overall passenger experience.

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