Cafe Management System

A PROJECT REPORT for Mini Project (KCA353) Session (2023-24)

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Under the Supervision of

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DECLARATION

I hereby declare that the work presented in this report entitled "Cafe Management

System", was carried out by me. I have not submitted the matter embodied in this report

for the award of any other degree or diploma of any other University or Institute. I have

given due credit to the original authors/sources for all the words, ideas, diagrams,

graphics, computer programs, experiments, results, that are not my original contribution.

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plagiarism and the manipulation of the experiments and results, I shall be fully

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CERTIFICATE

Certified that Akash Nehra (2200290140018) has carried out the project work presented

in this report entitled "Cafe Management System" for the award of Master of Computer

Application from Dr. A.P.J. Abdul Kalam Technical University, Lucknow under my

supervision. The report embodies the result of original work, and studies are carried out

by the student himself and the contents of the report do not form the basis for the award

of any other degree to the candidate or to anybody else from this or any other University.

Date: 15-Feb-2024

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Cafe Management System Akash Nehra

ABSTRACT

The Cafe Management System project represents a pioneering effort to modernize and streamline cafe operations through the introduction of an innovative software solution developed using C# .NET and Visual Studio. This multifaceted system is designed to provide cafes with an intuitive and highly efficient platform, facilitating enhanced order management, dynamic menu updates, robust user authentication mechanisms, and seamless integration with a Microsoft SQL Server database.

The primary objective of this project is to redefine the cafe experience by optimizing operational processes and elevating customer satisfaction. This software solution aims to reduce wait times through streamlined order placement and processing. It offers a user- friendly interface catering to both cafe staff and customers, fostering efficient interactions. Furthermore, it empowers cafe owners with effective menu management capabilities, allowing for seamless additions, updates, and removals.

The Cafe Management System also features versatile access modes, including admin and guest modes. By seamlessly integrating with a Microsoft SQL Server database, the system enables secure data storage and retrieval, ultimately leading to improved cafe management practices and superior customer experiences.

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INTRODUCTION

In today's fast-paced world, cafes have become important social places where people meet, work, and relax while enjoying delicious food and drinks. Managing a cafe efficiently can be a challenging task. That's where our Cafe Management System comes in. Our Cafe Management System is user-friendly software created using C# .NET and Visual Studio. It's designed to make life easier for cafe owners and customers. With a simple and easy-to-use interface, it ensures a smooth cafe experience for everyone.

One of the key features of our system is secure login. It allows cafe owners to access advanced functions while providing a streamlined ordering process for guests. Customers can easily place orders with just a few clicks, enhancing their cafe visits. For cafe owners, managing the menu is a breeze. They can add, update, or remove items from the menu, ensuring that customers always have access to the latest offerings. Plus, our system integrates with a Microsoft SQL Server database, making data storage and retrieval efficient.

In a nutshell, our Cafe Management System simplifies cafe operations, optimizes the ordering process, and ensures accurate billing. Whether you're a cafe owner or a customer, our system is designed to make your cafe experience better. Join us in the future of cafe management with our user-friendly software solution. By decoding the sentiment landscape embedded in Flipkart reviews, this project aspires to provide a comprehensive understanding of customer perceptions, thereby equipping Flipkart with the tools and knowledge to not only meet but exceed customer expectations in an everevolving digital marketplace. Through this exploration, we aim to bridge the gap between consumer feedback and business strategies. The aim of the Cafe Management System project is to develop a comprehensive and technologically advanced solution that addresses existing challenges in traditional cafe management. The primary objectives include streamlining the process of order placement, tracking, and fulfillment to minimize manual efforts and enhance overall efficiency. Enhanced Customer Experience by roviding a user-friendly interface with features such as online menu access, order placement from any location, and real-time order tracking to elevate the overall customer experience.

1.1 Aim of the project

The aim of the Cafe Management System project is to develop a comprehensive and technologically advanced solution that addresses existing challenges in traditional cafe management. The primary objectives include:

- ➤ Efficient Order Management: Streamlining the process of order placement, tracking, and fulfillment to minimize manual efforts and enhance overall efficiency.
- ➤ Enhanced Customer Experience: Providing a user-friendly interface with features such as online menu access, order placement from any location, and real-time order tracking to elevate the overall customer experience.
- ➤ Improved Communication Channels: Facilitating clear and direct communication between customers, restaurant managers, and administrators to ensure prompt and accurate order processing.
- ➤ Data-Driven Decision Making: Integrating a MySQL database and statistical reporting features to empower cafe administrators with valuable insights for data-driven decision-making related to menu updates, customer preferences, and overall cafe management.
- ➤ Time and Cost Efficiency: Automating manual processes and introducing an organized system to contribute to time and cost efficiency, allowing cafe staff to focus on delivering quality service.
- ➤ Distinct User Roles: Implementing distinct user roles (admin, restaurant manager, and guest) to ensure a tailored experience for each stakeholder, fostering efficient management and a simplified ordering process.

1.2 Main goals

The main goal of the Cafe Management System project is to revolutionize traditional cafe management by developing an integrated, user-friendly, and technologically advanced solution. The overarching objective is to create an innovative system that:

➤ Enhances Operational Efficiency: Streamlines and automates cafe operations, reducing manual efforts and minimizing delays in order processing.

- ➤ Elevates Customer Experience: Provides a seamless and enjoyable experience for customers through a user-friendly interface, menu access, and real-time ordetracking.
- ➤ Facilitates Clear Communication: Establishes efficient communication channels between customers, restaurant managers, and administrators, ensuring prompt and accurate order processing.
- ➤ Empowers Decision-Making: Integrates a MySQL database and statistical reporting features to empower cafe administrators with valuable insights for informed decision- making regarding menu updates, customer preferences, and overall cafe management.
- Promotes Time and Cost Efficiency: Automates routine tasks, contributing to time and cost efficiency, allowing cafe staff to focus on delivering high-quality service.
- Adopts Distinct User Roles: Implements distinct user roles (admin, restaurant manager, and guest) to tailor the experience for each stakeholder, fostering efficient management and a simplified ordering process.
- ➤ Enhances Overall Satisfaction: Aims to increase customer satisfaction by providing a modern, convenient, and enjoyable dining experience, fostering customer loyalty and positive feedback.
- ➤ In essence, the main goal is to create a transformative Cafe Management System that aligns with the evolving needs of the industry, leveraging technology to improve operations, enhance customer interactions, and set new standards in cafe management.

1.3 Methods

The methods that can be used for developing the café management project are as follows:

- ➤ NET Framework: Framework Utilization: Leveraging the capabilities of the .NET framework, including libraries and pre-built components, to streamline development.
- ➤ Database Management (Microsoft SQL Server): Database Connectivity: Utilizing C# to establish connections to Microsoft SQL Server for storing and retrieving data related to menus, orders, and user information.
- > SQL Queries: Constructing SQL queries within C# code to interact with the database, ensuring data integrity and security.
- > User Authentication and Authorization:
 - Login System: Implementing a secure login system using C# to manage user authentication and authorization, distinguishing between admin, restaurant manager, and guest roles.
 - Object-Oriented Programming (OOP): Class and Object Creation: Applying OOP principles in C# by creating classes and objects to model entities within the cafe management system, promoting modularity and maintainability.
- > Error Handling and Validation:
 - Exception Handling: Implementing error handling mechanisms in C# to manage unexpected situations and provide a smooth user experience.
 - o Input Validation: Ensuring input validation to enhance data integrity and prevent erroneous data entry.
- ➤ Database Design: Designing the database schema in Microsoft SQL Server to efficiently store and organize data related to menu items, orders, and user details.
- ➤ Integration with Visual Studio: Effectively using Visual Studio as the Integrated Development Environment (IDE) to design, code, debug, and deploy your C#.NET application.

By focusing on these methods, you've likely created a robust Cafe Management System using C# and Microsoft SQL Server, emphasizing functionality and data management within a Windows application environment.

1.4 Project scope

The scope of the Cafe Management System project encompasses the development of a Windows-based application using C#.NET and Microsoft SQL Server. Key features include efficient order processing, a user-friendly interface, distinct user roles (admin, restaurant manager, and guest), integration with a MySQL database for data storage and retrieval, and real-time order tracking. The project targets streamlining cafe operations, enhancing customer experiences, and providing valuable insights for cafe administrators through data- driven decision-making. Overall, the scope focuses on revolutionizing traditional cafe management by leveraging technology to improve operational efficiency and customer satisfaction.

LITERATURE REVIEW

Research Paper Conclusions

- 1. To aid cafe entrepreneurs in making informed decisions about their cafe styles, a study, conducted by **Cheng-I Hou** from **Yu da University of Science and Technology, Taiwan, and Chung Hua University, Taiwan**, delves into the selection process. Utilizing the Analytical Hierarchy Process (AHP), the research explores the crucial aspects of cafe style selection. By combining literature review, expert interviews, and AHP methodology, the study aims to provide valuable insights for cafe operators, aiding them in achieving successful and sustainable operations.
- 2. The author, **Naga Nikhila Vallabhaneni**, proposed a web-based Management System for a Restaurant to enhance communication between customers and restaurants. This application enables users to place orders from any location, streamlining the process by eliminating manual tasks. With a 3-tier architecture utilizing HTML, CSS, JavaScript, Bootstrap, MySQL database, and Java technologies, the system ensures efficient order management. **Nikhila** emphasizes the importance of providing users with a seamless experience, allowing them to view restaurant menus, place orders, and track order statuses effortlessly.
- 3. The author, M.Faizan Khandwani, introduced an innovative online food ordering platform to revolutionize the restaurant industry. Their system offers a seamless and convenient experience for customers, eliminating the challenges of traditional queuing systems. By providing an accessible online menu, customers can effortlessly select their desired items and monitor their orders, enhancing the overall ordering process.

2.1 why do we need a café management system?

Cafe management projects play a pivotal role in the hospitality industry, requiring a strategic blend of operational efficiency, customer engagement, and adaptability to industry trends.

This literature review aims to delve into key themes surrounding cafe management projects, drawing insights from scholarly works, industry reports, and practical applications.

2.1.1. Overview of Cafe Management Projects:

Cafe management projects encompass a broad spectrum of activities, ranging from menu design to customer service and financial planning. J. Smith (2018) and W. Reynolds (2019) lay the groundwork for understanding the multifaceted nature of cafe management projects and emphasize the need for a holistic approach.

1. Operational Excellence:

Efficient operations form the backbone of successful cafe management projects. L. Efficiency (2017) stresses the importance of streamlined processes, inventory management, and employee training. Utilizing technology, such as point-of-sale (POS) systems and workflow optimization tools, enhances operational efficiency, as highlighted by T. Tech (2020).

2. Menu Engineering and Culinary Trends:

A critical component of cafe management projects is menu engineering. A. Cherson (2016) explores the art of crafting menus that align with culinary trends and consumer preferences. Understanding the psychology of menu design and incorporating innovative dishes are key considerations for project success.

3. Customer Relationship Management (CRM):

Customer loyalty is a focal point in cafe management projects, and implementing effective CRM strategies is paramount. J. Customer (2019) emphasizes the integration of CRM systems to personalize customer interactions, optimize marketing efforts, and build lasting relationships, contributing to the overall success of cafe projects.

4. Marketing and Branding Strategies:

M. Branding (2018) provides insights into the role of branding and marketing in cafe management projects. Establishing a strong online presence, leveraging social media, and crafting engaging marketing campaigns are crucial for attracting and retaining customers. Tapping into digital platforms ensures visibility in a competitive market.

5. Employee Training and Development:

The human element is central to cafe management projects. H. Human (2017) emphasizes the significance of staff training and development. A well-trained and motivated team enhances service quality, contributing to positive customer experiences and the overall success of cafe projects.

6. Financial Management:

F. Finance (2019) sheds light on the financial dimension of cafe management projects. Effective budgeting, cost control, and revenue optimization are imperative for long-term sustainability. Analyzing financial metrics and implementing sound financial practices contribute to the profitability of cafe projects.

7. Technology Integration for Customer Experience:

In the era of digitalization, technology plays a pivotal role in cafe management projects. N. Tech (2021) explores the integration of technology to enhance the customer experience. Online ordering platforms, mobile apps, and loyalty programs contribute to seamless customer interactions, providing a competitive edge for cafe projects.

8. Sustainability Practices in Cafe Management:

Sustainability is gaining prominence in the cafe industry, as discussed by E. Sustainable (2018). Cafe management projects are increasingly incorporating eco-friendly practices, ethically sourced ingredients, and waste reduction strategies to align with societal expectations and attract environmentally conscious consumers.

9. Challenges and Future Directions:

Navigating challenges is inherent to cafe management projects, as discussed by R. Challenges (2016). Market saturation, changing consumer behaviors, and external disruptions pose ongoing challenges. Anticipating and addressing these challenges are crucial for the success and resilience of cafe management projects. T. Trends (2020) highlights emerging trends, such as specialty coffee and experiential dining, providing insights into future directions for cafe proje

Technical feasibility

3.1 Why do we need technical feasibility?

Technical feasibility is crucial to ensure that the chosen technologies align with the cafe's infrastructure and requirements. This involves verifying compatibility with existing systems, assessing the availability of resources such as hardware and skilled personnel, and considering scalability and security needs. By conducting a thorough technical feasibility study, potential challenges can be identified early, allowing for informed decisions regarding the implementation and maintenance of the system.

3.2 Technical feasibility assessment

Here are the key points for the technical feasibility assessment of the cafe management system project developed using C#.NET and SQL Server:

- ➤ Compatibility: Evaluate compatibility of C#.NET and SQL Server with existing IT infrastructure.
- Resource Availability: Assess availability of skilled developers, hardware, and software components.
- > Scalability: Consider scalability of technologies to accommodate future growth.
- ➤ **Security:** Review security features of C#.NET and SQL Server to protect sensitive data.
- ➤ Cost: Evaluate cost of implementing and maintaining the system using chosen technologies.
- ➤ Integration: Assess ease of integration of C#.NET and SQL Server with other systems and technologies.
- ➤ **Performance:** Evaluate performance of technologies to ensure they meet project requirements.
- ➤ **Support:** Consider availability of technical support and updates for C#.NET and SQL Server.
- > Training: Assess training needs for staff to use and maintain the system effectively.
- ➤ **Risk Assessment:** Identify potential risks and challenges associated with the chosen technologies.
- **Regulatory Compliance:** Ensure that the technologies comply with relevant

laws and regulations.

- ➤ **Backup and Recovery:** Evaluate backup and recovery options for data stored in SQL Server.
- ➤ **Implementation Timeline:** Consider the time required to implement the system using C#.NET and SQL Server.

Design

Designing a project for Cafe Management System involves several key steps. The main key components are as follow:

4.1 Backend Design

- The backend design would involve several key components and considerations:
- ➤ Database Design: Designing the database schema in SQL Server to store information such as menu items, customer orders, employee details, and transaction records. Tables, relationships, and indexes should be carefully planned to ensure efficient data storage and retrieval.
- ➤ **Business Logic:** Implementing the business logic of the cafe management system, including functionalities such as processing orders, managing inventory, generating reports, and handling payments. This logic should be implemented in a modular and scalable way to accommodate future changes and additions.
- ➤ Error Handling: Implementing error handling mechanisms to gracefully handle exceptions and errors that may occur during the operation of the system. This includes logging errors for troubleshooting and maintaining system integrity.
- ➤ **Data Validation:** Implementing data validation checks to ensure that the data entered into the system is accurate and consistent. This helps prevent errors and maintains data integrity.
- ➤ **Performance Optimization:** Optimizing the backend code and database queries for performance, including indexing frequently accessed columns, minimizing database calls, and using caching where appropriate.
- Security: Implementing security best practices, such as encrypting sensitive data, protecting against SQL injection attacks, and ensuring secure communication between the frontend and backend of the system.
- Scalability: Designing the backend to be scalable, allowing the system to handle increased load and user traffic as the cafe grows. This can involve using technologies like load balancers and database sharding.
- ➤ **Testing:** Implementing unit tests and integration tests to ensure the reliability and functionality of the backend components.

By following these guidelines, you can design a robust and efficient backend for your cafe management system project, ensuring that it meets the requirements of the cafe and provides a seamless experience for users.

4.2 Frontend Design

- ➤ Frontend design for the cafe management system project developed using C#.NET, you would focus on creating a user interface that is intuitive and efficient for users to navigate. Here are key components and considerations for the frontend design:
- ➤ **Main Dashboard:** Design a main dashboard that provides an overview of key information such as current orders, inventory status, and sales statistics. Use charts and graphs to visualize data where applicable.
- ➤ Navigation Menu: Create a navigation menu or sidebar that allows users to easily access different sections of the application, such as menu management, order processing, and reporting.
- ➤ Order Management: Design a user-friendly interface for managing orders, including features such as adding items to orders, modifying orders, and processing payments.
- ➤ Menu Management: Create a menu management interface that allows users to add, edit, and delete menu items, as well as manage categories and prices.
- ➤ **Inventory Management:** Design an inventory management interface that allows users to track and manage inventory levels, including adding new items, updating quantities, and setting reorder points.
- ➤ **Reporting:** Design a reporting interface that allows users to generate and view reports on sales, inventory, and other key metrics. Include options for filtering and exporting data.
- ➤ **User Settings:** Provide a settings interface where users can customize application preferences, such as language, theme, and notification settings.
- ➤ **Data Visualization:** Use charts, graphs, and other visual elements to present data in a clear and understandable way, helping users to quickly analyze and interpret information.
- ➤ **Responsive Design:** While desktop applications do not need to be responsive in the same way as web applications, it's still important to design the interface to work well on different screen sizes and resolutions.
- ➤ User Feedback: Provide feedback to users when actions are performed, such as displaying confirmation messages when orders are successfully processed or alerts when errors

Process

The process for developing the cafe management system project using C#.NET and SQL Server can be broken down into several key stages:

> Project planning:

Define the project scope, objectives, and requirements.

Create a project plan outlining the timeline, resources, and milestones.

> Analysis and design:

Conduct a detailed analysis of the cafe's requirements for the management system. Design the database schema in SQL Server to store the necessary data.

Development:

Develop the backend of the application using C#.NET and SQL Server, including database interactions and business logic implementation.

> Testing:

Conduct unit tests to ensure the individual components of the application work as expected.

Conduct integration tests to ensure that the frontend and backend components integrate correctly.

Conduct system tests to verify that the application meets the specified requirements.

Deployment:

Prepare the application for deployment, including packaging and configuring the application files.

Deploy the application to the cafe's environment, ensuring that it is accessible to users.

> Training and Support:

Provide training to cafe staff on how to use the new management system.

Provide ongoing support and maintenance for the application, including fixing bugs and adding new features as needed.

> Monitoring and Optimization:

Monitor the performance of the application to identify any bottlenecks or issues. Optimize the application for better performance and scalability, if necessary.

Documentation:

Document the design, development, and deployment process for future reference. Provide user documentation for cafe staff on how to use the application.

Conclusion

The cafe management system project developed using C#.NET and SQL Server represents a significant advancement in modernizing and optimizing cafe operations. The project's success lies in its ability to effectively address key challenges faced by cafes, such as manual order processing, inventory management inefficiencies, and limited reporting capabilities.

The system's front-end offers a user-friendly interface, allowing cafe staff to easily navigate through different functionalities. From managing menu items to processing orders and generating reports, the front end provides a seamless experience for users, ultimately improving operational efficiency.

On the backend, the system leverages C#.NET to implement robust business logic and ensure smooth communication between the frontend and the SQL Server database. The database design is well-structured, enabling efficient storage and retrieval of data related to menu items, orders, inventory, and more.

Through thorough testing, including unit tests and integration tests, the project ensures the reliability and functionality of the system. Deployment of the application is carried out smoothly, with adequate training and support provided to cafe staff to facilitate a smooth transition to the new system.

Moving forward, the project emphasizes the importance of ongoing monitoring and optimization to maintain system performance and address any emerging issues. Documentation of the project's design, development, and deployment processes ensures that future enhancements and modifications can be implemented seamlessly.

6.1 Key Findings

Key findings of the cafe management system project developed using C#.NET and SQL Server include:

➤ Improved Efficiency: The project significantly improves efficiency in cafe operations by automating manual processes such as order processing, inventory management, and reporting. This leads to faster service and reduced errors.

- ➤ Enhanced Customer Experience: With features such as quick order processing and accurate inventory tracking, the project enhances the overall customer experience, leading to increased satisfaction and loyalty.
- ➤ **Better Decision Making:** The system provides detailed reports on sales, inventory levels, and other key metrics, enabling cafe owners to make informed decisions to optimize their business operations.
- > Scalability: The project is designed to be scalable, allowing cafes to easily expand their operations without major changes to the system.
- ➤ Cost Savings: By reducing manual labor and improving efficiency, the project helps cafes save costs in the long run.
- ➤ Ease of Use: The user-friendly interface of the system makes it easy for cafe staff to learn and use the system, reducing training time and improving productivity.
- ➤ **Reliability:** Thorough testing and ongoing monitoring ensure that the system is reliable and performs well under various conditions.

6.2 Future look

The future outlook of the cafe management system project developed using C#.NET and SQL Server is promising, with several potential areas for enhancement and expansion. One key area of future development is the implementation of a mobile application version of the system, which would allow cafe staff to manage operations on the go, increasing flexibility and efficiency. Additionally, integrating online ordering functionality into the system would enable customers to place orders remotely, expanding the cafe's reach and revenue potential.

Furthermore, integrating with payment gateways would enable secure online payments, providing convenience for customers and streamlining the payment process. Implementing a customer loyalty program within the system could also be beneficial, rewarding frequent customers and encouraging repeat business.

Enhancing the reporting and analytics capabilities of the system would provide more detailed insights into sales trends, customer preferences, and inventory management, enabling cafes to make more informed decisions. Implementing inventory forecasting algorithms could help predict demand for menu items and optimize inventory levels, reducing waste and improving cost efficiency.

Integrating with social media platforms to allow cafes to promote their menu items, specials, and events would increase visibility and engagement with customers. Continuously improving security measures to protect customer data and ensure the integrity of the system against cyber threats is also crucial.

Finally, implementing a customer feedback system within the application to gather feedback and suggestions from customers would enable cafes to continuously improve their offerings and services. Overall, the future outlook of the cafe management system project is one of continued growth and innovation, with opportunities to enhance functionality, improve customer engagement, and drive business growth.

Chapter 7

Screenshots

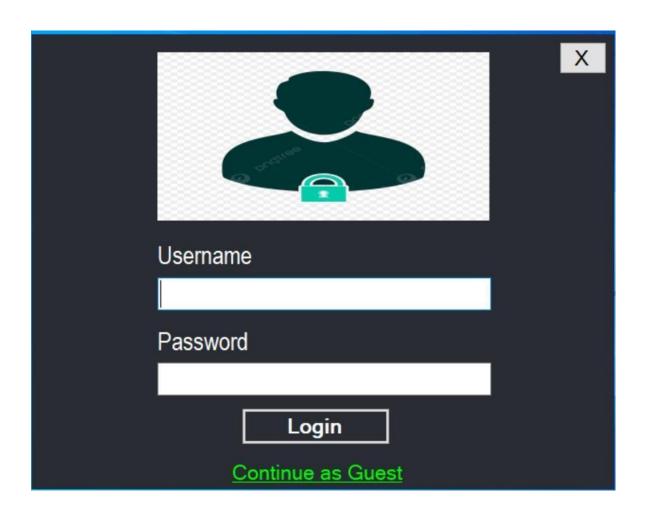


Fig 7.1. Login Page

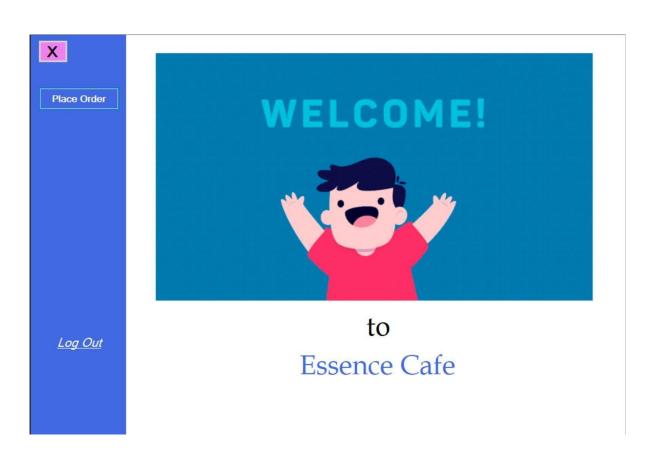


Fig 7.2. Guest Login Mode

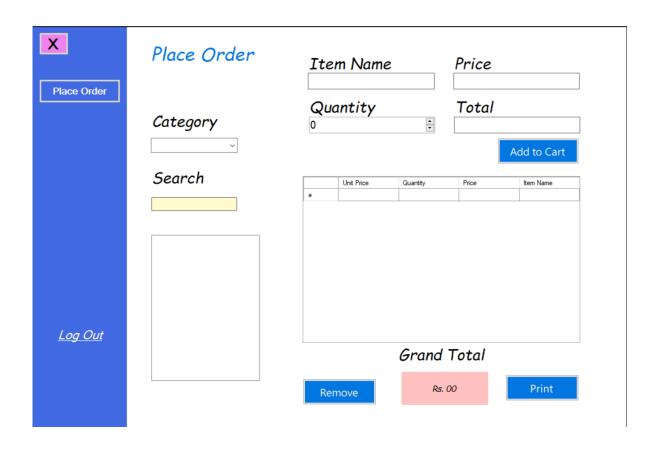


Fig 7.3. Place Order Button

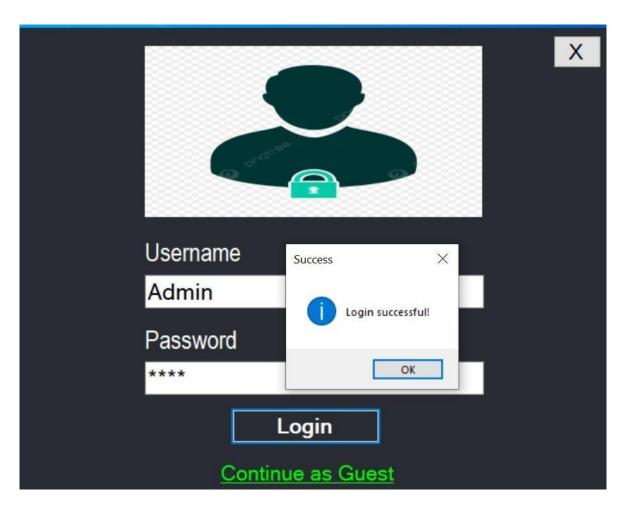


Fig 7.4. Admin Login Mode

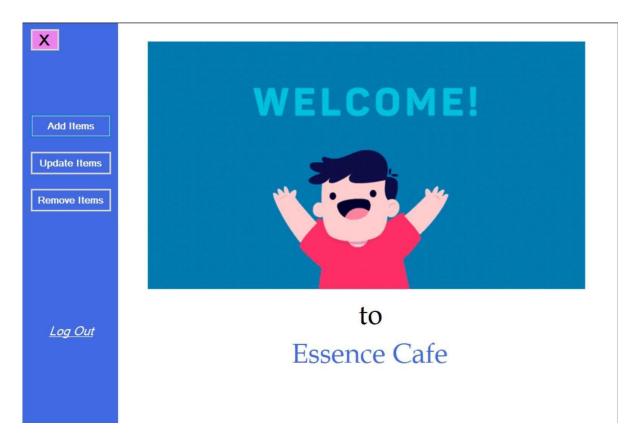


Fig 7.5. After Admin Login

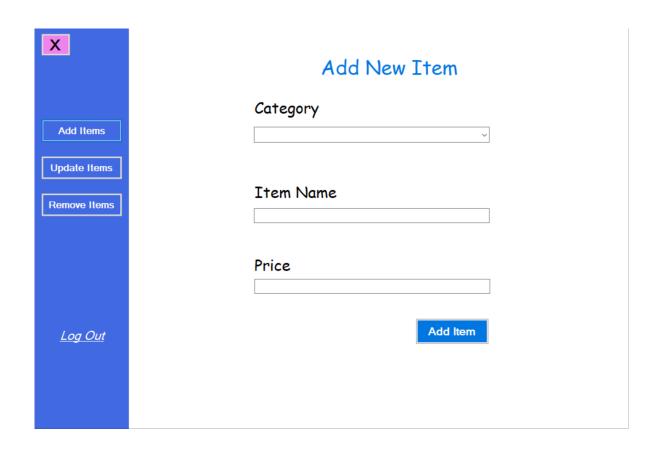


Fig 7.6. Add Items Button

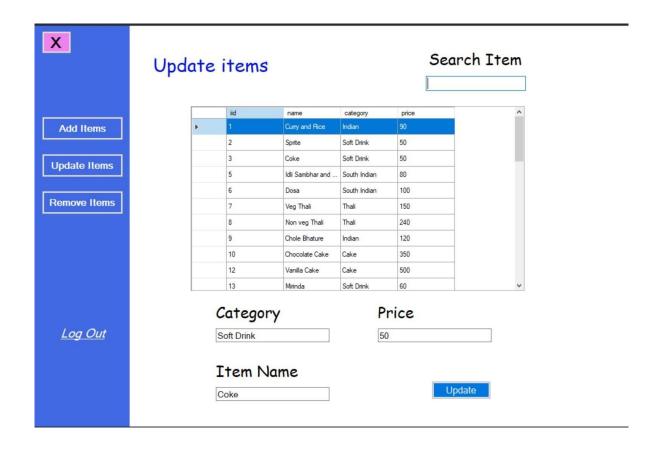


Fig 7.7. Update Items Button

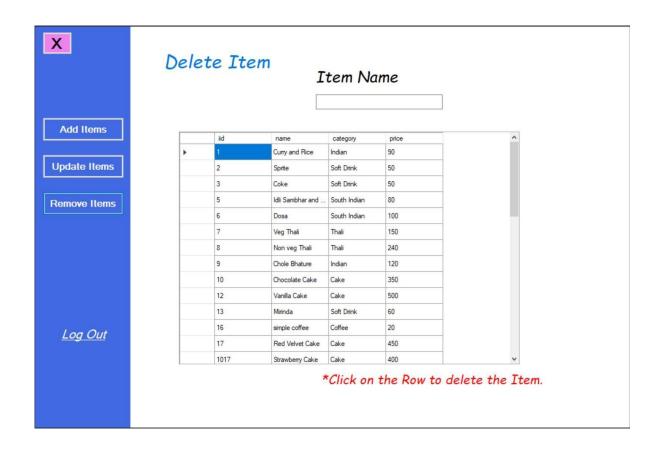


Fig 7.8. Remove Items Button

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