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Abstract— MealsOnWheelz is a single-vendor food ordering website designed for a local restaurant. This project aims to create an easy-to-use platform where customers can browse the restaurant's menu, place orders online, and track the status of their orders in real time. This website aims to provide a convenient and efficient solution for customers and the restaurant.

To build MealsOnWheelz, we used a client-server architecture with a backend database to store information about the menu, orders, and customers. The front end is designed to be user-friendly, allowing customers to quickly find and order their favorite dishes. The backend handles the processing of orders and ensures secure data management.

Keywords— Ordering system, Payments, Dynamic Rendering, Mern stack, Authentication, Ecommerce

I. INTRODUCTION

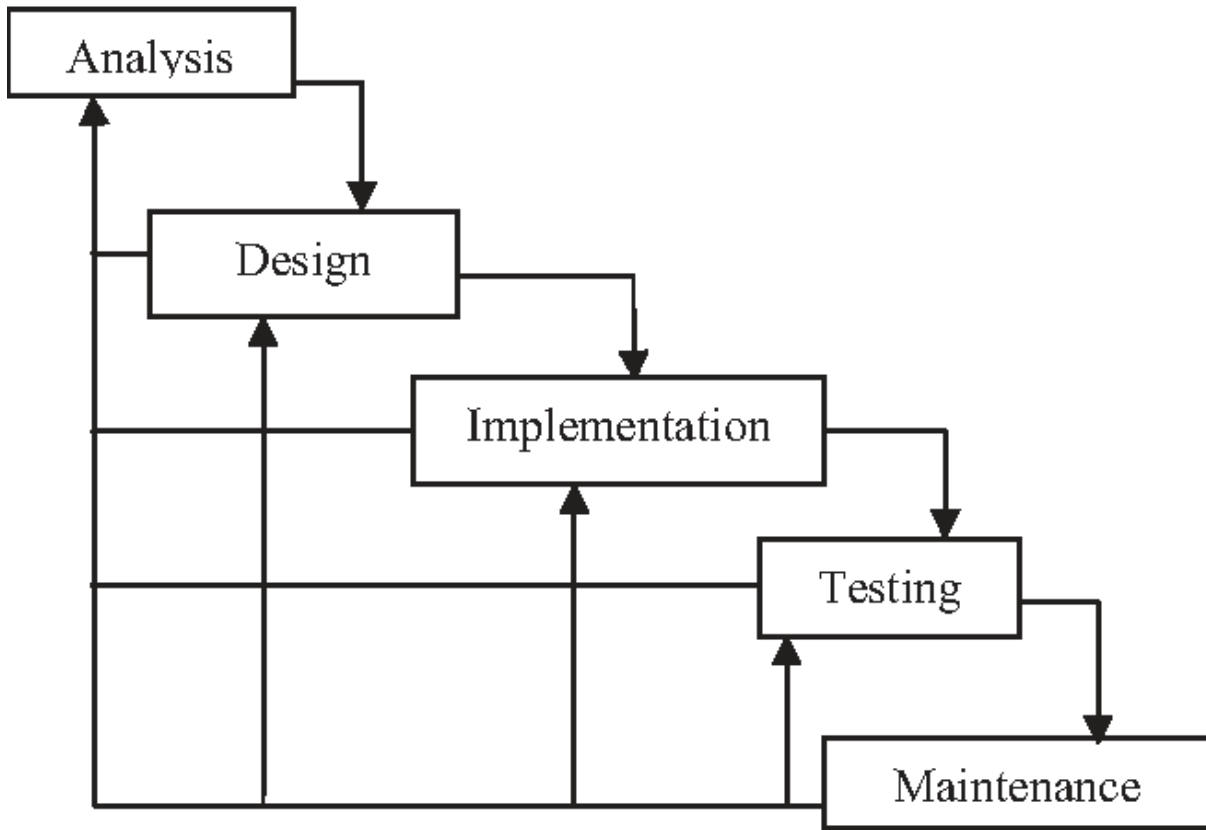
Digital technology has revolutionized various industries, and the food and beverage sector is not behind. With the increasing dependence on technology for convenience and efficiency, many restaurants and food establishments have turned to online platforms for greater customer experience and ease of operations. MealsOnWheelz is a web-based application designed to meet this need, offering a seamless and efficient solution for online food ordering from a single restaurant.

The primary objective of MealsOnWheelz is to provide customers with a user-friendly platform to browse the restaurant's menu, place orders, and track order status in real time. This aims to beat the gap between traditional restaurant services and modern digital expectations, allowing customers to enjoy a convenient, hassle-free food ordering experience from the comfort of their homes.

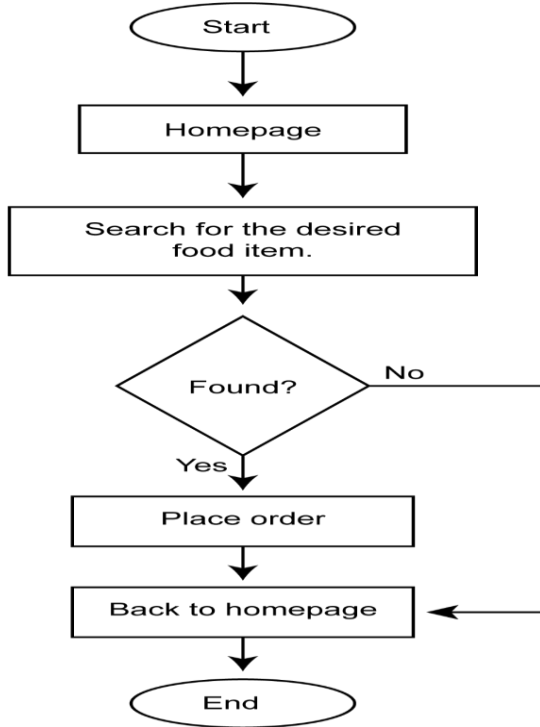
II. METHODOLOGY

The development of MealsOnWheelz, a single-vendor food ordering website for a restaurant, followed the iterative waterfall model. This approach provided a clear structure for the project while allowing for feedback loops to address changes and improvements during the development process. The iterative waterfall model consists of a series of phases executed in sequence, with the possibility of revisiting earlier phases based on feedback and testing results. This flexibility allows for more refinement compared to a traditional waterfall approach, while still maintaining a logical flow from concept to deployment.

III. PHASES OF ITERATIVE WATERFALL MODEL



IV. USER FLOW DIAGRAM





V. RESULT

The MealsOnWheelz project was designed to create an easy-to-use online platform for food ordering from a single restaurant. After development and testing, we found that the project met its objectives. Users could browse the menu, choose their favorite items, and place orders without any difficulty. The interface was straightforward, making it easy for customers to navigate through the website, even on their first visit. The backend system worked efficiently.

The website's responsive design ensured that it looked good and functioned properly across different devices, such as desktops, tablets, and smartphones. This flexibility was appreciated by users, who could place orders from their preferred devices, adding to the overall convenience.

User authentication and data encryption ensured that customer information was protected. The system showed stability during testing, with no major crashes or bugs. These results suggest that MealsOnWheelz is ready for real-world use, with a solid foundation for future improvements like multi-restaurant support and enhanced payment options. Overall, the project achieved its goals, providing a reliable and user-friendly platform for online food ordering.

VI. CONCLUSIONS

The MealsOnWheelz project represents a significant step forward in the development of a single-vendor food ordering website. Throughout the project's lifecycle, from design to implementation, the focus has been on creating a user-friendly platform that meets the needs of both customers and the restaurant. By offering a convenient way to order food online, track orders, and manage restaurant operations, MealsOnWheelz successfully addresses the demands of a modern food service business. The iterative waterfall model used in the development process provided the structure needed to ensure a thorough approach, allowing for iterative improvements and consistent quality.

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