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SWIFT DINE – FOOD WEBSITE

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1. INTRODUCTION:

In today's fast-paced world, technology plays a crucial role in enhancing various aspects of daily life, including food ordering and pickup services. College students, in particular, often face challenges related to time constraints and convenience when it comes to accessing quality meals on campus. Therefore, developing an efficient food ordering system specifically designed for food pickup can significantly improve the overall experience for these students.

So for that reason our solution for that problem is “Swift Dine” platform. The objective of "Swift Dine" is to revolutionize the dining experience by allowing users to pre- order their food from a wide selection of restaurants listed on the platform. By providing real- time updates, accurate preparation time estimates, and seamless communication with restaurants, Swift Dine aims to minimize waiting times and enhance convenience for users. The platform will enable users to enjoy their meals without the frustration of long waits, making dining out a more efficient and enjoyable experience.

Swift Dine is an innovative project aimed at revolutionizing the dining experience by reducing wait times at restaurants. Through our user-friendly platform, customers can pre-order their desired meals, and the restaurant starts cooking as soon as the order is received, saving valuable time. We provide a comprehensive restaurant listing with menus, allowing users to conveniently select their preferred options. Once an order is placed, users receive a time slot indicating when their food will be ready, enabling them to arrive at the restaurant precisely when their meal is prepared. Real-time updates and notifications keep users informed about their order's progress. By facilitating seamless communication between the app and restaurants, Swift Dine ensures accurate preparation time estimates and efficient food delivery. With the goal of optimizing restaurant capacity and enhancing the overall dining experience, we seek funding to bring this trans formative solution to the masses.

2. LITERATURE OF REVIEW:

(Vinaik, Goel, Sahai, & Garg, 2021) study reveals the food and service industry requires the preferences of the customers, to satisfy and identify their needs. According to the research, majority of the respondents were aware about the food apps and the most used apps are Zomato and Swiggy. The respondents considered various factors like delivery time, convenience and good customer service as the most important ones.

(Malhotra & Singh, 2020) The research helps find various strategies used by major food delivery companies to promote their business in India and the effect caused by online food delivery apps on restaurant business. According to the study, food ordering through apps is growing but still many new start-ups failed to survive in the competition and faced closure.

(Kumari, 2020) This study reveals that the relationship between online food service and the facilities provided and also the factors which influence the buying behaviour of customers. It concludes that as social media has a great influence on customers, it helps the online service providers advertise their products for greater reach to the masses.

(Lee, Sung, & Jeon, 2019) This study reveals that helps to identify the determinants of continuous use intention for food delivery software applications. The research findings stated that the users were influenced by peers, indicating that word of mouth marketing should be pursued by delivery platforms providers.

3. TECHNOLOGY FOR DEVELOPMENT THE WEB PORTAL:

The technology uses for development the web portal is

(a)EJS: EJS (Embedded JavaScript) is a templating language that enables dynamic content generation in web applications. It allows developers to embed JavaScript code directly into HTML templates, making it easier to create dynamic and interactive web pages. EJS supports features like conditional statements, loops, and template inheritance, making it a versatile tool for building dynamic user interfaces.

(b)CSS: CSS (Cascading Style Sheets) is a styling language used to control the visual presentation of HTML and XML documents. It defines how elements such as text, images, and layout should appear on a web page. CSS allows developers to specify styles such as colors, fonts, spacing, and

positioning, making it possible to create visually appealing and responsive web designs. It works by applying styles either directly to HTML elements or through class and ID selectors, providing a flexible and powerful way to customize the look and feel of web pages.

(c)JavaScript: JavaScript is a programming language commonly used for web development. It enables interactive and dynamic features on web pages, such as user input validation, animations, and content updates without reloading the entire page. JavaScript runs on the client side (in the user's web browser), allowing for enhanced user experiences and interactivity. It is versatile and can be used to manipulate HTML elements, handle events, fetch data from servers, and create interactive web applications.

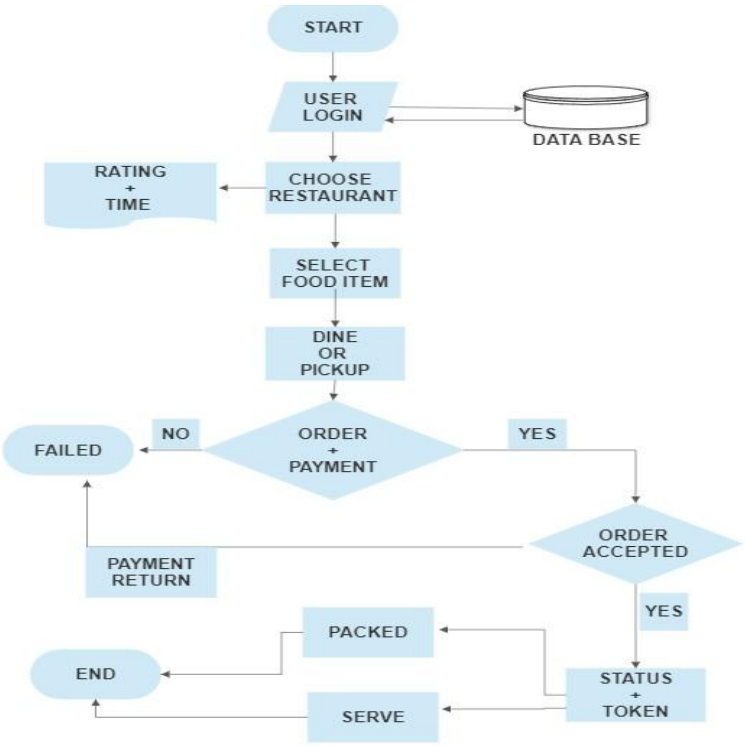
(d)Node Js: Node.js is a server-side runtime environment that allows developers to run JavaScript code outside of a web browser. It uses the V8 JavaScript engine from Google Chrome to execute JavaScript code on the server, making it possible to build scalable and high-performance web applications. Node.js is known for its event-driven architecture and non-blocking I/O model, which enables handling multiple concurrent connections efficiently. It is commonly used for developing server-side applications, APIs, real-time applications, and microservices, offering a wide range of libraries and frameworks to support various development needs.

(e) Mongo DB: MongoDB is a popular NoSQL database management system that stores data in a flexible, JSON-like format called BSON (Binary JSON). It is designed for scalability, performance, and ease of development. MongoDB is known for its document-oriented approach, where data is stored as documents in collections rather than traditional rows and columns. It supports dynamic schema, making it suitable for handling unstructured or semi-structured data. MongoDB is often used in modern web applications, data analytics, content management systems, and other scenarios requiring flexible and scalable data storage solutions.

4. WORKING MODEL:

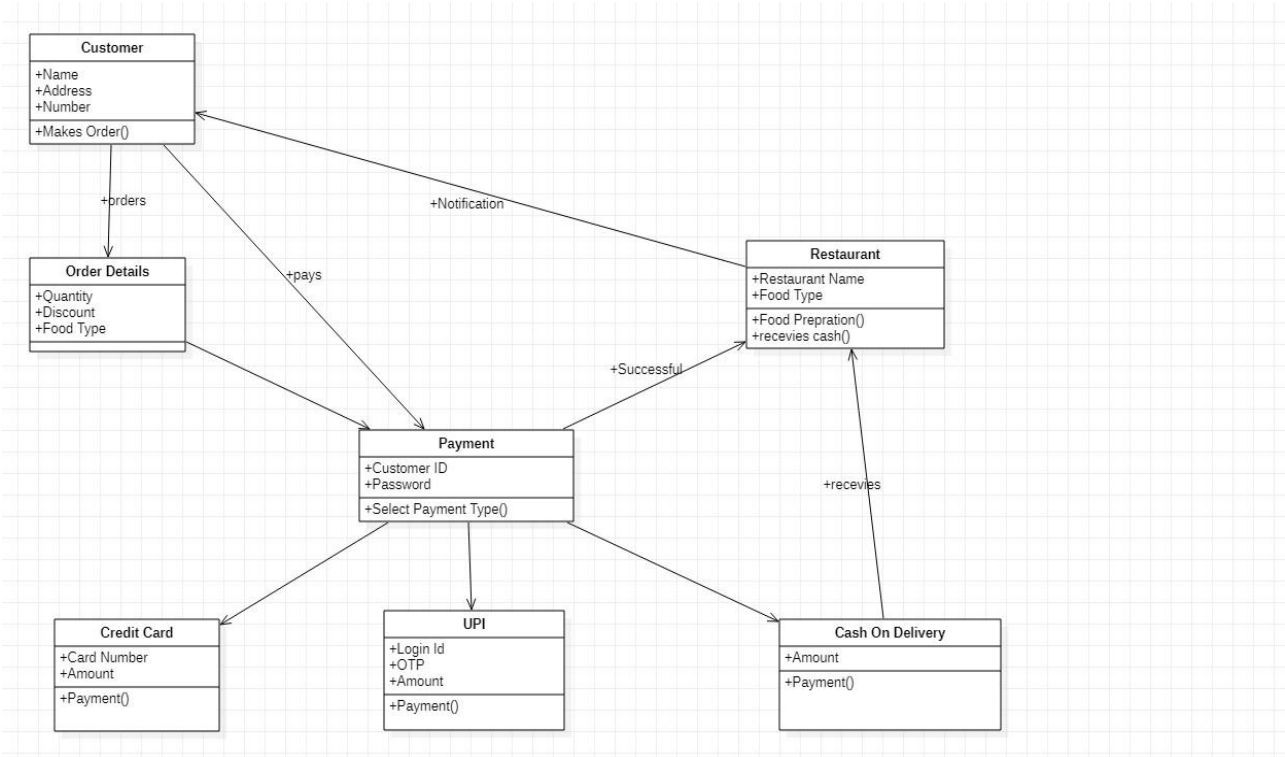
The users have to Sign-up with their mobile number and Email id to use the service.

Login can be done by sending SMS to particular number or Email id. After that the user put the address of his/her location. Upon registration, User will pre-order meal’s through near by restaurant users will receive alerts via SMS regarding their pre-order meal's preparation status and allotted time slot for pickup. Additionally, the platform will send real-time notifications and updates to keep users informed. The backend will be developed using Node.js or Python, with a MySQL or MongoDB database to securely manage user profiles, restaurant data, and orders. Payment gateways like Stripe or PayPal will be integrated for safe online payments.



CLASS DIAGRAM:

A class diagram is a visual representation used in software engineering to show the structure of a system, including classes, attributes, methods, and their relationships. It helps in understanding how classes are organized and interact in a software application.



5. CONCLUSION:

The objective of "Swift Dine" is to revolutionize the dining experience by allowing users to pre- order their food from a wide selection of restaurants listed on the platform. By providing real- time updates, accurate preparation time estimates, and seamless communication with restaurants, Swift Dine aims to minimize waiting times and enhance convenience for users. The platform will enable users to enjoy their meals without the frustration of long waits, making dining out a more efficient and enjoyable experience. Swift dine aims to revolutionize the dining experience by allowing users to pre-order food from listed restaurants, providing real-time updates on order preparation, reducing wait times, and enhancing overall customer satisfaction. The project envisions a significant reduction in waiting time for users, leading to increased restaurant efficiency and improved dining experiences.

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