***Project Phase II Report***

***On***

**Snack Shack Cafe (Website)**

**Submitted for the requirement of**

**Project course**

BACHELOR OF ENGINEERING

**COMPUTER SCIENCE & ENGINEERING**

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**Chapter – 2**

**LITERATURE SURVEY**

The Snack Shack Cafe website is implemented to reduce the manual work and enhances the accuracy of work in a restaurant so employment can be increased. The website allows the user to order the traditional and authentic food from the comfort of their home. This website also manages and maintains the record of customers and their order online. This website has been made in a user friendly interface. So that Customers can add and delete the food items easily and can do payment without any trouble. The complete website is designed by analysis of many other food ordering, restaurant management systems, hotel management systems, reports and journals & articles. Some common literatures are as follow:

[1][*Alimul Rajee || ( 2022).*](https://www.researchgate.net/publication/367179633_ONLINE_FOOD_ORDERING_SYSTEM)

The purpose of [Online Food Ordering System](https://www.researchgate.net/publication/367179633_ONLINE_FOOD_ORDERING_SYSTEM) is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. The Online Food Ordering System's main purpose is to maintain track of information such as Item Category, Food, Delivery Address, Order, and Shopping Cart. It keeps track of information about the Item Category, the Customer, the Shopping Cart, and the Item Category. Only the administrator gets access to the project because it is totally built at the administrative level. The project's purpose is to develop software that will cut down on the time spent manually managing Item Category, Food, Customer, and Delivery Address. It saves the Delivery Address, Order, and Shopping Cart information.

[2] [*Tejas Raibagi, Ashwin Vishwakarma & Jahnavi Naik || (2021*](https://ieeexplore.ieee.org/document/9396040)).

In today's world, with people hustling for their jobs all the time, a huge count of people doesn’t have the time to actually prepare their lunch and here canteen plays a major role. But then again people are in a rush and don't have much time to spend in the canteen as well to place an order or wait until their order is ready. This project is based on an AI-based cross-platform application that focuses on automating all the major canteen functionalities. It enables the user to register online, browse and choose from an E-menu card followed by placing the order and receiving confirmation after successful payment. With the help of this app, students and faculties can order food beforehand and can receive it during the break to ensure that the time spent in ordering and collecting the order is as low as possible. The app also docks in AI, which will help the users to get personal recommendations and food items which are popular amongst others. The objective is to reduce the manual paperwork as the app digitalizes every factor and provides a graphical representation of daily sales and allows comparison for weekly, monthly and annual sales. The feedback system allows the admin to monitor the app and make changes based on the user feedback.

[3][*Cristina-Edina Domokos, Barna Sera, Karoly Simon, Lojos Kovacs & Tas-Bela || (2018*](https://ieeexplore.ieee.org/document/8524854)*).*

Netfood is order management software for food delivery companies. It is a delivery-oriented system that allows clients to order from multiple restaurants at the same time, and provides the possibility to order individually or in a group. Orders can be placed by users through the web interface. The data related to restaurants, foods and orders is managed by administrators. A mobile application is used by the delivery personnel. Both client applications are served with data by a central server. The article presents the architecture and the implementation of the software system. The technologies, tools and methods used during the development process are also described.

[4][*Tang Bin, Xu Hongzhen & Song Wenlin || ( 2009*](https://ieeexplore.ieee.org/document/5288330/)*).*

Current wireless communications enable people to easily exchange information, while web services provide loosely-coupled and platform-independent ways of linking applications across the Internet or Intranet. This paper presents an integration of wireless communication technologies and web services technologies to realize a wireless food ordering system. In this system, it implements wired and wireless data access to the servers and food ordering functions through both desktop PCs and mobile devices such as PDAs over a wired/wireless integrated local area network. To sure the security of the system, the secure web service architecture and some security strategies to ensure mobile communication security are discussed. Web services-based wireless applications on mobile devices provide a means of convenience, improving efficiency and accuracy for restaurants by saving time, reducing human errors, etc.

**2.1 Objectives:**

The Primary goal of this website is to make the interaction of users/customers with café very smoothly and increase the sales and customer relationship. Secondly, this website also helps to display the café products and dishes, so that users can easily see the products and order their dish online just by pressing one click.

Functionalities provided:

* **UI/UX Design:** The Snack Shack café website provides a very interactive and user friendly user interface for the users as well as for the administrator or owner of the website. Where users can very easily order food and the admin can very easily handle all the orders in the database of the site.
* **Tracks Information:** The website is designed using some JS algorithms. Which helps in tracking the information of the users detail as well as the orders details in the software? This process helps in managing the database and increasing the sales and customers of Snack Shack Café.
* **Recommendations:** Software also uses AI and ML for providing the recommendations to the user according to the previous order or using most like dish data. This feature is different from other web applications.
* **Chatbot:** Chatbot is specially designed for providing answers to the common questions of the clients regarding the website or their order etc. Chatbots help and provide instant solution to the user’s questions and also help the café to interact with more and more users toward the website.
* **Data Encryption:** The Snack Shack Café website also has the unique feature of converting the plain text or data into cipher text before storing to the database using addition of parity bits in the data. Which helps to protect the site from various attacks or unauthorized users?