A Project Report on
VIT CANTEEN MANAGEMENT SYSTEM

Submitted in partial fulfilment for the award of the degree of
B.Tech (Computer Science and Engineering)
By

Varun Mishra (18BCE0234)
Samarth Nehe (18BCE0244)
Atharva Gulhane (18BCE0279)
Raghav Jindal (18BCE2080)

Prepared For
Internet and Web Programming (CSE3002)

Under Guidance of
Prof. Nalini N
Assistant Professor (Senior)

School of Computer Science and Engineering

TABLE OF CONTENT

Vellore Institute of Technology, Vellore

1. Abstract

Canteens are one of the favorite places of college goers, thus most of the time they are crowded and over-populated with the teenagers. There are several canteens in VIT, but comparatively way more students, which makes it quite difficult to manage. A lot of time students are also wasted by waiting inside for the food to come as well as stand in long queues for food. Mismanagement Like this can be minimized with the help of the software we are going to propose. We are putting forward an online restaurant management system for the canteens in VIT, where we can keep a systematic record of the restaurants, as well as make it easier for students to buy food, as well as easier for the cooks to prepare dishes accordingly. Our project is a web application with an aim to provide an entire online ordering section with cook as well as students.

Its features include an admin login, employee (cook) login and student login. The administrator will be able to add new canteens/food-parks as well as delete a registered one. Students will be allowed to select a canteen and then go through the menu of that canteen, and order accordingly whatever he or she likes, also they can specify by what time they want it. The cook on the other end can go through the orders, and if the cook feels the time of food pickup is very less or they don't have certain ingredients for a particular dish, they can cancel the order, else, they will accept the order. Using machine learning techniques, the user will be able to place further orders based on the brand and ingredients of the previously placed orders. Hence, this project produces a manageable and systematic approach of a proper management of canteens in VIT University.

1.1 Keywords

Canteen management, Database, Student Login, Cook Login, Orders, Food, ingredients.

2. Introduction

PCs have become part of life for getting to practically any sort of data. Life in the 21st century is brimming with mechanical advances and in this period of innovation it is progressively hard for any association to get by without the utilization of technology. The World Wide Web is a major contributor to the world's growing database of information. It can also be used as a way to share information within the business.In the present time of fast food and serving, numerous canteens have decided to zero in on speedy arrangement and fast conveyance of requests as opposed to giving a rich eating experience.

Being in a university as big as VIT, the customers (students and the teachers) are mostly seen in the area in and around a canteen, stuck in a queue, waiting to order, getting fed up and then leaving from the same. Being in a queue just to order a cup of coffee, or even a light meal is really a tedious process. We hope to make it a tad bit simpler.

Our recommendation is the Canteen Automation System, which is an online food ordering system that works in any food delivery industry. This system makes the order process easy for the customer as well as the canteen. The online canteen system contains e-menu cards that contain the details of the food. The user must first create an account for the use of the service. It will provide a list of different cakes and a list of different items. The customer can make payment through an online payment system for the desired item he/she has selected. After an order has been placed the canteen gets the order details and they can then adjust the order. Details can be stored in a database. Customers don't have to wait at the delivery point for much time as the food will be made in advance. Modernising the Canteen management system will help in better service for users and the time taken to navigate will be reduced.

Our project digitizes the concept of Canteen Management by removing queues from the equation. We provide the VITians, teachers and students alike, with an online platform, a website to order their favourite meal, from their favourite restaurant on-the-go. Let's say they are going from TT to SJT, for their class which starts in the next 10 minutes. Open up our website, select your canteen (SJT Canteen), order a cup of coffee, and buy the time you reach SJT, your pick-up is already ready, money having been deducted from your account's wallet. It's that easy.

The website aims at helping the customers to save a tremendous amount of time and make sure that they are fully fed and queues and lines are not the barrier between their hunger and food. The website also provides the customer login with the option of Feedback along with the best rated canteen. This creates an interactive e- environment for the customers as they can decide which canteen to choose from each month as the leader board fluctuates with the status of best canteen. In the employee login, one can see an internal leader board of sorts where the best employee is displayed based on the highest average sale. This is a good way to increase the efficiency of each canteen, as the employees strive to reach the top of that leaderboard each month. It also enables the user to use certain machine learning methodologies to help the user in ordering next time and making the process faster.

Thus, this website on Canteen Management is created with the sole intention of revolutionizing the canteen experience of VIT for, both, the customers' side as well as the employees' side. This website aims at increasing the efficiency of each canteen and cutting down on wasting precious time by standing in queues.

Vellore Institute of Technology, Vellore

The project is created by using HTML, CSS as the front-end language and PHP and MySQL as the backend one. Python as well as Google Colab is used to implement the machine learning part of the website. The complete tools used, the methodology along with the snippets of the implementation has been shown in the upcoming pages.

This system will help to manage and run the canteens systematically. In this management system, we will provide a web interface that can be used by the customers, here the students and teachers to order food. Its features include an admin login, employee (cook) login and student login. The administrator will be able to add new canteens/food-parks as well as delete a registered one. Students will be allowed to select a canteen and then go through the menu of that canteen, and order accordingly whatever he or she likes, also they can specify by what time they want it. The cook on the other end can go through the orders, and if the cook feels the time of food pickup is very less or they don't have certain ingredients for a particular dish, they can cancel the order, else, they will accept the order. Customers can also give feedback through this app. So that owner of the canteen can evaluate the whole system. This will ultimately create an opportunity to appoint more chefs and better kitchen places to serve food faster. It also enables the user to use certain machine learning methodologies to help the user in ordering next time and making the process faster. Using machine learning techniques, the user will be able to place further orders based on the brand and ingredients of the previously placed orders.

At the point when the client visits the requesting page, they are given an intelligent and cutting-edge menu, complete with every accessible alternative and powerfully

changing costs dependent on the chosen alternatives. In the wake of making a determination, the thing is then added to their request, which the client can audit the subtleties of whenever previously looking at. This gives moment visual affirmation of what was chosen and guarantees that things in the request are, indeed, what was proposed. This framework likewise incredibly relieves the burden on the canteen's end, as the whole cycle of taking requests is computerized. When a request is set on the website page, it is gone into the information base and afterward recovered, in basically ongoing, by a work area application on the container's end. Inside this application, all things in the request are shown, alongside their relating alternatives and conveyance subtleties, in a brief furthermore, simple to understand way. This permits canteen workers to rapidly experience the requests as they are set and produce the important things with insignificant postponement and disarray.

The app is minimized as much as possible to avoid errors while entering data. It also provides error messages during invalid data entry. No detailed information is required for the user to use this program. So all of this proves to be quite user friendly.

The purpose of this program is to perform all canteen activities from the point of view of delivery to food / beverage delivery. The framework ought to keep up a definite record of all bought supplies and food conveyed to the bottle. Furthermore, it ought to likewise monitor the day by day expenses acquired by representatives. The system must provide an interface to the payable deduction. Several investigative resources should also be provided to view costs incurred, planned menus, payments etc.

The Objectives of this project is:

I. To order food rapidly

II. To make it convenient for people who have limited time

III. Reduction in Costs

IV. Reduced paperwork

V. Computerized Order and Billing System

3. Literature Survey

Title of the Literature	Author of the Literature	Summary of the Literature
Time Billing Process for Canteen Management System	B Muniraja, J Rajanikanth	In colleges, schools or Inside the University campus canteen area is offered. Students, college staff or university staff use the facility. Similarly the restaurants served at the canteen by various companies. In these cases students or staff pay their debts in cash. In the current system, payment is the only way to make a payment. This is the case with small cakes. At some major credit card stores they offer large cakes but that is rare. The biggest problem with the cash payment system is that the user always needs to manage the money he or she has. You also need to pay a fixed amount otherwise there are problems with the remaining amount e.g. the bill is Rs.82 and if the customer pays 100 the owner of the canteen must refund Rs.18. this creates a problem and if there is a shortage of coins the owner must keep a certain register or need to provide coupons to canteen users. If the

		bar owner provides a coupon for the remaining amount then the user must carry that coupon. Another problem is that in college students will have food in the same bar for a whole month. In such cases the student account is kept in a notebook. The owner of the Canteen records student details daily and at the end of the month counts. This method is limited and restricts the retention of paper-based records. These paper records may be corrupted or corrupted and student account data may be lost. So is the credit system namely Wallet
Cloud Based Canteen Management System	Tazeen Khan, Daniel Yunus	We have therefore proposed a plan that will effectively manage and change the business process of Canteen. This project is easy to use and gets a quick response. The beauty of using a cloud-based system is that the canteen scale makes no difference. This program can be used for small and large canteen businesses. By using a user-friendly web interface and mobile apps the unique user of the program does not need a special type of training and can use the app easily. The owner can track everything that happens in his business which gives him better control over his business. Distribution of data according to the number of food products sold per day, products in use are removed due to automated programs. There is a record of all sales. Suggestions / feedback can be viewed directly by the owner. With all the calculations required and the

		amount of profit / loss, the amount of revenue is made by the system itself. The manager does not need to keep log books. Due to the financial system the cash flow is removed.
Automated Food Ordering System With Real Time Customer Feedback	Shweta Shashikant Tanpure, Priyanka R.Shidankar, Madhura M. Joshi	The quick development of remote innovation and cell phones in this period vastly affects our lives. Some underlying endeavors have been made to coordinate and utilize both of these innovations to propel the travel industry. This research project aims to change the process of ordering food at restaurants and improve the customer food experience. In this paper we discuss the development and implementation of an automated food order system with real-time customer feedback (AOS-RTF) of restaurants. This program uses wireless data access to servers. The Android application on the client's cell phone will have all the menu subtleties. The central database is automatically updated with the details of orders from the customer's app and it is sent to the cashiers and kitchen respectively. The restaurant owner can easily manage menu changes. The wireless mobile app provides an easy way, improves the efficiency and accuracy of time-saving restaurants, minimizing human error and real-time customer feedback. This program successfully overcomes the shortcomings of the previous PDA-based diet plan and is less expensive and more efficient than most

		of the affected restaurant management systems
Canteen and Catering Management System	Eng Wei Seng	There are ordering, staff maintenance, user maintenance, food maintenance, catering management, restaurant management and report generation. The project is developed using agile methodology and an object oriented approach is applied for the system's design. During system development, Netbeans and Oracle 11g are used and the programming language is java. This project has undergone several phases. There are planning analysis, design, development and testing. First, in the planning of this project,project plan is written. Next, during analysis stage, system requirements specification and activity diagram modeling the current system are produced. In design stage, various UML diagrams such as use case diagram, sequence diagram, class diagram and etc are drawn. As for the development stage, several workable sub-modules are produced and when proceed to testing stage, the status report for the test cases are generated. The assessment criteria used for this project are project plan, requirement analysis, design, final software, system implementation, system maintenance, project management, innovativeness and final documentation.
Cross-platform development for an	Faisal Bin Al Abid , A. N. M. Rezaul Karim	There are ordering, staff care, user retention, food storage, food

online food delivery application		management, restaurant management and reporting. This project is developed using an agile approach and using an object-oriented approach to program design. During system development, Netbeans and Oracle 11g are used and the target language is Java. This project has several phases. There is an analysis of planning, construction, development and testing. First, in planning the project, a project plan is written. Next, during the analysis, the specification of the program requirements and a diagram of the work currently underway the system is done. In the design phase, various UML diagrams such as application case diagram, sequence diagram, class diagram and so on. With regard to the development phase, small practical modules are produced and as you progress through the testing phase, a report of the status of the experimental cases is generated. The test method used for this project is project plan, needs analysis, construction, storage software, system implementation, system maintenance, project management, design and final documentation.
Canteen Management Android Application using E-wallet	Rameshwari Fegade, Gaurav Nandge, Pranjal Patil, Tejas Gaikwad, Prof. P.P. Bastawade	This paper discusses the issue of a crowded canteen and ultimately proposes a equally effective solution. It also discusses the importance of paying using E-Wallet. During the break, there

		is a large crowd at the college bar. Starting at the line at the coupon counter goes to the delivery counter most of the time you spend waiting because the students and geniuses are late for their talks. Both students and professionals, often wish to have a way to significantly reduce or eliminate this waiting period. One solution to this problem is to have a system that once the order is placed is displayed directly on the kitchen monitor. This will avoid time wasted on the service counter when the server takes time to deliver previous orders before picking up a new coupon and placing it in the kitchen. And one can have a place to place orders in advance so that his order can be kept ready for the time he chooses. Time spent on tender changes can also be reduced by making it easier to pay via e-wallet. And he can also pay in cash for delivery.

4. Proposed Work

In order to remove the loopholes of the above provided system, we are establishing this cross-platform website for ordering food in an efficient way. This is considered a very effective solution. No matter where the user is, he/she can easily order the food from any canteen and expect it to be ready by the time they reach their destination. When a user opens the website, they are provided with a list of menu. After selecting certain options, the items are added to their order list, the user can update their order details whenever they wish to. The user can also have a

look at the food that he/she has ordered and will appear at the end of the bar and after the completion of order the user is notified. As the whole process is automatic, it is easy for the crew as well as it removes burden. This system makes and manages all the activities of the bar such as ordering, earning money and making payments. Allows canteen staff to place orders promptly and prepare the appropriate orders with minimal delay. This website takes into consideration all the details of food items like its name, information ,price and image etc. The canteen manager can see all orders and the order status will be updated in the canteen database. Users are allowed to check their balance, order history and pending price. The calculation of monthly sales can be easily calculated by the Canteen Manager, and does not need any manual labour

4.1 About The Product

This website on Canteen Management is created with the sole intention of revolutionizing the canteen experience of VIT for, both, the customers' side as well as the employees' side. This website aims at increasing the efficiency of each canteen and cutting down on wasting precious time by standing in queues.

4.2 Product Scope

Standing in a queue when one is truly hungry is the most tedious job. A customer expects to get their meal on time to fulfil their hunger and to manage their time. A university where the population is immense and time very less, the thought of standing in a queue discourages students and teachers alike to have a proper meal in any of the canteens in the college. This website is a solution to it, as it curbs out the process of long queues and delivers the customers their food as soon as they reach their destination.

Features -

Its features include an admin login, employee (cook) login and student login. The administrator will be able to add new canteens/food-parks as well as delete a registered one. Students will be allowed to select a canteen and then go through the

menu of that canteen, and order accordingly whatever he or she likes, also they can specify by what time they want it. The cook on the other end can go through the orders, and if the cook feels the time of food pickup is very less or they don't have certain ingredients for a particular dish, they can cancel the order, else, they will accept the order.

The website also provides the customer login with the option of Feedback along with the best rated canteen. This creates an interactive environment for the customers as they can decide which canteen to choose from each month as the leader board fluctuates with the status of best canteen. In the employee login, one can see an internal leader board of sorts where the best employee is displayed based on the highest average sale. This is a good way to increase the efficiency of each canteen, as the employees strive to reach the top of that leaderboard each month. It also enables the user to use certain machine learning methodologies to help the user in ordering next time and making the process faster. Using machine learning techniques, the user will be able to place further orders based on the brand and ingredients of the previously placed orders.

Input –

•Admin can input canteen details and add it in the web app database.

•Canteen staff can input items available in the canteen according to the ingredients available, along with the item price and item description.

•Students/faculty can input their choices on what they want to eat and choose from the menu so that they can order from our application.

•Students/Faculty can input the time on which they want to collect the food from the canteen.

Output –

•All list canteens available to choose items from.

•All items available for ordering for each canteen.

•On ordering any item, after successful online payment users get a confirmation slip of their order through their number or email.

•Students/Faculty can collect their ordered item from the canteen as per their decided time slot.

This system will help to manage and run the canteens systematically. In this management system, we will provide a web interface that can be used by the customers, here the students and teachers to order food. Its features include an admin login, employee (cook) login and student login. The administrator will be able to add new canteens/food-parks as well as delete a registered one. Students will be allowed to select a canteen and then go through the menu of that canteen, and order accordingly whatever he or she likes, also they can specify by what time they want it. The cook on the other end can go through the orders, and if the cook feels the time of food pickup is very less or they don't have certain ingredients for a particular dish, they can cancel the order, else, they will accept the order. Customers can also give feedback through this app. So that owner of the canteen can evaluate the whole system. This will ultimately create an opportunity to appoint more chefs and better kitchen places to serve food faster. It also enables the user to use certain machine learning methodologies to help the user in ordering next time and making the process faster. Using machine learning techniques, the user will be able to place further orders based on the brand and ingredients of the previously placed orders.

4.3 Product Functions
The system functions will go in this order:
- The user would login in to the system according to the class it belongs to, student/ teacher, chef or admin.
- In case of administrator, the system provides the options to add new canteens/food-parks as well as delete a registered one.
- For the chef login, the software offers the function to go through the orders, and if the cook feels the time of food pickup is very less or they don't have certain ingredients for a particular dish, they can cancel the order, else, they will accept the order.
- Students/ Teachers will be allowed to select a canteen and then go through the menu of that canteen, and order accordingly whatever he or she likes, also they can specify by what time they want it.

- The website also provides the customer login with the option of Feedback along with the best rated canteen.
- In the employee login, one can see an internal leader board of sorts where the best employee is displayed based on the highest average sale.
- Using machine learning techniques, the user will be able to place further orders based on the brand and ingredients of the previously placed orders.

4.4 Functional Requirements

Users of the online canteen system, namely canteen customers, must be provided with the following functionalities:
Create an account. Manage their account. Log into the system. Navigating the menu of the canteen system according to the presence of items at that period of time(I). Select an item from the menu. Add an item to their current order. Reviewing the current order of customers after the modification. Providing option 'Remove' to discard the items which added to the current order. We can remove items in a selected manner if needed. Customers can remove all items too. Place an order by selecting the canteen. Customers will receive the confirmation in the form of an OTP message. Customers can give the feedback for the canteens. See the leaderboard.

The respective canteen chefs, must be provided with the following functionalities:
Employee Login. Manage Employee Login. Chef can deny/ accept the order as per their choice. Can view the pending orders See the leaderboard.

4.5 Modules

4.5.1 Menu Management System

The menu management system plays one of the key roles in the online bar system. The menu management system will only play a role with canteen employees and a specific canteen manager. The menu will be handled after knowing if the item is available at the time of order. The ordered item would be managed after the order has been placed. With this control the required menu will be displayed in the web order users' program. The menu system controls and shows the menu to the user

using a graphical user interface. The menu system gives the user the power to use objects, using a graphical user interface.

4.5.2 Order Retrieval System

The recovery of the ordering process is one of the easiest and most evident parts of an online canteen management system. The Order Retrieval System operates in three phases. With all three of these features, the order recovery system is easy to operate. As a menu ordering system, it is made to be used and operated only by canteen employees and some canteen managers. The tasks are: Extract new orders from the database and show orders in a readable and straight-forward way. Mark the ordered order and remove it from the active order list. User Connector Details: Each component of the program. All of this is described below.

4.5.3 Web Ordering System

Adding an item to an order is done with the click of a single button. Users can use the navbar to travel throughout the website and then select the food that belongs to a particular category.

Ineffective Operational Requirements
Time: The time between conveyance of the request cycle between the user and the canteen manager needs to be as short as possible.
Easy to use: The UI needs to be kept straight-forward and cleaned up. Since there are people with different mindsets, our canteen automation system should be easy to use. They will work with this process to make our system much efficient for them to understand.

4.6 Design Techniques

The website is made using the following technologies stated below:

HTML, CSS, Javascript, Bootstrap, PHP, MySQL.

HTML, CSS, Javascript, Bootstrap are used for developing the frontend for our website. PHP is used for server side scripting. MySQL is used as the database.

4.7 Tools and Technologies Used

The methodologies and the process model used for the process are mentioned below.

Software Tools Used:
- Visual Studio Code (Editing Tool)
- XAMPP Server
- MySQL
- Google Colab
- Python IDLE (v 3.8)

Language Tools Used:
- HTML
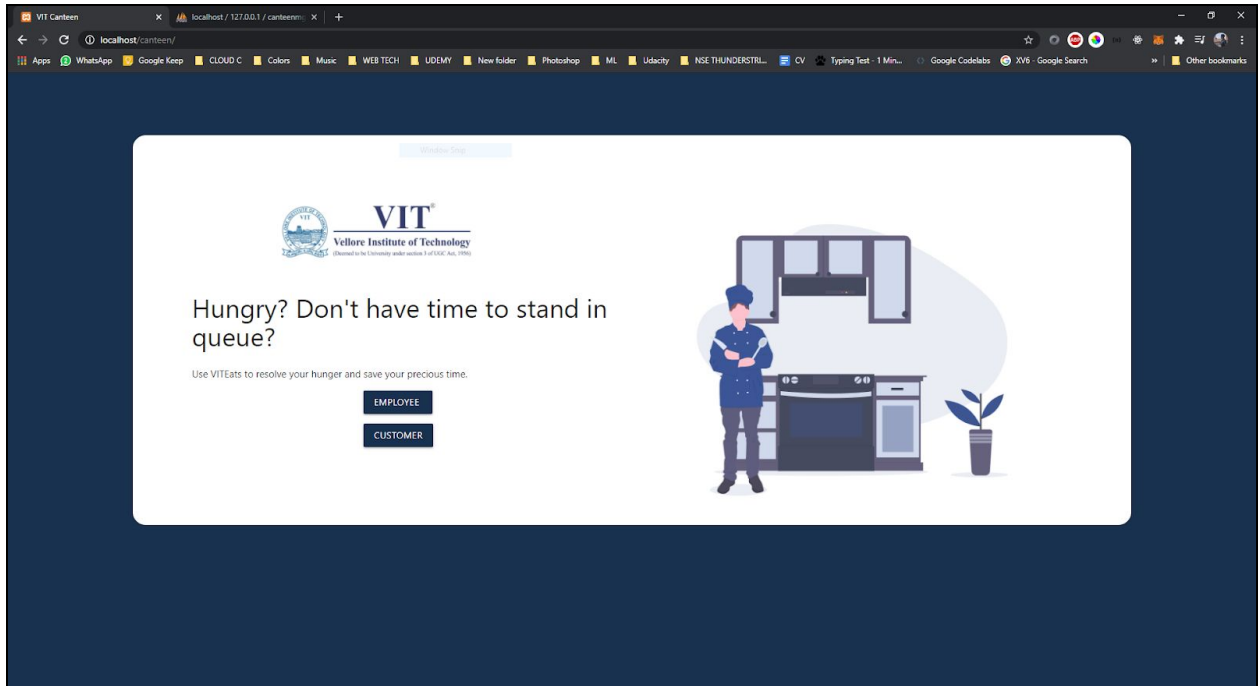- CSS
- PHP
- MySQL
- PYTHON

5. Experiments

5.1 Implementation

The landing page for the users, where the user proceeds as either employee or customer.

Customer Login, the password and the username being the same as provided to them via the VIT database.
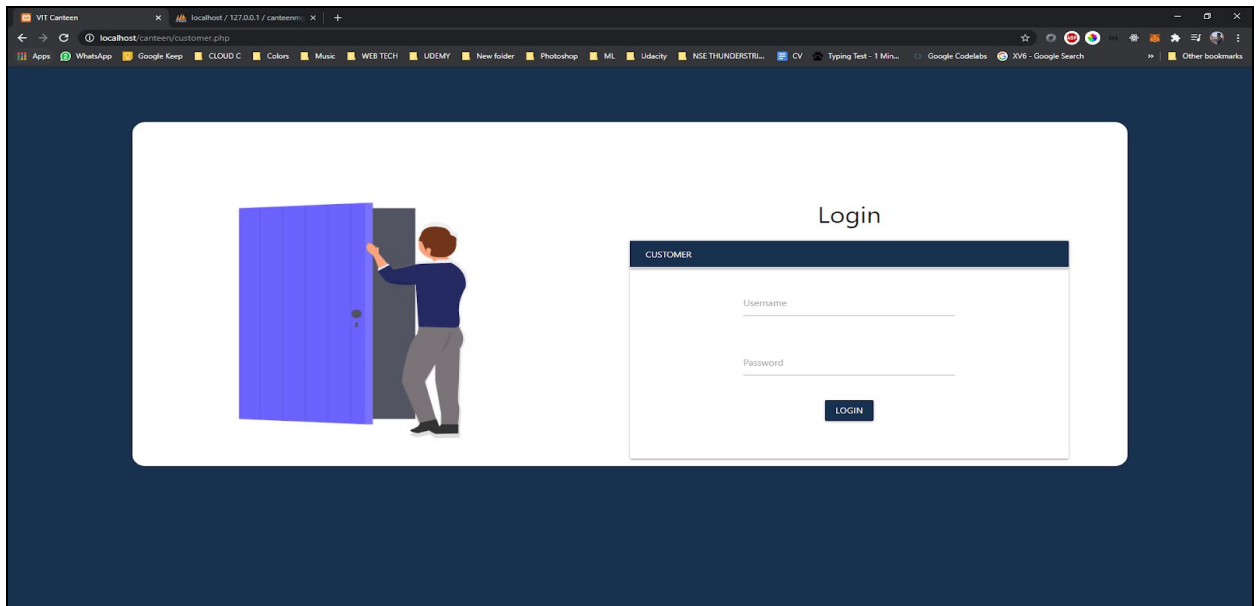
On entering wrong details in the login box, the message of invalid credentials pops up

Vellore Institute of Technology, Vellore
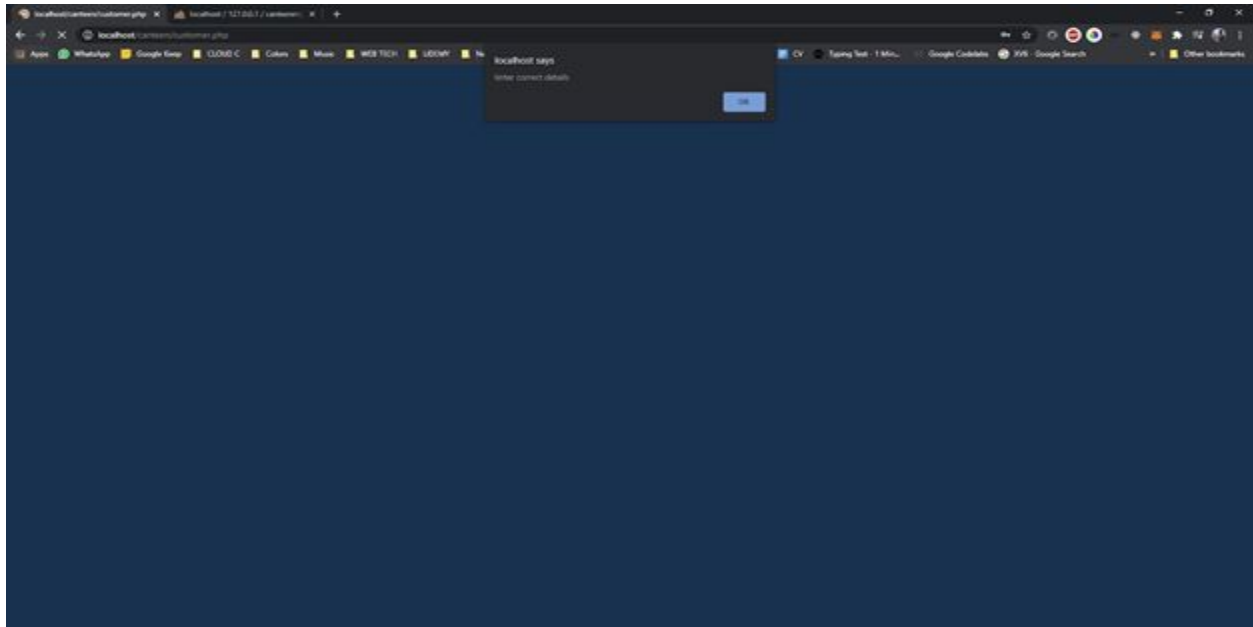
Customer homepage, where all these details are displayed:

- Name, Registration Number
- All the canteens in the university, where the order can be placed at.
- The directions to each canteen can also be seen on google maps by clicking on GET DIRECTIONS
- The Leader board, which shows the best rated canteen and the canteen with most sales.
- The option of viewing the order statuses, along with the option of feedback

Vellore Institute of Technology, Vellore
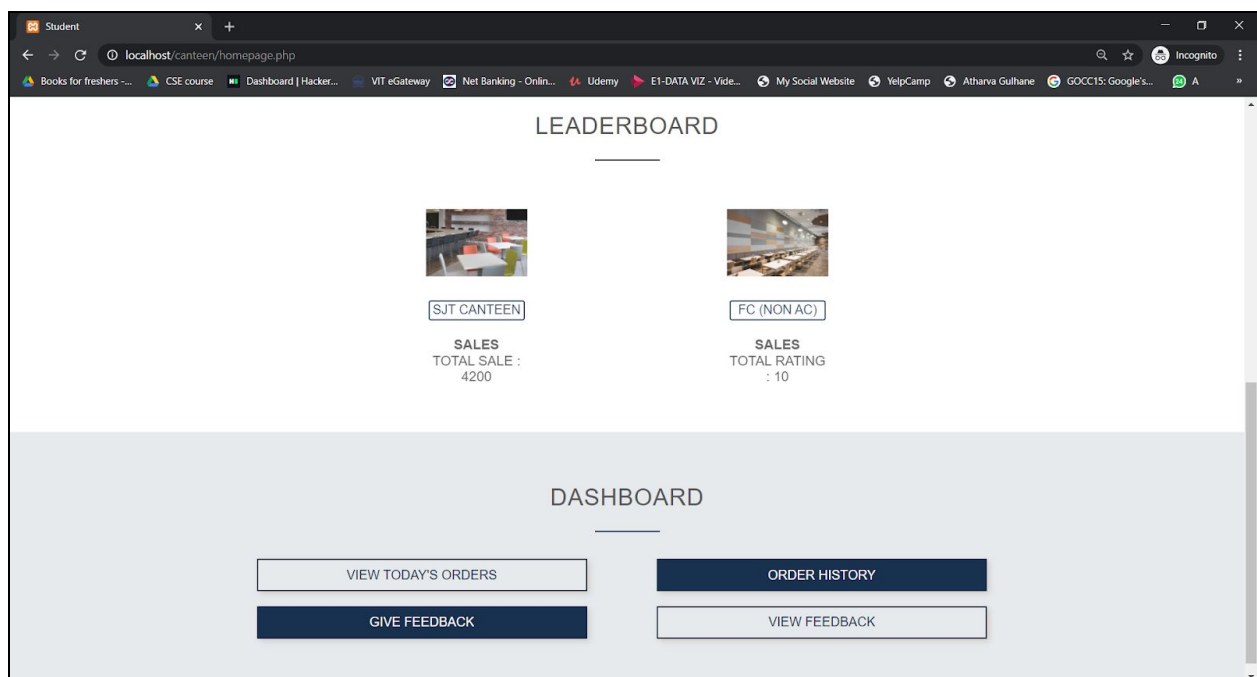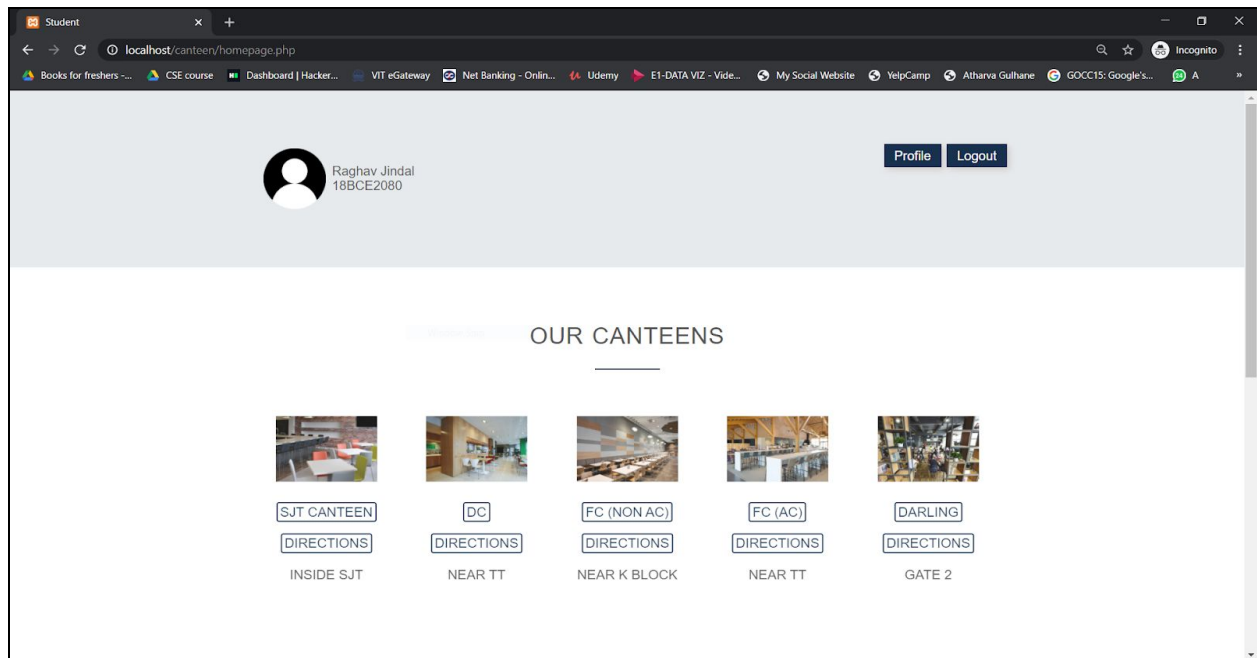
If you click on a particular Canteen and it is closed. There is a Warning flash message that shows the Canteen is Closed.
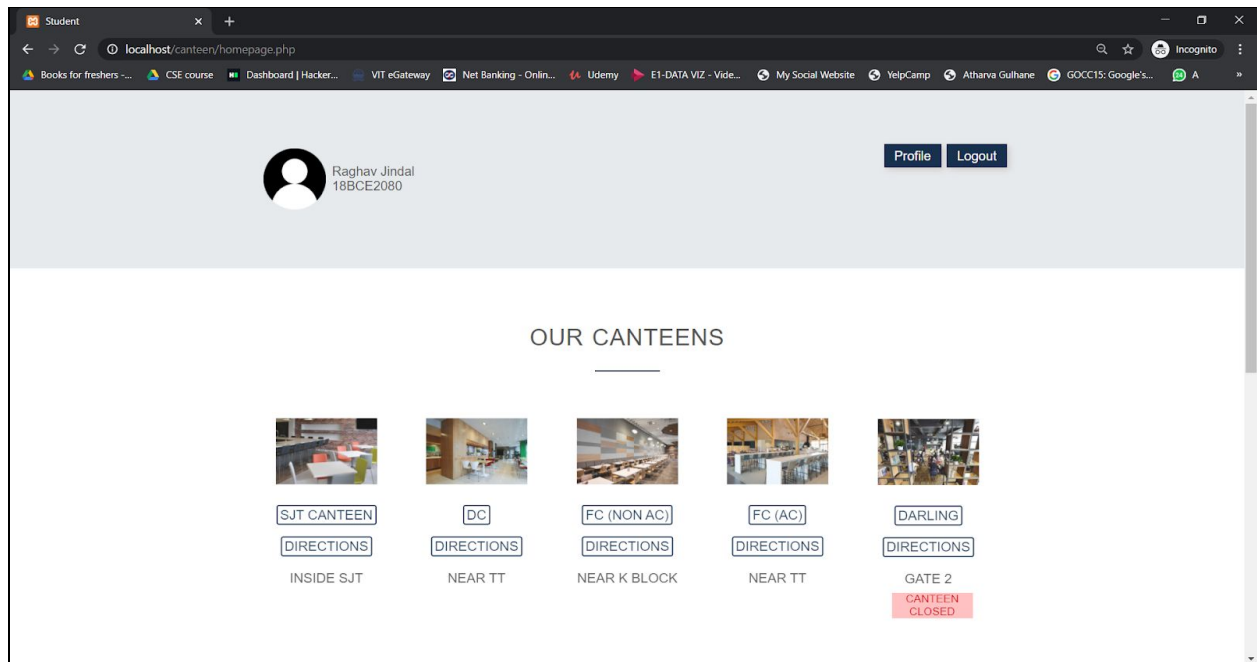
The 'Profile' of the customer displays these details. The wallet balance is the most important as the change in wallet amount keeps on taking place as and when the customer places an order, or is subject to cancellation of order.

The user also has an option of changing the password provided to him.
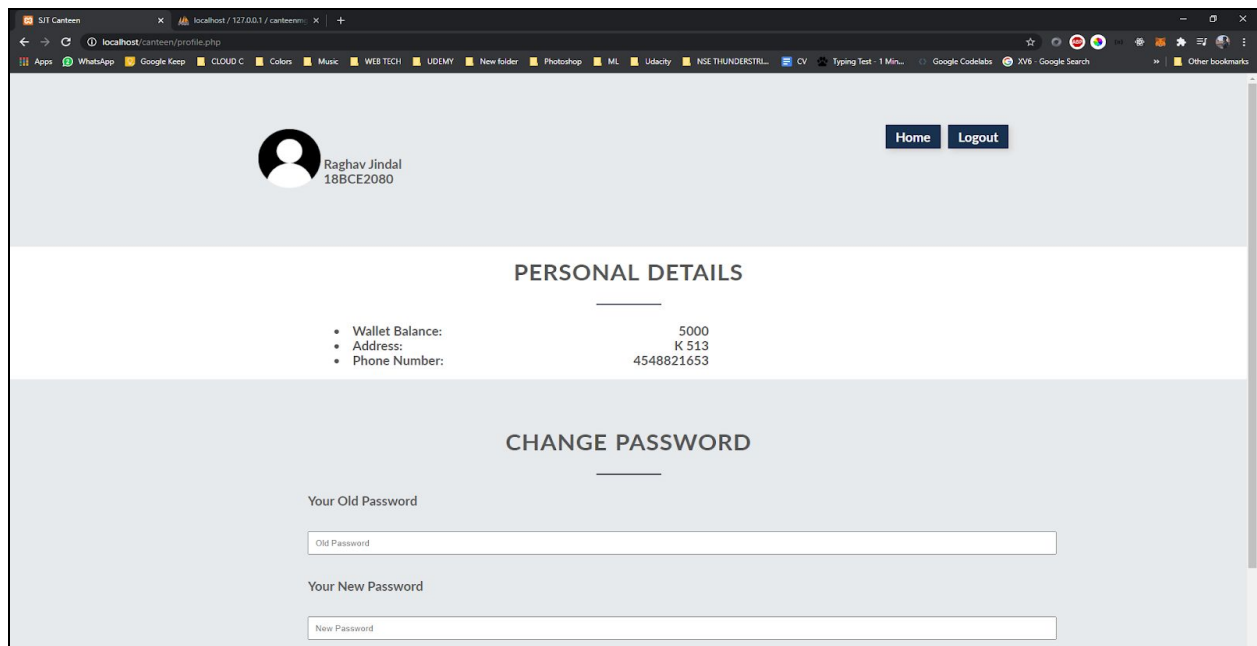
Moving on to the placement of order, on clicking any of the canteen, this is the page we land to.
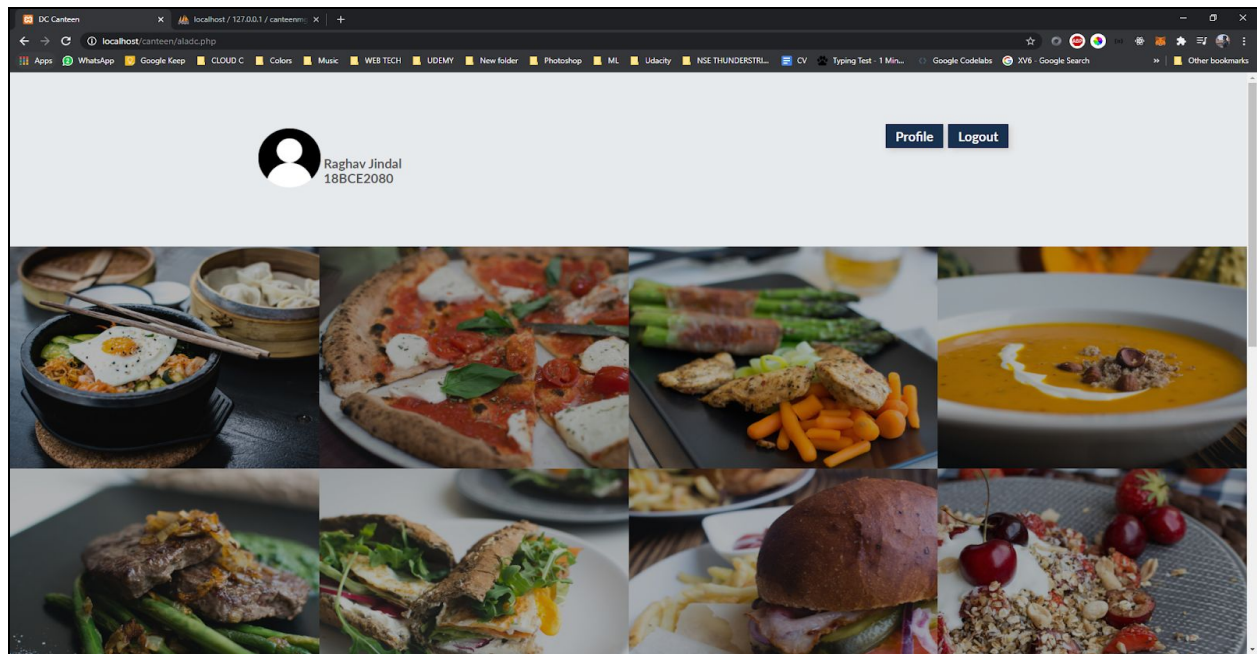
The Alacarte displays all the food items that are provided by the said canteen, the customer can log in the quantity of each food item and place the order.
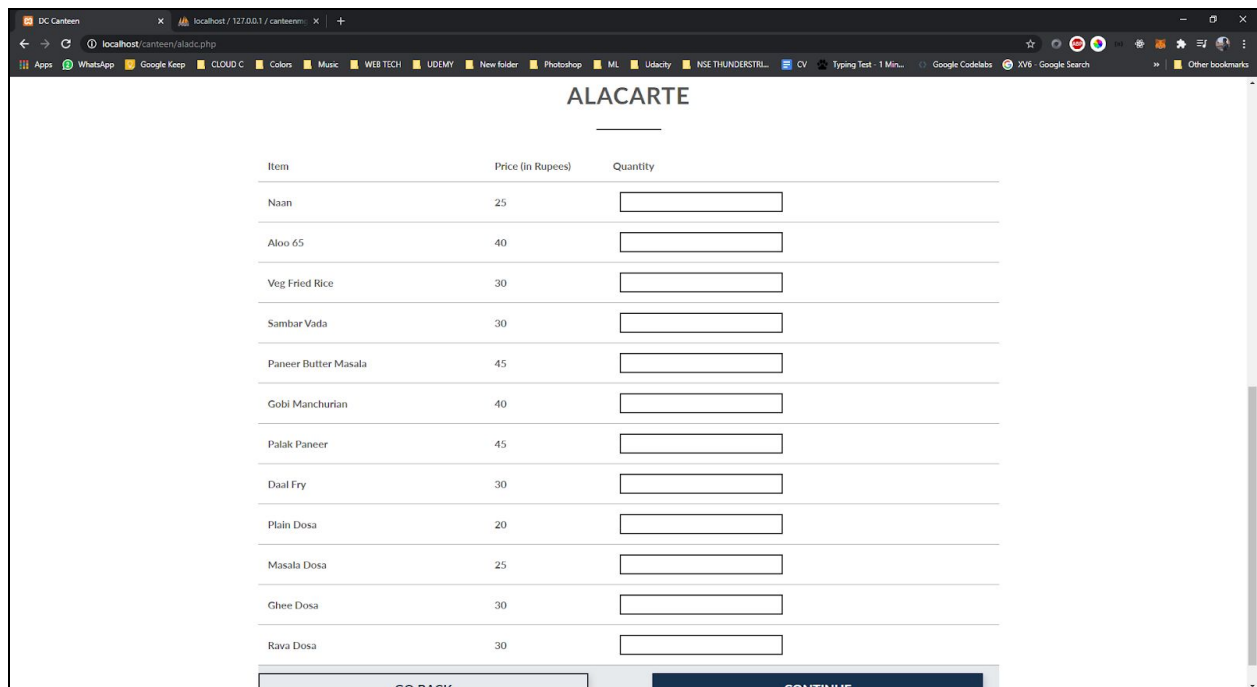
A OTP verification code is sent to the user's email id.

If the entered OTP is correct, a flash message and alert popup shows "Order is Placed".
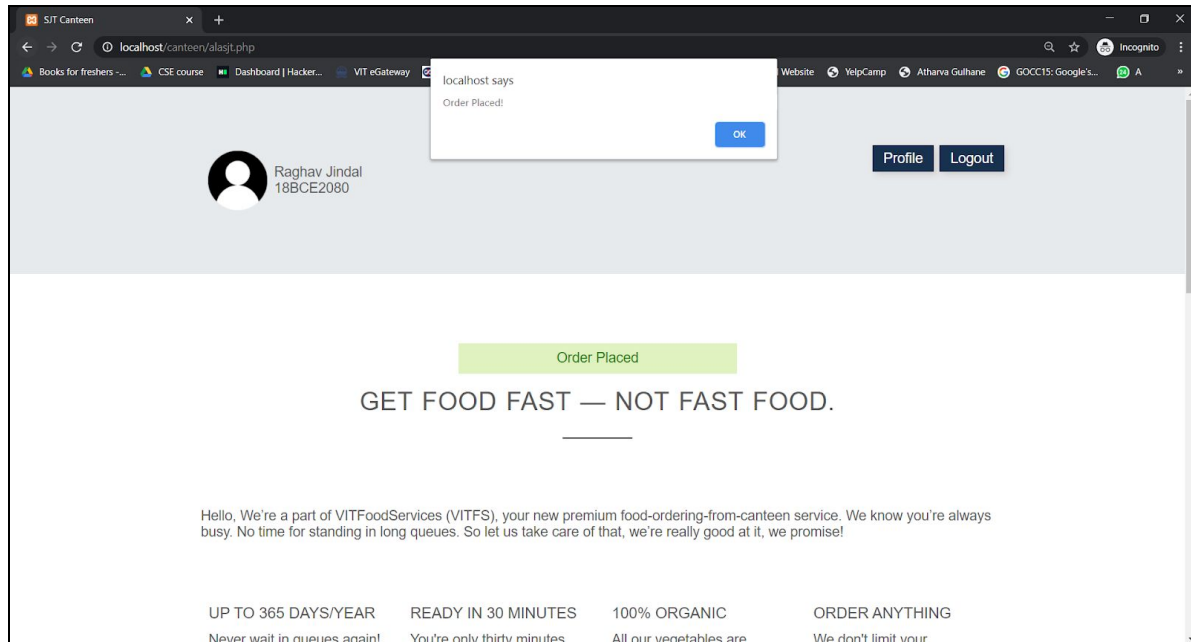
If OTP entered is incorrect, a flash message shows "Invalid OTP"
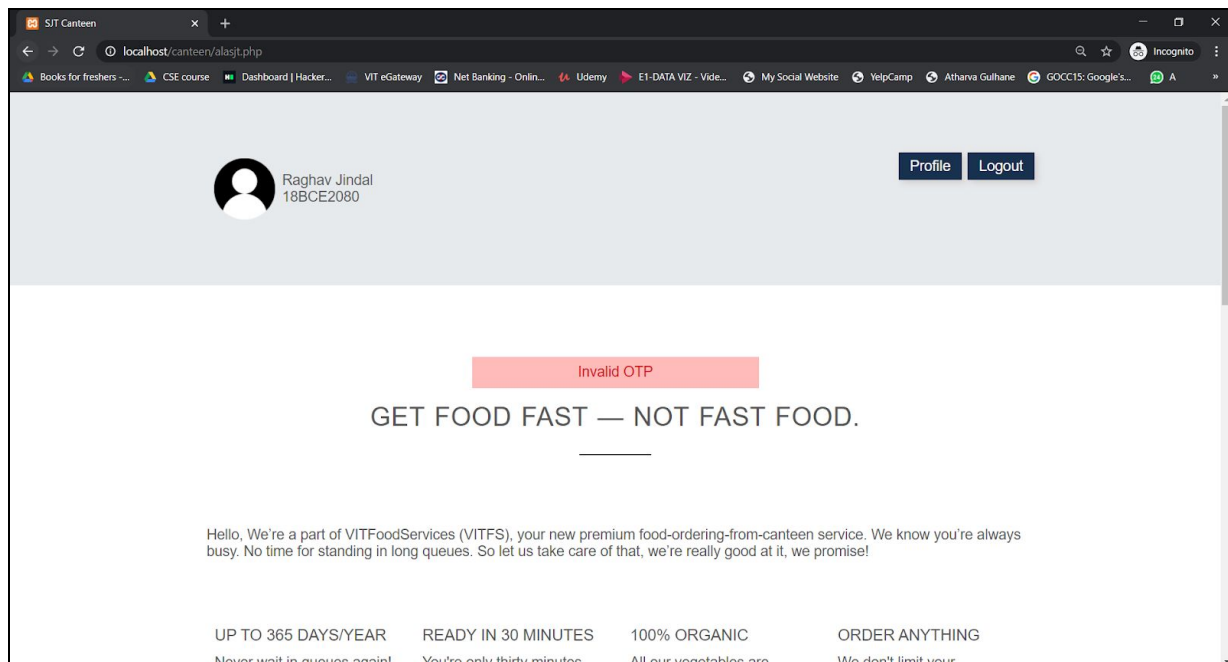
As soon as the order is placed, the wallet balance reduces by the cost of the order.

'Order History' shows all the orders placed by the customer till the previous day.
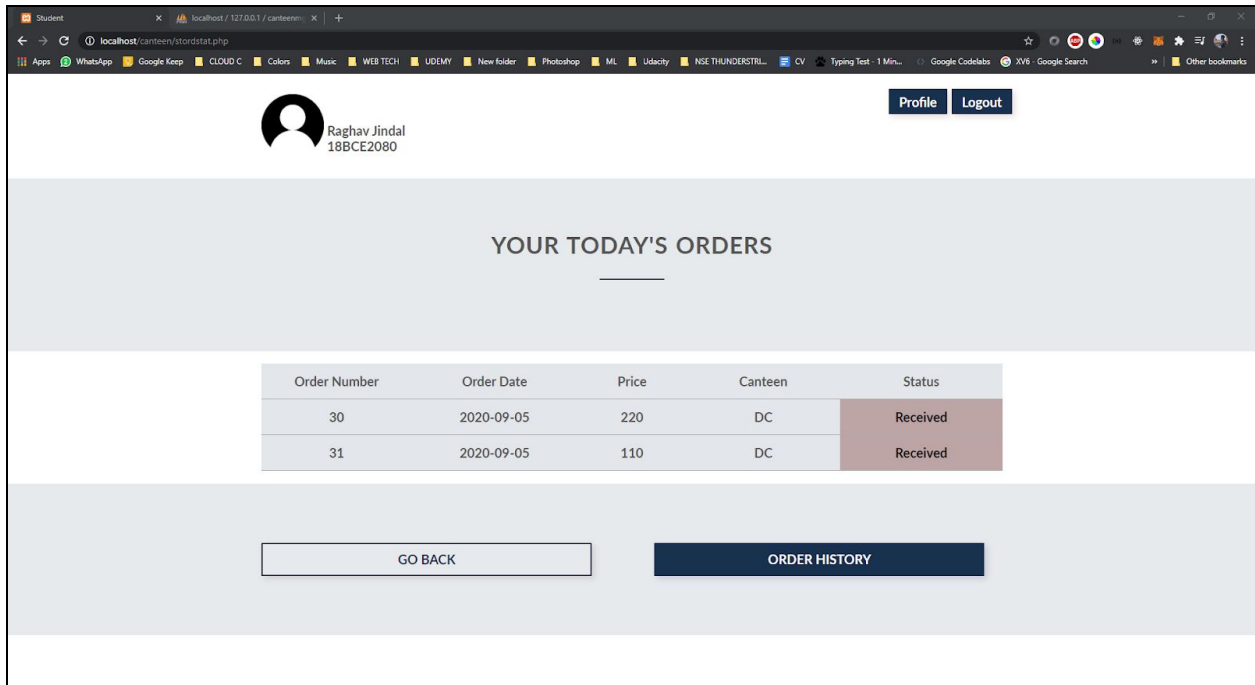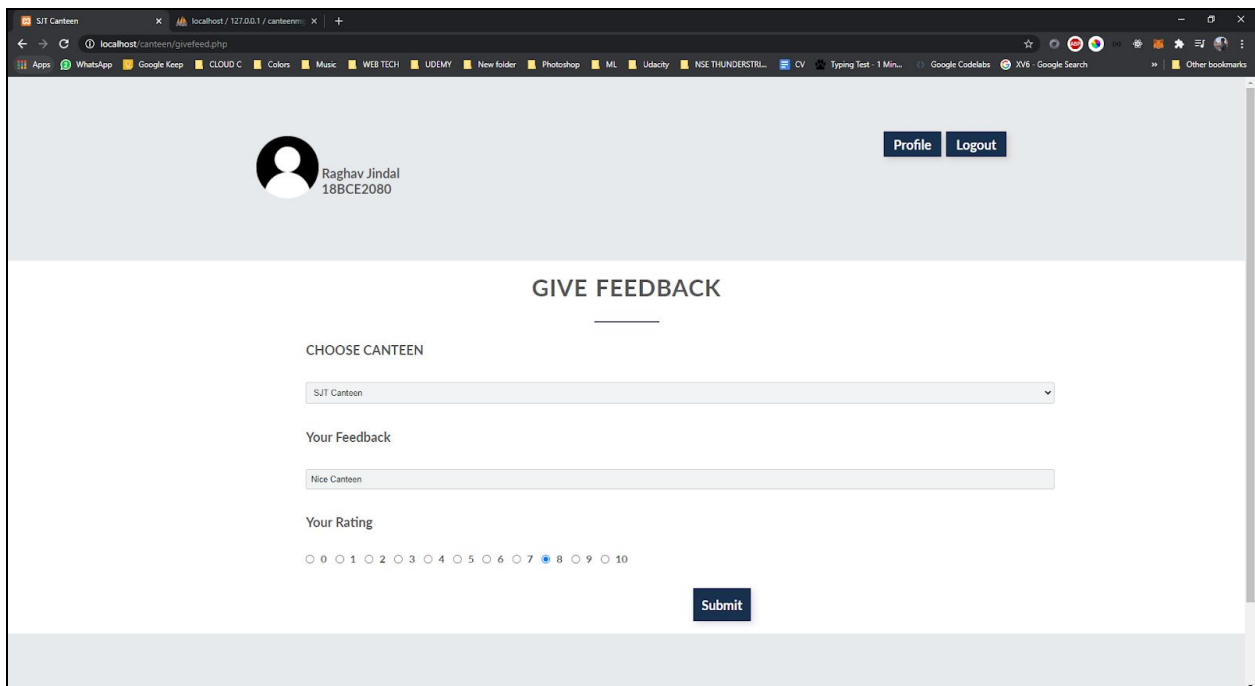
'Today's Orders' signifies the status of the order placed today, as given by the corresponding canteen.

'Give Feedback' allows the user to provide feedback to any particular canteen.

Vellore Institute of Technology, Vellore

'View Feedback' allows for the customer to view all the feedback received by each canteen till date.
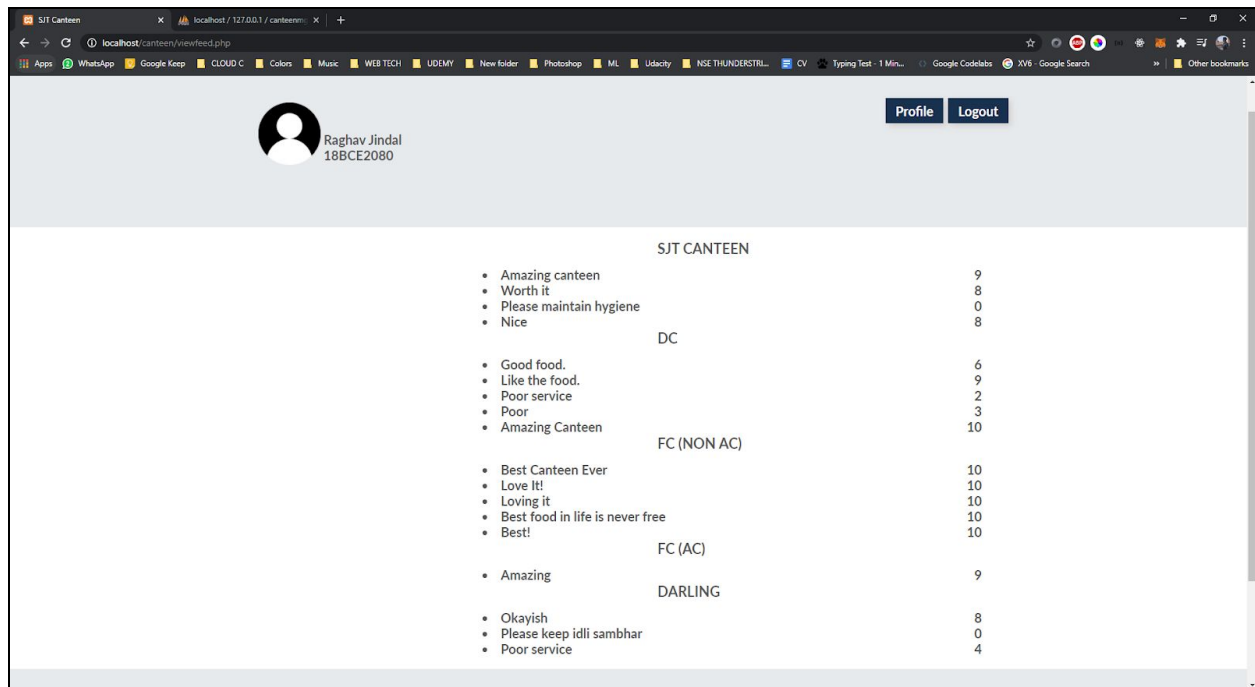
The user will also get the directions through google maps to reach the canteen to collect the order.
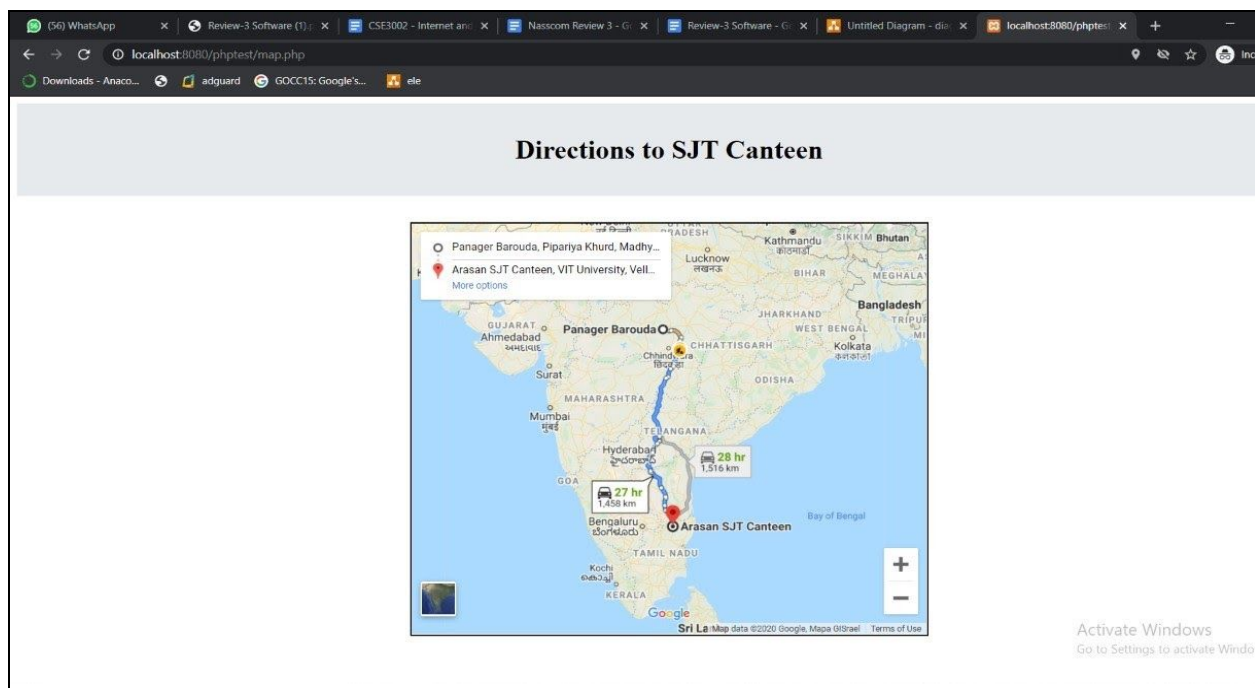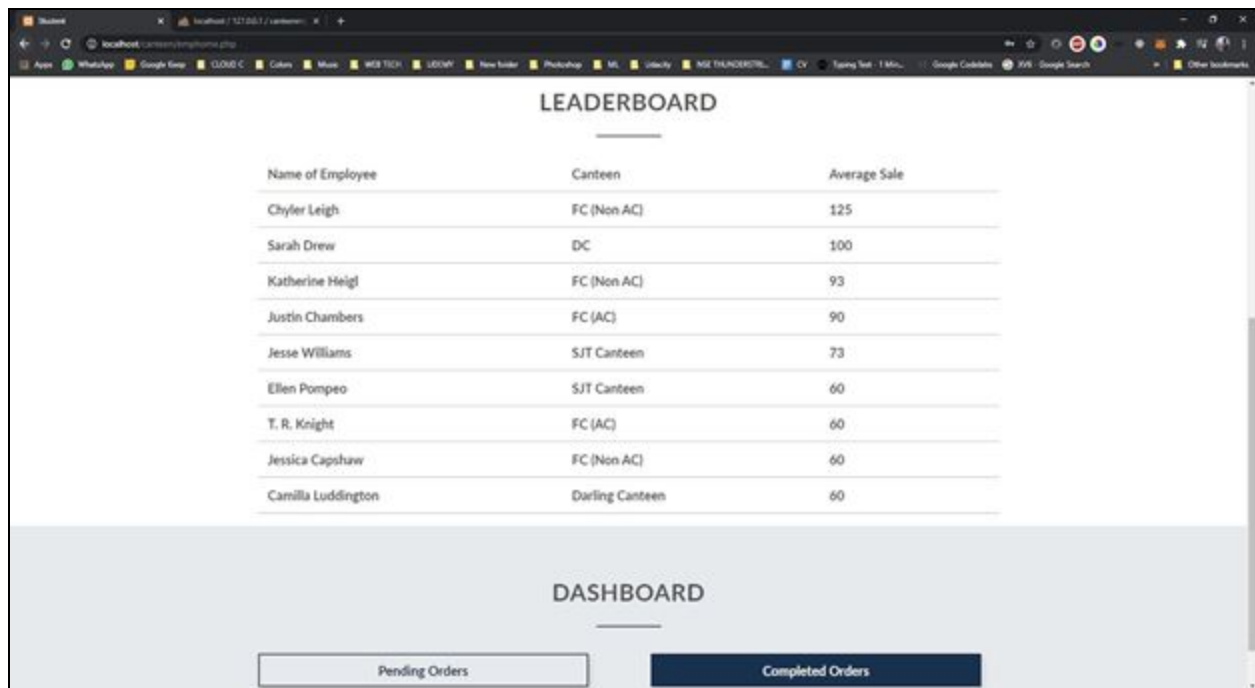
The login page for the employees, where they enter the credentials provided to them.
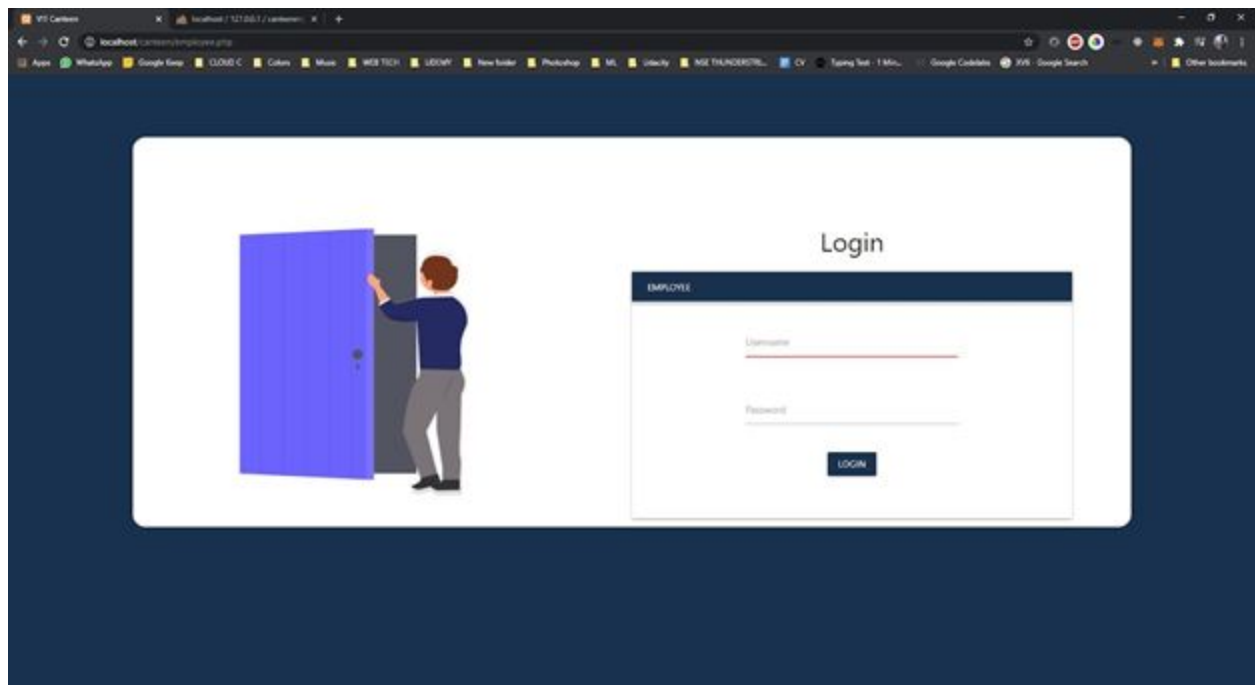
The home page of the employee displays the best employee, based on the most average sale done by the said employee irrespective of the canteen.

Vellore Institute of Technology, Vellore
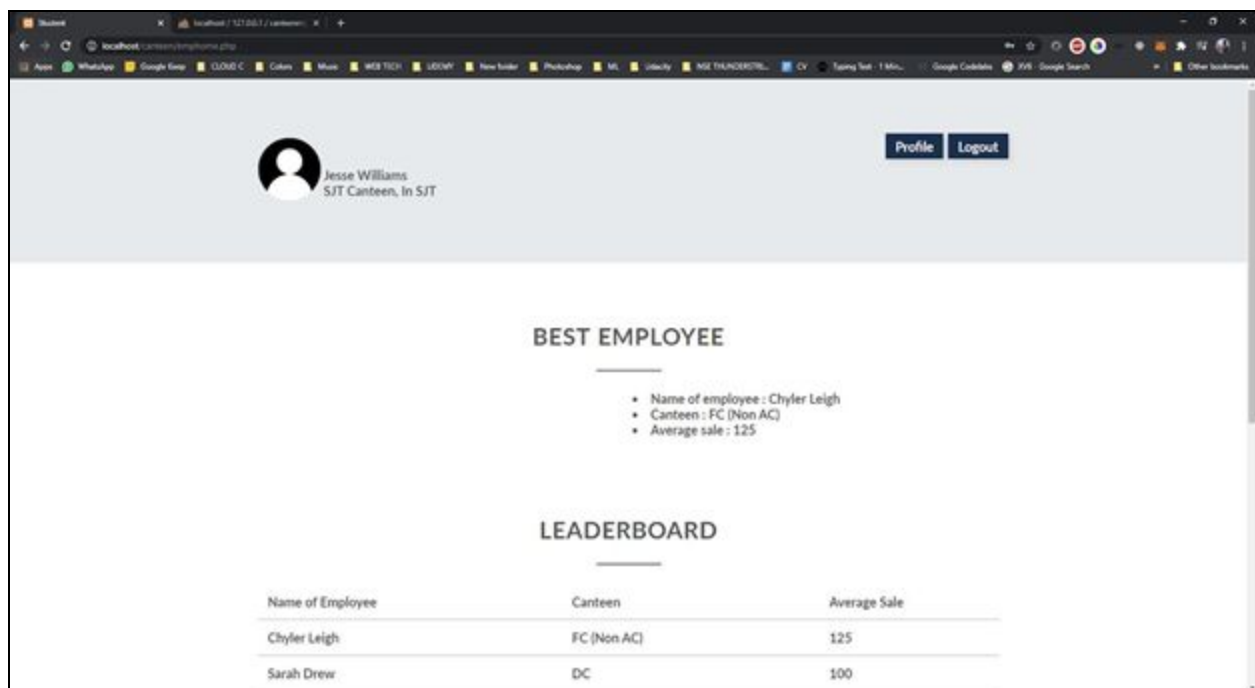
The homepage also shows the leader board where the employee names, along with their canteen and average sales are displayed, going from best to worst.

Moving on to Order History, the list of all orders till the previous day which has been completed or cancelled by the employee are displayed.

Vellore Institute of Technology, Vellore

In "Today's order", the employee can view the order received by them.

The initial status is shown as "Received".
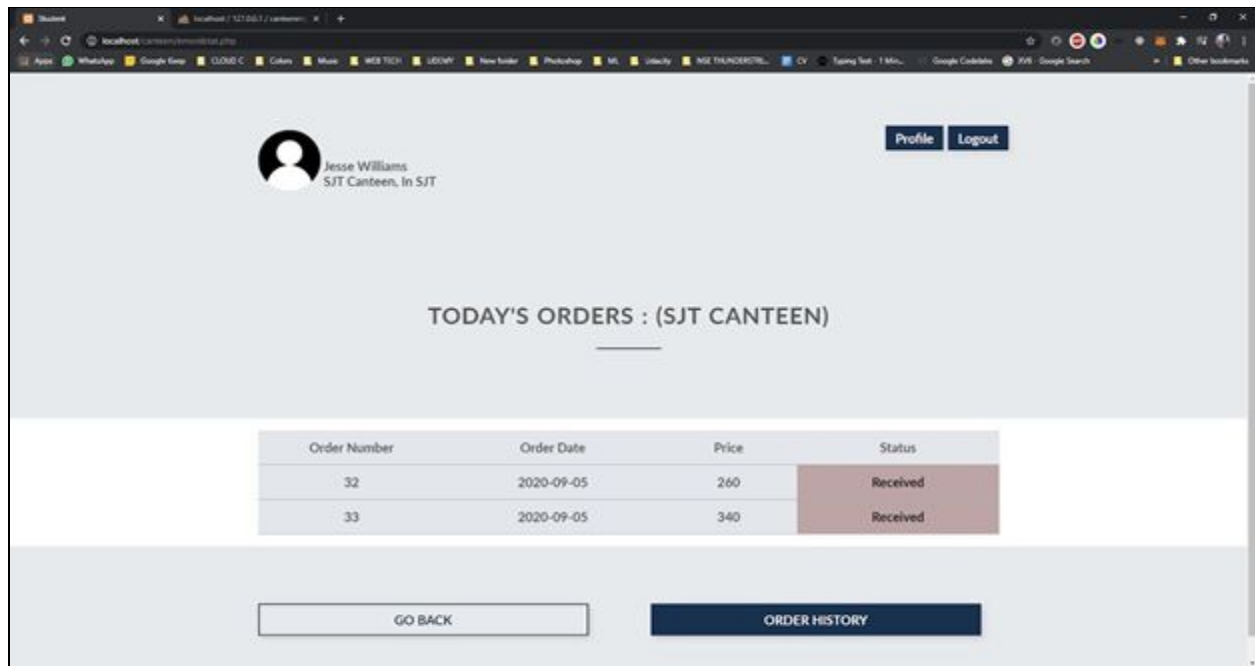
The employee has an option of cancelling the order (no. 32) by clicking on the order and select "Decline".

Vellore Institute of Technology, Vellore
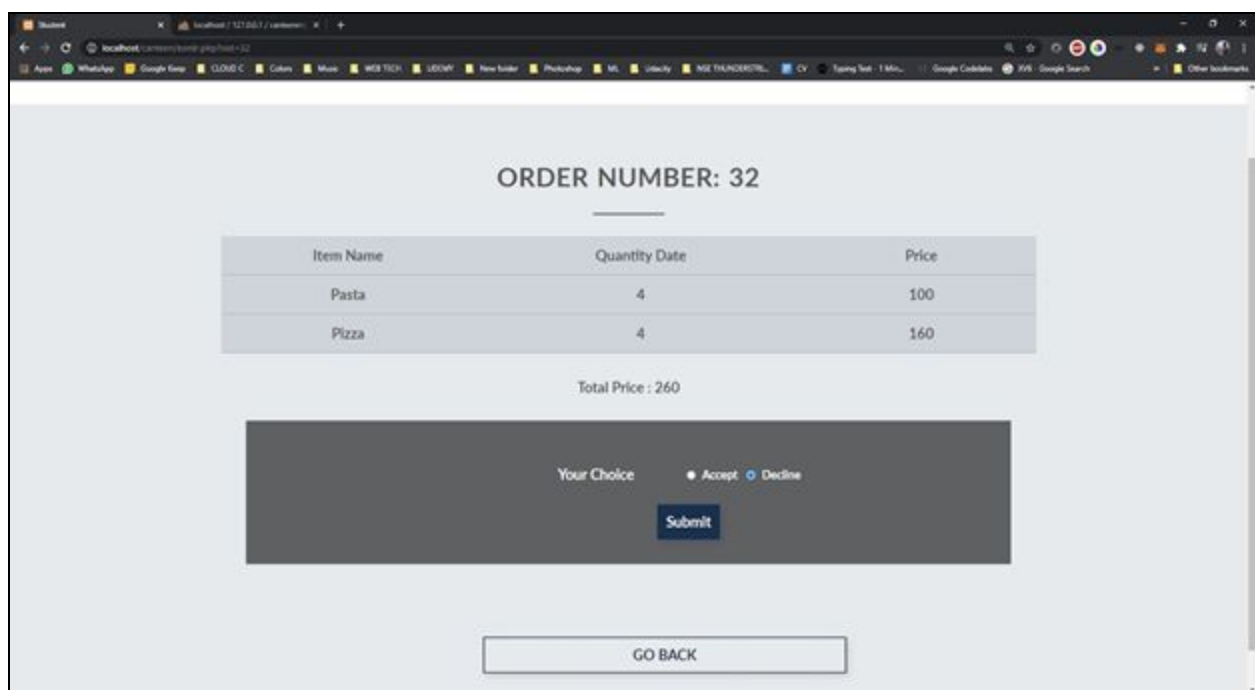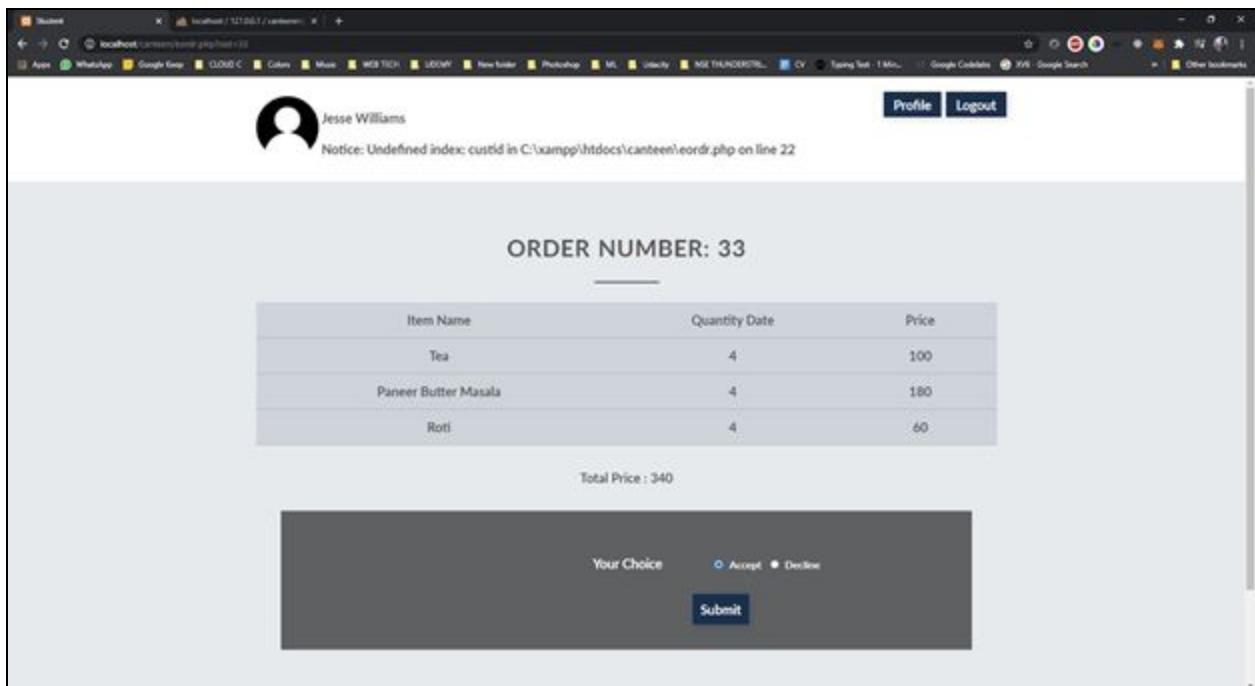
Once declined, the order comes in the list of "Order History" with the status of "Cancelled".

Order Number	Order Date	Price	Status
1	2020-01-24	220	Cancelled
3	2020-01-25	60	Completed
17	2020-02-26	100	Completed
18	2020-02-26	100	Completed
20	2020-02-27	20	Cancelled
22	2020-02-27	50	Cancelled
23	2020-02-27	200	Cancelled
24	2020-02-27	70	Completed
25	2020-02-27	90	Cancelled
26	2020-02-27	60	Completed
28	2020-02-27	180	Cancelled
32	2020-09-05	260	Cancelled

GO BACK   TODAY'S ORDER

This time the employee accepts the order (no. 33), for completion.

Jesse Williams
Notice: Undefined index: custid in C:\xampp\htdocs\canteen\eordr.php on line 22

Profile   Logout

ORDER NUMBER: 33

Item Name	Quantity Date	Price
Tea	4	100
Paneer Butter Masala	4	180
Roti	4	60

Total Price : 340

Your Choice   ○ Accept ● Decline

Submit

Vellore Institute of Technology, Vellore
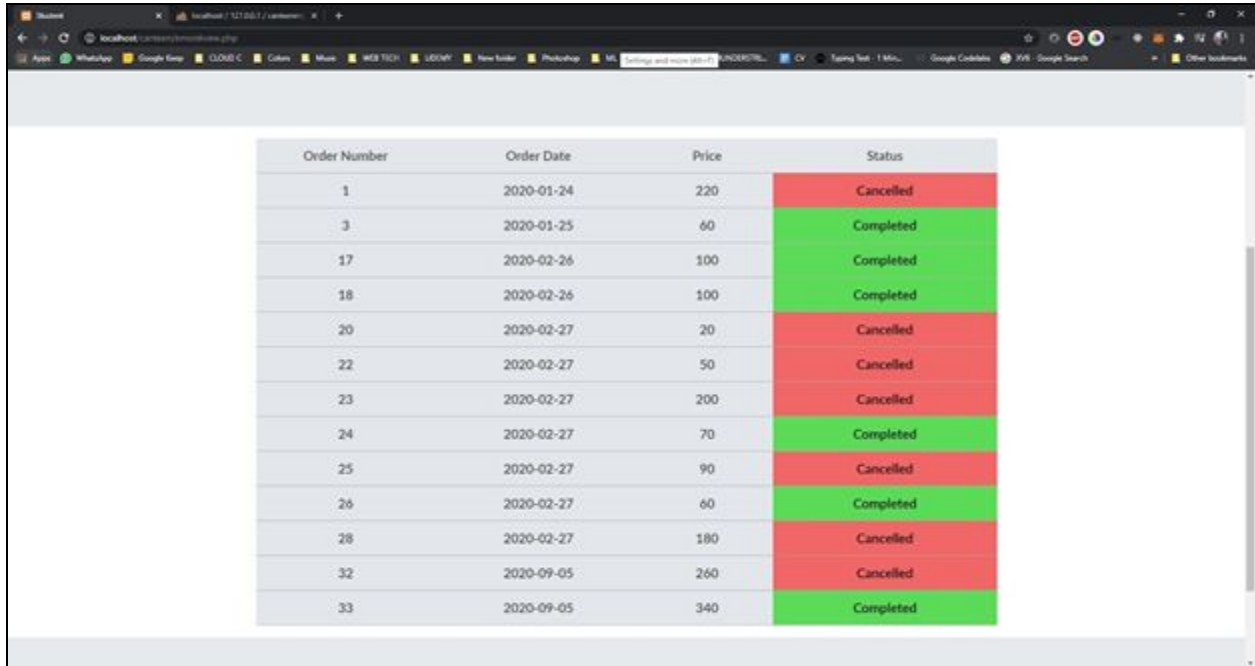
Once accepted the status of the order changes to "Processing" as does the status in the customer's login.
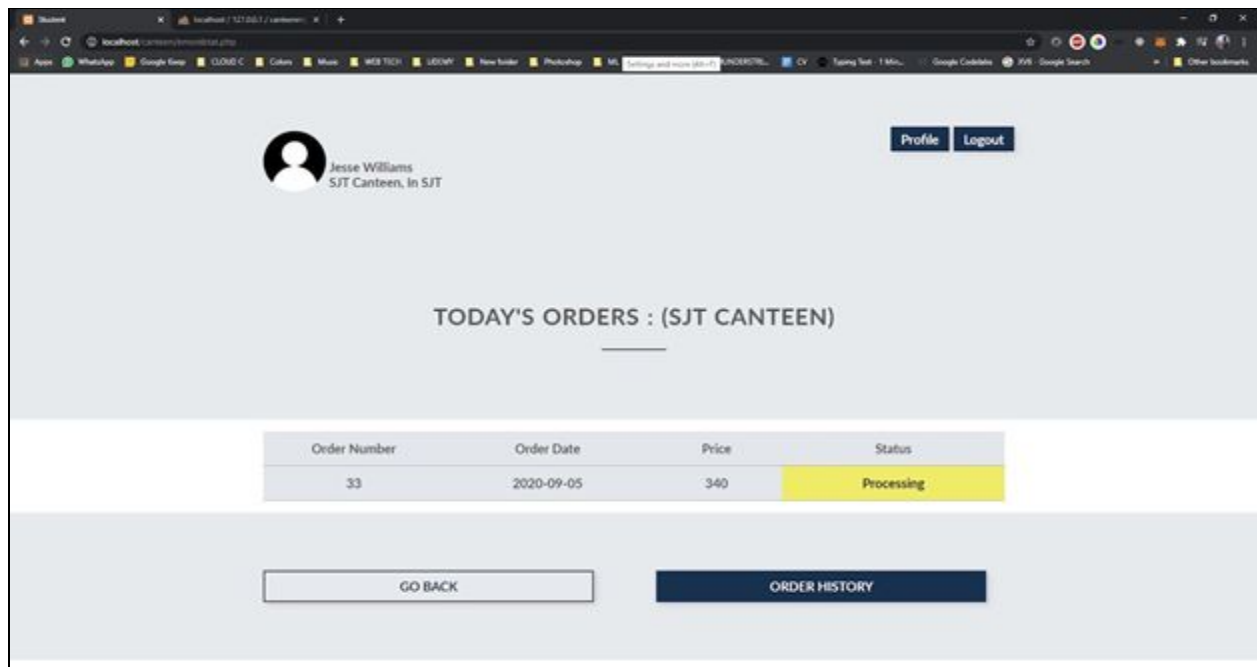
After the order is completed for pick-up, the employee chooses the option of "Finished", in today's order option, and the status changes from "Processing" to "Completed".

Vellore Institute of Technology, Vellore
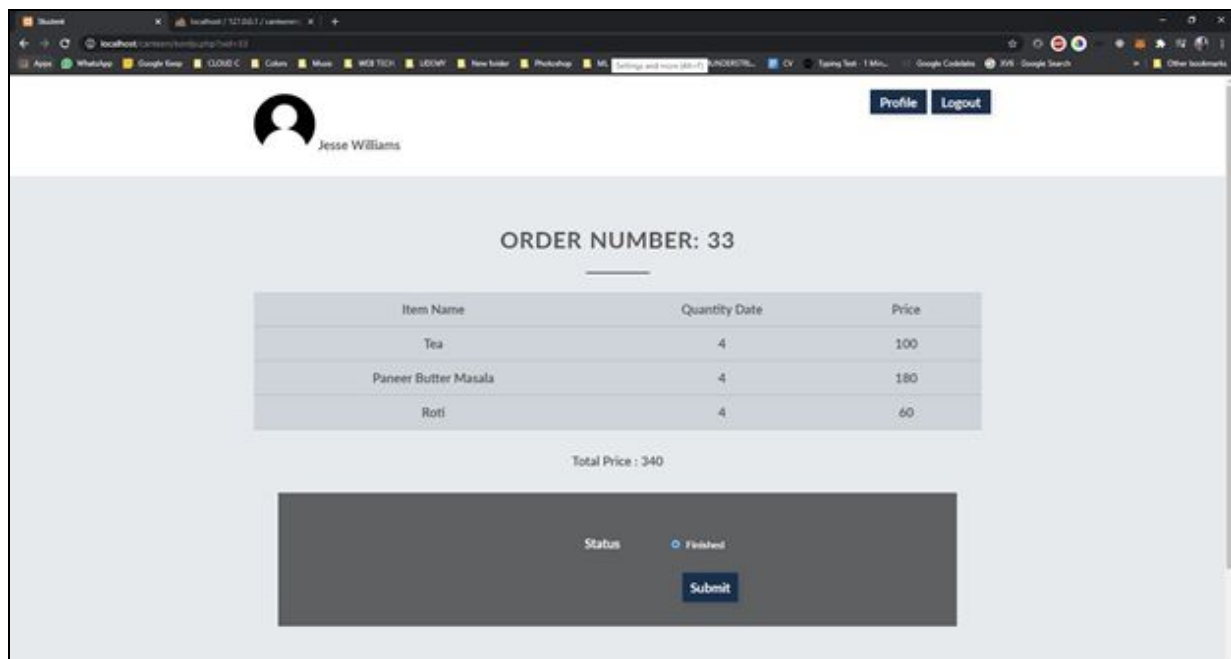
Once completed, the status in Order History shows "Completed" in the employee's login.

6. Conclusion, Limitations and Scope for Future Work

6.1. Conclusion

Standing in a queue when one is truly hungry is the most tedious job. A customer expects to get their meal on time to fulfil their hunger and to manage their time. A university where the population is immense and time very less, the thought of standing in a queue discourages students and teachers alike to have a proper meal in any of the canteens in the college. This website is a solution to it, as it curbs out the process of long queues and delivers the customers their food as soon as they reach their destination.

The feature of leaderboard in the employee's login encourages them to know who is at the top of the list and gives them a motivation to give their best to earn that position. The leader board, combined with the feedback, in the user's login gives them an honest opinion about which canteen is the best, it

gives them a knowledge about the mass opinion of which canteen is the most appealing.

6.2. Limitations

1. The website/ software does not offer much flexibility in terms of timings. If a certain customer misses the timing to book an order in the given window he/ she has to wait for the next window to open.
2. The software being a bit more inclined towards the chef being more powerful can be a cause of problems as they may cancel the order even if he has ideal conditions to prepare the order.
3. The canteen menu needs to be updated regularly considering the nature of our canteen menus and hence the overall system needs to be updated without fail.

6.3. Scope for Future Work

1. We can make the website more interactive by adding features like showing the user the calories associated with the food items.

2. Further we can add pop up notifications for notifying the user of the meal timings so that they do not tend to miss.
3. The website can be integrated with an offline application which will keep account of the user's details like calories, steps etc. and the food suggestions can be made on the basis of that.

7. References

https://www.w3schools.com/html/html_css.asp

https://make.wordpress.org/core/handbook/tutorials/installing-a-local-server/wamp server/   https://www.starlinkindia.com/Softwares/canteen-management-software/

http://bgil.in/Download_PDF/catloge/Canteen%20Management%20System-ppt.pdf

[1] B Muniraja, J Rajanikanth - In - Time Billing Process for Canteen Management System - International Journal of Emerging Trends in Engineering Research (IJETER), Vol. 3 No.6, Pages : 200 - 203 (2015).

[2] Cloud Based Canteen Management System by Tazeen Khan, 2 Daniel Yunus International Journal of Emerging Trends in Engineering Research.

[3] Shweta Shashikant Tanpure, Priyanka R.Shidankar, Madhura M. Joshi, "Automated Food Ordering System With Real Time Customer Feedback", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3 Issue 2, Feb 2013,Pune .

[4]Eng Wei Seng, "Canteen and Catering Management System", Project report submitted to the school of arts and science, Campbell University ,U.S.A

[5]"Cross-platform development for an online food delivery application" published in the year 2014 by "Faisal Bin Al Abid ; A. N. M. Rezaul Karim"

[6]Rameshwari Fegade, Gaurav Nandge, Pranjal Patil, Tejas Gaikwad, Prof. P.P. Bastawade5, CANTEEN MANAGEMENT ANDROID APPLICATION USING E-WALLET,International Research Journal of Engineering and Technology

[7] Canteen Food Ordering Android System,Abhishek Singh, Amit Tanwar, Aditya Sawant, Chaitanya Parulekar, Kunal Yadav, IT Department, MUMBAI University, International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169

[8] Ashutosh Bhargave,Niranjan Jadhav ,Apurva Joshi,Prachi Oke Prof.Mr. S.R. Lathe, "Digital Ordering System for Restaurant Using Android",International Journal of Scientific and Research Publications Issue 4,April 2013.

[9] J. Purnama, et al."Application of Order Management System in Restaurants", Seminar Nasional Aplikasi Teknologi Informasi 2007, Yogyakarta, 16 June 2007 (SNATI 2007) ISSN: 1907-5022.

[10]"Designing and Developing A PDA Food Ordering System Using Interaction Design Approach " published in the year 2009 by "Lim Tek Yong and Alexander Johnson"

[11]"Automated Food Ordering System with Interactive User Interface Approach " published in the year 2010 by "YongChai Tan and KienLoong Lee"

Appendix A
Coding

(As it was difficult to segregate the code on the basis of the features as it is a web interface, we've tried to present the code in the form of basic logins and major interface codes that we've written which would encompass the functionality codes.)

HOMEPAGE.PHP

```php
<!DOCTYPE html>
<?php
  include('sessioncust.php');
  $uname = $_SESSION['login_user'];
  $sql = "SELECT * from customer where custid='$uname'";
  $result = mysqli_query($db,$sql);
  $row = mysqli_fetch_array($result,MYSQLI_ASSOC);
?>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="css/style.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <title>Student</title>
    <style>
    .warning{
      color: #D8000C;
      background-color: #FFBABA;

    }
    .direction {
      transform: scale(0.95);
      color: #18314f;
      transition: transform 0.5s,  color 0.5s, background-color 0.5s;
    }
    .direction:hover, .direction:active {
      background-color: #3b79f5;
      color: white;
      border: 2px solid #3b79f5;
      border-radius: 4px;
      transform: scale(1.0);
```

Vellore Institute of Technology, Vellore

```
        }
    </style>
    </head>
    <body>
        <section class="section-plans">
            <div class="row">
                <div class="col span-10-of-12" style="display: flex;align-items: center;">
                    <img src="images/person.png" style="border-radius: 20%; width: 5vw; margin:0 10px">
                    <div style="display: inline-block; vertical-align: super"><?php echo
$row['name']?><br><?php echo $row['custid']?></div>
                </div>
                <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="profile.php">Profile</a></div>
                <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>


            </div>
        </section>
        <section class="section-cant" id="cities">
            <div class="row">
            <br><br><br>
                <h2>Our Canteens</h2>
            </div>
            <div class="row">
                <div class="col span-1-of-5 cities-box">
                    <img src="images/919.jpg"><br><br>
                    <h3><a id="asjt" href="alasjt.php" class="cant" style="text-decoration: none; border: 2px
solid #18314f; border-radius: 4px; padding: 2px 4px;">SJT Canteen</a></br></br><a id="asjt"
href="map.php" class="direction" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;">DIRECTIONS</a><br><br>Inside SJT</h3>
                    <p id="psjt" style="margin: auto 10px;text-align: center;"></p>
                </div>
                <div class="col span-1-of-5 cities-box">
                    <img src="images/943.jpg"><br><br>
                    <h3><a id="adc" href="aladc.php" class="cant" style="text-decoration: none; border: 2px
solid #18314f; border-radius: 4px; padding: 2px 4px;">DC</a></br></br><a id="aladc"
```

```
href="map1.php" class="direction" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;">DIRECTIONS</a><br><br>Near TT</h3>
                <p id="pdc" style="margin: auto 10px;text-align: center;"></p>
            </div>
            <div class="col span-1-of-5 cities-box">
              <img src="images/2015.jpg"><br><br>
              <h3><a id="afcnac" href="alanac.php" class="cant" style="text-decoration: none; border:
2px solid #18314f; border-radius: 4px; padding: 2px 4px;">FC (Non AC)</a></br></br><a
id="alanac" href="map2.php" class="direction" style="text-decoration: none; border: 2px solid
#18314f; border-radius: 4px; padding: 2px 4px;">DIRECTIONS</a><br><br>Near K Block</h3>
                <p id="pfcnac" style="margin: auto 10px;text-align: center;"></p>
            </div>
            <div class="col span-1-of-5 cities-box">
              <img src="images/2038.jpg"><br><br>
              <h3><a id="afcac" href="alaac.php" class="cant" style="text-decoration: none; border:
2px solid #18314f; border-radius: 4px; padding: 2px 4px;">FC (AC)</a></br></br><a id="alaac"
href="map3.php" class="direction" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;">DIRECTIONS</a><br><br>Near TT</h3>
                <p id="pfcac" style="margin: auto 10px;text-align: center;"></p>
            </div>
            <div class="col span-1-of-5 cities-box">
              <img src="images/2299.jpg"><br><br>
              <h3><a id="adar"href="aladar.php" class="cant" style="text-decoration: none; border:
2px solid #18314f; border-radius: 4px; padding: 2px 4px;">Darling</a></br></br><a id="aladar"
href="map4.php" class="direction" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;">DIRECTIONS</a><br><br>Gate 2</h3>
                <p id="pdar" style="margin: auto 10px;text-align: center;"></p>
            </div>
          </div>
        <div class="row">
        <br><br><br>
          <h2>Leaderboard</h2>
        </div>
        <div class="row">
          <div class="col span-1-of-5">
             
          </div>
          <div class="col span-1-of-5 cities-box">
            <?php
```

```php
            $best = "select cid, max(tot) from (select cid, sum(cost) as tot from ord group by cid) as
T";
                $res = mysqli_query($db,$best);
                $ans = mysqli_fetch_array($res, MYSQLI_ASSOC);
                $name = "select name from canteen where cid=".$ans['cid']."";
                $res = mysqli_query($db,$name);
                $nm = mysqli_fetch_array($res, MYSQLI_ASSOC);
            ?>
            <img src="images/<?php echo $ans['cid'] ?>.jpg"><br><br>
            <h3><div class="cant" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;"><?php echo $nm['name']
?></div><br><strong>SALES</strong><br>Total Sale : <?php echo $ans['max(tot)'] ?></h3>
        </div>
        <div class="col span-1-of-5">
             
        </div>
        <div class="col span-1-of-5 cities-box">
            <?php
                $mrate = "select max(avrat) from (select cid, sum(rating)/count(cid) as avrat from
feedback group by cid) as t";
                $m = mysqli_query($db,$mrate);
                $a = mysqli_fetch_array($m, MYSQLI_ASSOC);
                $rate = "select cid, sum(rating)/count(cid) as avrat from feedback group by cid";
                $res = mysqli_query($db,$rate);
                while($ans = mysqli_fetch_array($res, MYSQLI_ASSOC)){
                    if($ans['avrat']==$a['max(avrat)']){
                        $cid = $ans['cid'];
                        $name = "select name from canteen where cid=".$ans['cid']."";
                        $r = mysqli_query($db,$name);
                        $nm = mysqli_fetch_array($r, MYSQLI_ASSOC);
                        break;
                    }
                }
            ?>
            <img src="images/<?php echo $cid ?>.jpg"><br><br>
            <h3><div class="cant" style="text-decoration: none; border: 2px solid #18314f;
border-radius: 4px; padding: 2px 4px;"><?php echo $nm['name']
?></div><br><strong>SALES</strong><br>Total Rating : <?php echo round($a['max(avrat)'],2)
?></h3>
```

```
      </div>
      <div class="col span-1-of-5">
         
      </div>
    </div>
  </section>
  <section class="section-plans">
    <div class="row">
      <h2>DASHBOARD</h2>
    </div>
    <div class="row">
      <a style="text-decoration: none; color:#18314f;" href="stordstat.php">
        <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;">
          VIEW TODAY'S ORDERS
        </div>
      </a>
      <div
class="col">           
    </div>
      <a style="text-decoration: none; color: white;" href="stordview.php">
        <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;background-color: #18314f;">
          ORDER HISTORY
        </div>
      </a>
    </div>
    <div class="row">
      <a style="text-decoration: none; color: white;" href="givefeed.php">
        <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;background-color: #18314f;">
          GIVE FEEDBACK
        </div>
      </a>
      <div
class="col">            
    </div>
      <a style="text-decoration: none; color:#18314f;" href="viewfeed.php">
```

```
        <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;">
            VIEW FEEDBACK
        </div>
    </a>

</div>
</section>
<script>
    var today = new Date();
    // var time = today.getHours() + ":" + today.getMinutes() + ":" + today.getSeconds();
    var asjt=document.getElementById("asjt");
    var psjt=document.getElementById("psjt");

    var adc=document.getElementById("adc");
    var pdc=document.getElementById("pdc");

    var afcnac=document.getElementById("afcnac");
    var pfcnac=document.getElementById("pfcnac");

    var afcac=document.getElementById("afcac");
    var pfcac=document.getElementById("pfcac");

    var adar=document.getElementById("adar");
    var pdar=document.getElementById("pdar");

    document.getElementById("asjt").addEventListener("click",function(){
        if(!(today.getHours()>=10 && today.getHours()<20) ){
            asjt.setAttribute("href","javascript:void(0)");
            psjt.innerHTML="CANTEEN CLOSED";
            psjt.classList.add("warning");
        }

    });

    document.getElementById("adc").addEventListener("click",function(){
        if(!(today.getHours()>=12 && today.getHours()<20) ){
            adc.setAttribute("href","javascript:void(0)");
            pdc.innerHTML="CANTEEN CLOSED";
```

```javascript
                pdc.classList.add("warning");
            }

        });

        document.getElementById("afcnac").addEventListener("click",function(){
            if(!(today.getHours()>=10 && today.getHours()<20) ){
                afcnac.setAttribute("href","javascript:void(0)");
                pfcnac.innerHTML="CANTEEN CLOSED";
                pfcnac.classList.add("warning");
            }

        });

        document.getElementById("afcac").addEventListener("click",function(){
            if(!(today.getHours()>=10 && today.getHours()<20 )){
                afcac.setAttribute("href","javascript:void(0)");
                pfcac.innerHTML="CANTEEN CLOSED";
                pfcac.classList.add("warning");
            }

        });

        document.getElementById("adar").addEventListener("click",function(){
            if(today.getHours()>3 ){
                adar.setAttribute("href","javascript:void(0)");
                pdar.innerHTML="CANTEEN CLOSED";
                pdar.classList.add("warning");
            }

        });

    </script>
  </body>
</html>
```

EMPLOYEE ORDER VIEW.PHP

```php
<!DOCTYPE html>
<?php
  include('sessionemp.php');
  $uname = $_SESSION['login_user'];
  $sql = "SELECT * from employee where eid='$uname'";
  $result = mysqli_query($db,$sql);
  $row = mysqli_fetch_array($result,MYSQLI_ASSOC);
  $cid = $row['cid'];
  $s = "SELECT * from canteen where cid='$cid'";
  $res = mysqli_query($db,$s);
  $cant = mysqli_fetch_array($res,MYSQLI_ASSOC);
?>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="css/stordstatc.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <title>Student</title>
  </head>
  <body>
    <section class="section-plans">
      <div class="row">
        <div class="col span-10-of-12">
          <img src="images/person.png" style="border-radius: 20%; width: 5vw;">
          <div style="display: inline-block; vertical-align: super"><?php echo $row['name']?><br>
            <?php
              $nm=$cant['name'];
              $loc=$cant['location'];
              echo "$nm, $loc";
            ?></div>
        </div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="empprof.php">Profile</a></div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>

      </div>
    </section>
    <section class="section-plans">
```

```php
      <div class="row">
        <h2>Today's Orders : (<?php echo $nm; ?>)</h2>
      </div>
    </section>
    <section class="section-cant">
      <div class="row">
        <table>
          <tr>
            <td width=15 style="text-align: center;"><strong>Order Number</strong></td>
            <td width=15 style="text-align: center;"><strong>Order Date</strong></td>
            <td width=15 style="text-align: center;"><strong>Price</strong></td>
            <td width=15 style="text-align: center;"><strong>Status</strong></td>
          </tr>
          <?php
            $al = "select * from ord where cid='$cid'";
            $res = mysqli_query($db,$al);
            while($item = mysqli_fetch_array($res, MYSQLI_ASSOC)) {
              if(strcmp($item['status'],'Cancelled')==0){
                echo "<tr><td style=\"text-align: center;\">".$item['oid']."<td style=\"text-align:
center;\">".$item['odate']."<td style=\"text-align: center;\">".$item['cost']."</td>";
                echo "<td style=\"margin:10px; background: rgba(245, 70, 70, 0.8);color:black;
text-align: center;\"><a href='empordview.php?oid=".$item['oid']."' style=\"text-decoration:none;
color:black;\">Cancelled</a></td>";
                echo "</tr>";
              }
              else if(strcmp($item['status'],'Completed')==0){
                echo "<tr><td style=\"text-align: center;\">".$item['oid']."<td style=\"text-align:
center;\">".$item['odate']."<td style=\"text-align: center;\">".$item['cost']."</td>";
                echo "<td style=\"margin:10px; background: rgba(58, 216, 51, 0.8);color:black;
text-align: center;\"><a href='empordview.php?oid=".$item['oid']."' style=\"text-decoration:none;
color:black;\">Completed</a></td>";
                echo "</tr>";
              }
            }
          ?>
        </table>
      </div>
    </section>
    <section class="section-plans">
      <div class="row">
        <a style="text-decoration: none; color:#18314f;" href="emphome.php">
          <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;">
```

```
            GO BACK
        </div>
    </a>
    <div
class="col">            
    </div>
        <a style="text-decoration: none; color: white;" href="emordstat.php">
            <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(12, 10, 72, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;background-color: #18314f;">
                TODAY'S ORDER
            </div>
        </a>
    </div>
    </section>
  </body>
</html>
```

CANTEEN ORDER.PHP

```php
<!DOCTYPE html>
<?php

  include('sessioncust.php');
  require_once './vendor/autoload.php';

  use Twilio\Rest\Client;
  $uname = $_SESSION['login_user'];
  $sql = "SELECT * from customer where custid='$uname'";
  $result = mysqli_query($db,$sql);
  $row = mysqli_fetch_array($result,MYSQLI_ASSOC);

  if(!isset($_POST['submit']) && !isset($_POST['verify'])){
     $GLOBALS['random']=0;
     $_SESSION["random1"]=0;
     $GLOBALS['cost']=0;
  }

  $GLOBALS['output'] = 0;
  if(isset($_POST['verify'])){
     $GLOBALS['output'] =$_POST["otp"];
  }
```

```
?>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="css/style.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <title>SJT Canteen</title>
  </head>
  <style>
    #successmsg{

      text-align: center;
      width: 400px;
      margin: 20px auto;
      padding: 10px 10px;
    }
    .success{
      color: #270;
      background-color: #DFF2BF;
    }
    .warning{
      color: #D8000C;
      background-color: #FFBABA;
    }
  </style>
  <body>
    <section class="section-plans">
      <div class="row">
        <div class="col span-10-of-12">
          <img src="images/person.png" style="border-radius: 20%; width: 5vw;">
          <div style="display: inline-block; vertical-align: super"><?php echo
$row['name']?><br><?php echo $row['custid']?></div>
        </div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="profile.php">Profile</a></div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>

      </div>
```

Vellore Institute of Technology, Vellore

```php
    </section>
    <section class="section-features">
    <?php
      if(isset($_POST['verify'])){
        echo "<p id='successmsg'></p>";
      }
    ?>

      <div class="row">
        <h2>Get food fast &mdash; not fast food.</h2>
      <br><br><br>
        <p class="long-feat">
          Hello, We're a part of VITFoodServices (VITFS), your new premium
food-ordering-from-canteen service. We know you're always busy. No time for standing in long queues.
So let us take care of that, we're really good at it, we promise!
        </p>
      </div>
      <br><br><br>
      <div class="row">
        <div class="col span-1-of-4 box">
          <h3>Up to 365 days/year</h3>
          <p>
            Never wait in queues again! We really mean that. Our subscription plans include up to
365 days/year coverage. You can also choose to order more flexibly if that's your style.
          </p>
        </div>
        <div class="col span-1-of-4 box">
          <h3>Ready in 30 minutes</h3>
          <p>
            You're only thirty minutes away from your delicious and super healthy meals. We work
with the best chefs in each canteens to ensure that you're 100% happy.
          </p>
        </div>
        <div class="col span-1-of-4 box">
          <h3>100% organic</h3>
          <p>
            All our vegetables are fresh, organic and local. Animals are raised without added
hormones or antibiotics. Good for your health, the environment, and it also tastes better!
          </p>
        </div>
        <div class="col span-1-of-4 box">
          <h3>Order anything</h3>
          <p>
```

```php
                We don't limit your creativity, which means you can order whatever you feel like. You can
choose from our menu containing over 100 delicious meals. It's up to you!
            </p>
        </div>
    </div>
</section>
<section class="section-cant">
    <div class="row">
        <h2>ALAcarte</h2>
    </div>
    <div class="row">
        <form method="post" id="sjt" name="sjt" action="<?php $_PHP_SELF ?>">
        <table style="font-family: 'Lato','Arial', sans-serif;">
            <tr>
                <td width=150><strong>Item</strong></td>
                <td width=15><strong>Price (in Rupees)</strong></td>
                <td width=15><strong>Quantity</strong></td>
            </tr>
            <?php
                ob_start();
                $ala = "SELECT * from sjtalacarte";
                $res = mysqli_query($db,$ala);
                while($item = mysqli_fetch_array($res, MYSQLI_ASSOC)){
                    echo "<tr><td>".$item['name']."</td><td>".$item['price']."</td><td
align=\"center\"><input type=\"numeric\" class=\"btnsmall\" id=\"".$item['iid']."\" name
=\"".$item['iid']."\"></td>";
                }
                if(isset($_POST['Submit'])){
                    $ala = "SELECT * from sjtalacarte";
                    $res = mysqli_query($db,$ala);
                    $_SESSION['x'] = 0;
                    while($item = mysqli_fetch_array($res, MYSQLI_ASSOC)){
                        $it = $item['iid'];
                        $pr = $item['price'];
                        if($_POST[$it]!=NULL){
                            $_SESSION['ord'][$_SESSION['x']]=$it;
                            $_SESSION['pri'][$_SESSION['x']]=$pr;
                            $_SESSION['qty'][$_SESSION['x']++]=$_POST[$it];
                        }
                    }

                    $cost=0;
                    for($y=0;$y<$_SESSION['x'];$y++){
```

```php
            $cost = $cost+$_SESSION['pri'][$y]* $_SESSION['qty'][$y];

        }

        $_SESSION['cost1'] =$cost;
        $_SESSION['row1']=$row;

        // SENDING OTP EMAIL
        $GLOBALS['random']=rand(1000,9999);
        $_SESSION["random1"]=$GLOBALS['random'];
        require("./sendgrid-php/sendgrid-php.php");

        //GET USER EMAIL ID
        $customer = $row['custid'];
        $sql = "SELECT email FROM sauth WHERE  custid= '$customer'";
        $resultemail= mysqli_query($db,$sql);
        $emailid;
        if (mysqli_num_rows($resultemail) > 0) {
            while($rowData = mysqli_fetch_array($resultemail)){
                $emailid= $rowData["email"];
            }
        }



        //SENDING OTP
        $email = new \SendGrid\Mail\Mail();
        $email->setFrom("raghavjindal121000@gmail.com", "Example User");
        $email->setSubject("OTP Verification");
        $email->addTo(strval($emailid), "Example User");
        $OTP=$GLOBALS['random'];
        $email->addContent(
            "text/html", "<strong> $OTP  is your One Time Password for Confirming your
Order</strong>"
        );

        $sendgrid = new
\SendGrid('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'
);
        ////////////////////////////
        //PHONE SMS- WORKING FOR VERIFIED NUMBERS   /////////
        //GET PHONE NUMBER
        // $customer = $row['custid'];
```

```php
            // $sql = "SELECT phone FROM customer WHERE  custid= '$customer'";
            // $resultphone= mysqli_query($db,$sql);
            // $phone;
            // if (mysqli_num_rows($resultphone) > 0) {
            //    while($rowData = mysqli_fetch_array($resultphone)){
            //       $phone= $rowData["phone"];
            //    }
            // }

            // Find your Account Sid and Auth Token at twilio.com/console
            // DANGER! This is insecure. See http://twil.io/secure
            // $sid   = "PUT SID here";
            // $token  = "PUT API TOKEN HERE";
            // $twilio = new Client($sid, $token);

            // $message = $twilio->messages
            //            ->create("+91".strval($phone),
            //                [
            //                    "body" => "$OTP  is your One Time Password for Confirming
your Order",
            //                    "from" => "+12693593377"
            //                ]
            //            );



            // print($message->sid);

            ///////////////////////////

            try {
               $response = $sendgrid->send($email);
            }
            catch (Exception $e) {
               // echo 'Caught exception: '. $e->getMessage() ."\n";
            }



            header("Location: http://localhost/canteen/verify.php");

        }
    ?>
```

```
        </table>
        <div class="section-plans">
        <div class="row">
        <a style="text-decoration: none; color:#18314f;" href="homepage.php">
            <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;font-family: 'Lato','Arial',
sans-serif;font-weight: 300;font-size: 20px;">
                GO BACK
            </div>
        </a>
        <div class="col">
             &nbs
p;  </div>
                <button class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(12, 10, 72, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;background-color: #18314f; color: white;
font-family: 'Lato','Arial', sans-serif;font-weight: 300;font-size: 20px;" type="submit" id="Submit"
name="Submit" for="sjt">
                CONTINUE
            </button>
        </div>
        </div>
        </form>
        <p id="info"><?php


                if(isset($_POST['verify'])){

                    if($GLOBALS['output']==$_SESSION['random1']){
                        $row=$_SESSION['row1'];
                        if($row['wallet']>=$_SESSION['cost1']){
                            echo "<script>alert('Order Placed!');</script>";
                            echo "<script>
                                var msg=document.getElementById('successmsg');
                                msg.innerHTML='Order Placed</br>';
                                msg.classList.add('success');
                            </script>";

                            $date = date("Y-m-d");
                            $cust = $row['custid'];
                            $cost1=$_SESSION['cost1'];
                            $add = "INSERT into ord(cid,custid,odate,cost,status) values
('919','$cust','$date','$cost1','Received')";
                            $retval = mysqli_query($db,$add);
                            $m = mysqli_query($db,"select max(oid) from ord");
```

```php
                $max = mysqli_fetch_array($m,MYSQLI_ASSOC);
                $oid = $max['max(oid)'];
                for($y=0;$y<$_SESSION['x'];$y++){
                    $ord= $_SESSION['ord'];
                    $qty= $_SESSION['qty'];
                    $add = "insert into orderdet values('$oid',' $ord[$y]',' $qty[$y]')";
                    $retval = mysqli_query($db,$add);
                }
                $balance=$row['wallet']-$cost1;
                $add="update customer set wallet='$balance' where custid='$cust'";
                $retval = mysqli_query($db,$add);

            }
            else{
                echo "<script>alert('Not enough Balance in your wallet');</script>";
            }
        }else{
            echo "<script>alert('The entered OTP is invalid');</script>";
            echo "<script>
                var msg=document.getElementById('successmsg');
                msg.innerHTML='Invalid OTP</br>';
                msg.classList.add('warning');
                </script>";
        }
    }

    ?></p>
    </div>
    </section>
</body>
</html>
```

ORDERING PROCESS

```php
<!DOCTYPE html>
<?php
include('sessionemp.php');
$uname = $_SESSION['login_user'];
$sql = "SELECT * from employee where eid='$uname'";
$result = mysqli_query($db,$sql);
$row = mysqli_fetch_array($result,MYSQLI_ASSOC);
```

Vellore Institute of Technology, Vellore

```php
    $oid = $_GET['oid'];
?>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="css/stordstatc.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <title>Student</title>
  </head>
  <body>
    <section class="section-cant">
      <div class="row">
        <div class="col span-10-of-12">
          <img src="images/person.png" style="border-radius: 20%; width: 5vw;">
          <div style="display: inline-block; vertical-align: super"><?php echo
$row['name']?><br><?php /*echo $row['custid']*/?></div>
        </div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="profile.php">Profile</a></div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>

      </div>
    </section>
    <section class="section-plans">
      <div class="row">
        <h2>Order Number: <?php
            echo $oid;
          ?></h2>
      </div>
      <div class="row">
        <table>
          <tr>
            <td width=15 style="text-align: center;"><strong>Item Name</strong></td>
            <td width=15 style="text-align: center;"><strong>Quantity Date</strong></td>
            <td width=15 style="text-align: center;"><strong>Price</strong></td>
          </tr>
          <?php
            $eid = $row['eid'];
            $c = "select * from ord where oid='$oid'";
            $res = mysqli_query($db,$c);
```

```php
$det = mysqli_fetch_array($res,MYSQLI_ASSOC);
$q = "SELECT * from orderdet where oid='$oid'";
$r = mysqli_query($db,$q);
while($item = mysqli_fetch_array($r,MYSQLI_ASSOC)){
   $iid = $item['iid'];
   if($det['cid']==919){
      $s = "select * from sjtalacarte where iid='$iid'";
      $quer = mysqli_query($db,$s);
      $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
      echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
   }
   else if($det['cid']==943){
      $s = "select * from dcalacarte where iid='$iid'";
      $quer = mysqli_query($db,$s);
      $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
      echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
   }
   else if($det['cid']==2015){
      $s = "select * from nacalacarte where iid='$iid'";
      $quer = mysqli_query($db,$s);
      $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
      echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
   }
   else if($det['cid']==2038){
      $s = "select * from acalacarte where iid='$iid'";
      $quer = mysqli_query($db,$s);
      $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
      echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
   }
   else{
      $s = "select * from dalacarte where iid='$iid'";
      $quer = mysqli_query($db,$s);
      $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
```

```php
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                }
            }
            if(isset($_POST['Submit'])){
                if($_POST['rating']==0){
                    $l = "update ord set status='Completed', eid='$eid' where oid='$oid'";
                    $ret = mysqli_query($db,$l);
                    header('Location: emphome.php');
                }
            }
        ?>
    </table>
    <div style="text-align:center; margin-top: 2vw;">Total Price : <?php echo $det['cost'];
?></div>
    <div style="border: 2px black; margin: 2vw; margin-bottom: -4vw; background-color:rgba(0,
0, 0, 0.59); padding:2vw; color:white;">
        <form method="post" id="sjt" name="sjt" action="<?php $_PHP_SELF ?>">
            <label for="rating" style="font-family: 'Lato','Arial', sans-serif;font-weight:
300;font-size: 20px; margin-left:23vw;">Status</label>
            <input type="radio" name="rating" value=0 style="margin:2vw 0.5vw 2vw
4vw;">Finished
            <input type="submit" for="sjt" value="Submit" id="Submit" name="Submit"
style="box-shadow: 4px 4px 10px rgba(12, 10, 72, 0.15); text-align: center; padding: 1%;border: 2px
solid #18314f;background-color: #18314f; color: white; font-family: 'Lato','Arial',
sans-serif;font-weight: 300;font-size: 20px;margin-left:31vw;"><br>
        </form>
    </div>
    </div>
    </section>
    <section class="section-plans">
    <div class="row">
        <a style="text-decoration: none; color:#18314f;" href="emphome.php">
        <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;margin-left:21vw;">
            GO BACK
        </div>
        </a>
    </div>
    </section>
</body>
</html>
```

GIVE FEEDBACK

```php
<!DOCTYPE html>
<?php
  include('sessioncust.php');
  $uname = $_SESSION['login_user'];
  $sql = "SELECT * from customer where custid='$uname'";
  $result = mysqli_query($db,$sql);
  $row = mysqli_fetch_array($result,MYSQLI_ASSOC);
?>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="css/style.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <title>SJT Canteen</title>
  </head>
  <body>
    <section class="section-plans">
      <div class="row">
        <div class="col span-10-of-12">
          <img src="images/person.png" style="border-radius: 20%; width: 5vw;">
          <div style="display: inline-block; vertical-align: super"><?php echo
$row['name']?><br><?php echo $row['custid']?></div>
        </div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="profile.php">Profile</a></div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>


      </div>
    </section>
    <section class="section-cant">
      <div class="row">
        <h2>GIVE FEEDBACK</h2>
      </div>
      <div class="row">
        <form method="post" id="sjt" name="sjt" action="<?php $_PHP_SELF ?>">
```

```php
<?php
    $custid = $row['custid'];
    if(isset($_POST['Submit'])){
        $cid = $_POST['canteen'];
        $rat = $_POST['rating'];
        $fd = $_POST['comment'];
        if(1>0){
        $add = "INSERT into feedback(cid,custid,content,rating) values
('$cid','$custid','$fd','$rat')";
        $retval = mysqli_query($db,$add);
        }
    }
?>
<label for="canteen" style="font-family: 'Lato','Arial', sans-serif;font-weight: 300;font-size:
20px; margin-left:4vw;">CHOOSE CANTEEN</label>
<select name="canteen" id="canteen" style="margin:2vw 4vw; width:60vw;">
    <option value="919">SJT Canteen</option>
    <option value="943">DC</option>
    <option value="2015">FC (Non AC)</option>
    <option value="2038">FC (AC)</option>
    <option value="2299">Darling</option>
</select>
<br>
<label for="comment" style="font-family: 'Lato','Arial', sans-serif;font-weight:
300;font-size: 20px; margin-left:4vw;">Your Feedback</label>
<input type="text" placeholder="Enter your feedback here" id="comment"
name="comment" style="margin:2vw 4vw; width:60vw;" required>
<br>
<label for="rating" style="font-family: 'Lato','Arial', sans-serif;font-weight: 300;font-size:
20px; margin-left:4vw;">Your Rating<br></label>
<input type="radio" name="rating" value=0 style="margin:2vw 0.5vw 2vw 4vw;">0
<input type="radio" name="rating" value=1 style="margin:2vw 0.5vw 2vw 0.5vw;">1
<input type="radio" name="rating" value=2 style="margin:2vw 0.5vw 2vw 0.5vw;">2
<input type="radio" name="rating" value=3 style="margin:2vw 0.5vw 2vw 0.5vw;">3
<input type="radio" name="rating" value=4 style="margin:2vw 0.5vw 2vw 0.5vw;">4
<input type="radio" name="rating" value=5 style="margin:2vw 0.5vw 2vw 0.5vw;">5
<input type="radio" name="rating" value=6 style="margin:2vw 0.5vw 2vw 0.5vw;">6
<input type="radio" name="rating" value=6 style="margin:2vw 0.5vw 2vw 0.5vw;">7
<input type="radio" name="rating" value=8 style="margin:2vw 0.5vw 2vw 0.5vw;">8
<input type="radio" name="rating" value=9 style="margin:2vw 0.5vw 2vw 0.5vw;">9
<input type="radio" name="rating" value=10 style="margin:2vw 0.5vw 2vw 0.5vw;"
checked>10<br>
```

```html
                <input type="submit" for="sjt" value="Submit" id="Submit" name="Submit"
style="box-shadow: 4px 4px 10px rgba(12, 10, 72, 0.15); text-align: center; padding: 1%;border: 2px
solid #18314f;background-color: #18314f; color: white; font-family: 'Lato','Arial',
sans-serif;font-weight: 300;font-size: 20px;margin-left:35vw; margin-botton:4vw;"><br>
            </form>
        </div>
    </section>
    <section class="section-plans">
        <div class="row">
            <a style="text-decoration: none; color:#18314f;" href="homepage.php">
                <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;">
                    GO BACK
                </div>
            </a>
            <div
class="col">            
    </div>
            <a style="text-decoration: none; color: white;" href="viewfeed.php">
                <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(12, 10, 72, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;background-color: #18314f;">
                    VIEW FEEDBACK
                </div>
            </a>
        </div>
    </section>
  </body>
</html>
```

ORDERS

```php
<!DOCTYPE html>
<?php
  include('sessionemp.php');
  $uname = $_SESSION['login_user'];
  $sql = "SELECT * from employee where eid='$uname'";
  $result = mysqli_query($db,$sql);
  $row = mysqli_fetch_array($result,MYSQLI_ASSOC);
?>
<html>
  <head>
```

```html
    <link rel="stylesheet" type="text/css" href="css/stordstatc.css">
    <link href="https://fonts.googleapis.com/css?family=Montserrat" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="css/grid.css">
    <title>Student</title>
  </head>
  <body>
    <section class="section-cant">
      <div class="row">
        <div class="col span-10-of-12">
          <img src="images/person.png" style="border-radius: 20%; width: 5vw;">
          <div style="display: inline-block; vertical-align: super"><?php echo $row['name']?></div>
        </div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="profile.php">Profile</a></div>
        <div class="col span-1-of-12"><a style="text-decoration: none; background-color: #18314f;
padding: 10% 20%; color: white; vertical-align: text-bottom; margin-top: 20%; margin-bottom: 20%;
box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15)" href="index.php">Logout</a></div>

      </div>
    </section>
    <section class="section-plans">
      <div class="row">
        <h2>Order Number: <?php
            echo $oid;
          ?></h2>
      </div>
      <div class="row">
        <table>
          <tr>
            <td width=15 style="text-align: center;"><strong>Item Name</strong></td>
            <td width=15 style="text-align: center;"><strong>Quantity Date</strong></td>
            <td width=15 style="text-align: center;"><strong>Price</strong></td>
          </tr>
          <?php
            $c = "select * from ord where oid='$oid'";
            $res = mysqli_query($db,$c);
            $det = mysqli_fetch_array($res,MYSQLI_ASSOC);
            $q = "SELECT * from orderdet where oid='$oid'";
            $r = mysqli_query($db,$q);
            while($item = mysqli_fetch_array($r,MYSQLI_ASSOC)){
              $iid = $item['iid'];
              if($det['cid']==919){
```

Vellore Institute of Technology, Vellore

```php
                    $s = "select * from sjtalacarte where iid='$iid'";
                    $quer = mysqli_query($db,$s);
                    $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                    }
                    else if($det['cid']==943){
                    $s = "select * from dcalacarte where iid='$iid'";
                    $quer = mysqli_query($db,$s);
                    $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                    }
                    else if($det['cid']==2015){
                    $s = "select * from nacalacarte where iid='$iid'";
                    $quer = mysqli_query($db,$s);
                    $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                    }
                    else if($det['cid']==2038){
                    $s = "select * from acalacarte where iid='$iid'";
                    $quer = mysqli_query($db,$s);
                    $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                    }
                    else{
                    $s = "select * from dalacarte where iid='$iid'";
                    $quer = mysqli_query($db,$s);
                    $ala = mysqli_fetch_array($quer,MYSQLI_ASSOC);
                    echo "<tr><td style=\"text-align: center;\">".$ala['name']."</td><td
style=\"text-align: center;\">".$item['qty']."</td><td style=\"text-align:
center;\">".$item['qty']*$ala['price']."</td></tr>";
                    }
                    }
                ?>
            </table>
```

```html
        <div style="text-align:center; margin-top: 2vw;">Total Price : <?php echo $det['cost'];
?></div>
      </div>
    </section>
    <section class="section-plans">
      <div class="row">
        <a style="text-decoration: none; color:#18314f;" href="emphome.php">
          <div class="col span-5-of-11" style="box-shadow: 4px 4px 10px rgba(72, 39, 10, 0.15);
text-align: center; padding: 1%;border: 2px solid #18314f;margin-left:21vw;">
            GO BACK
          </div>
        </a>
      </div>
    </section>
  </body>
</html>
```