

**A REPORT ON
CANTEEN MANAGEMENT SYSTEM**

**SUBMITTED BY
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**IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS OF THE
PROGRAM**

PROBLEM SOLVING AND C PROGRAMMING



**DEPARTMENT OF
Applied Mathematics and Computational
Sciences- DS, PSG COLLEGE OF
TECHNOLOGY
COIMBATORE.**

1. LETTER OF TRANSMITTAL

December 29,2020

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MSc Data Science

1st year

PSG College of Technology Coimbatore.

Dr. M.Thilaga

Department of Applied Mathematics and Computational
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PSG College of Technology
Coimbatore.

Dear Mam:

The following report entitled “Canteen Management” is submitted in the partial fulfillment of the requirements of the program ‘Problem Solving and C Programming’.

The purpose of this project report is to inform about our package that we have coded using C programming language to help and automate the currently existing manual canteen management system.

Yours truly,
Karthic Sreenivas .A

2. ACKNOWLEDGEMENTS

Presentation inspiration and motivation have always played a key role in the success of any venture.

I express my sincere thanks to Dr. R. NADARAJAN, Head of the Department.

I pay my deep sense of gratitude to Dr. M.THILAGA, Tutor who encouraged me to the highest peak and to provide me the opportunity to prepare the project. I am immensely obliged to my friends for their elevating inspiration, encouraging guidance and kind supervision in the completion of my project.

I feel to acknowledge my indebtedness and deep sense of gratitude to my guide Dr. M.THILAGA, Department of whose valuable guidance and kind supervision given to me throughout the course which shaped the present work as its show.

Last, but not the least, many thanks to the LAB ADMIN, who gave the permission to use all required equipment and the necessary materials to complete some specific tasks related to my report. I have to appreciate the guidance given by other faculties to complete my report.

Yours truly,
Sudharsan Aravind V.

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3.INTRODUCTION

The main objective of the canteen management system is to automate the existing manual system with the help of computerized software, so that valuable data can be stored for longer period with easy accessing and manipulation of the same.

The registered user can access the account with valid credentials. User can surf the various food items which are available in the form of a food ordering menu. Once the user has successfully placed his/her order, they would be able to view their order.

In Canteen Management System, the Admin can handle the functionalities like adding new food items, modifying the other details of the food items based on availability. Admin has the authority to view all the orders up to date, the available stock at that point of time and make necessary changes.

Benefits of Using Canteen Management Software

- Helps in advance planning
- Reduces Administrative work
- Saves time & improves employee efficiency
- Reduces Wastage of food items
- Provides a fast and efficient service
- Increases customer satisfaction
- Keeps track of the records

4.LIST OF FUNCTIONS USED

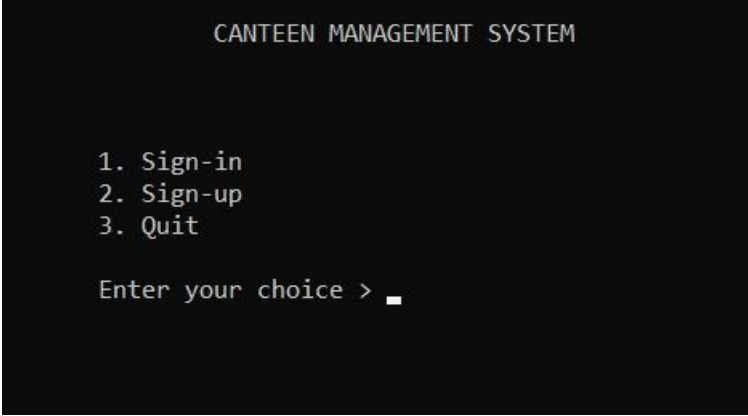
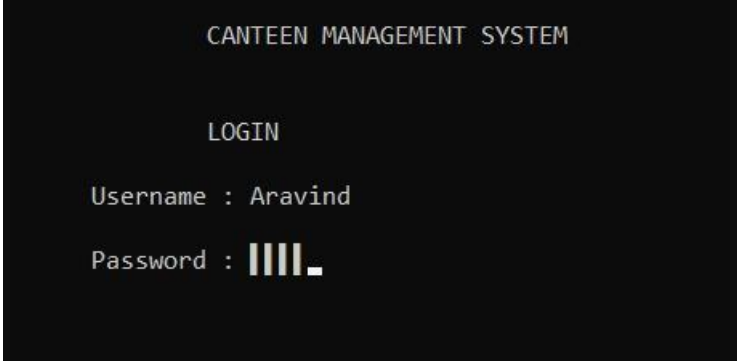
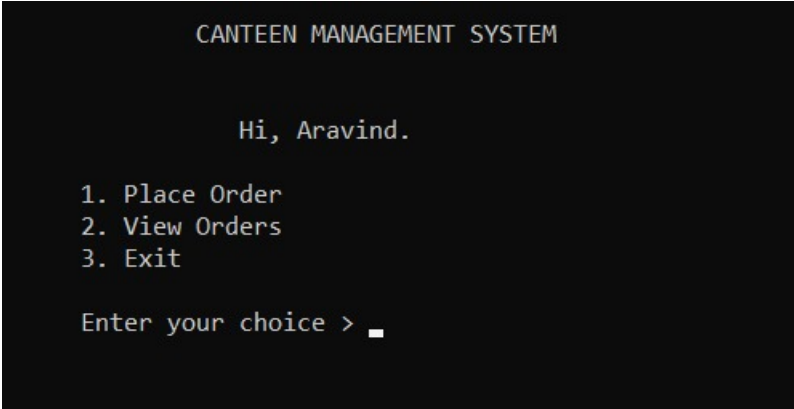
FUNCTION NAME	USES
INDEX.C	
<code>getusername(char *user)</code> Return type: void	Gets username as string from the user and stores it in the address of the variable passed to it.
<code>getpassword(char *pass)</code> Return type: void	Gets password as string from the user and stores it in the address of the variable passed to it. It morphs the characters entered by the user and thus providing higher security.
<code>signup()</code> Return type: void	It gets username and password and type of account(user/admin) from the user, and checks whether the username is unique. If the username is unique, a new account is added to the database,

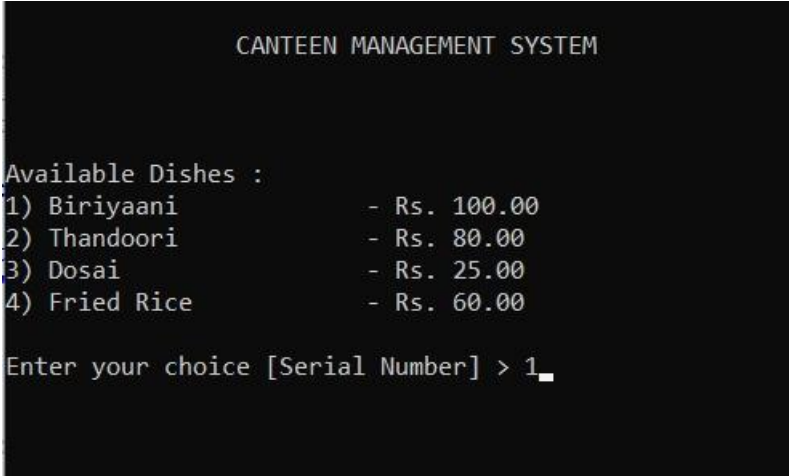
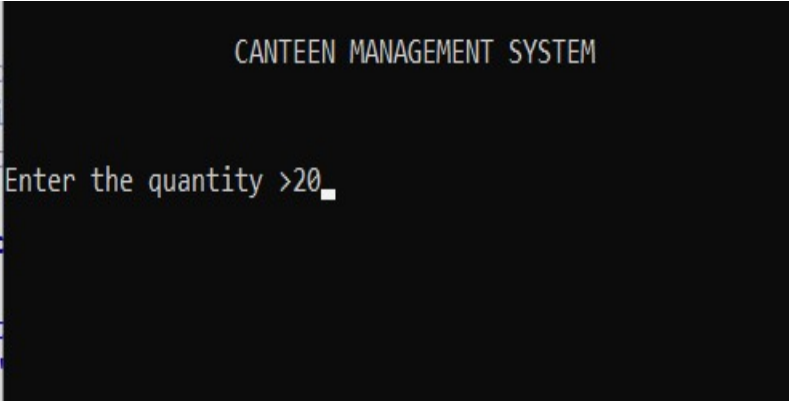
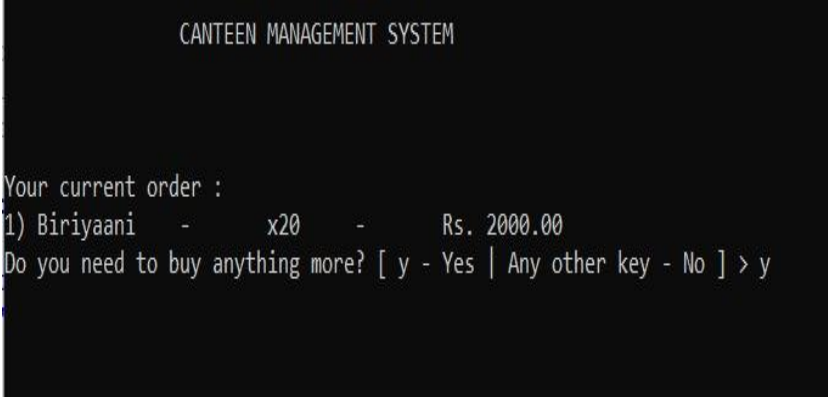
	otherwise, the account is not added and a warning message is displayed.
<p><code>login()</code></p> <p>Return type: void</p>	<p>It accepts the required credentials from the already existing user and checks if the credentials are correct.</p> <p>If correct, it directs the user to the menu page.</p> <p>If the login credentials are invalid, then it directs the user back to the login page again.</p>
IO.H	
<p><code>mainScreen()</code></p> <p>Return type: void</p>	<p>It clears the screen and displays the title of the page.</p>
<p><code>display_dishes()</code></p> <p>Return type: void</p>	<p>It displays all the available dishes.</p>

<pre> modify(char new_data[25], int choice, int sno) Return type: Integer (0 – dish does not exist 1 – dish exists in the database) </pre>	<pre> new_data – gets the new value that the user wants to modify. choice – (1 – to change the dish name) (2 – it updates the database by subtracting the quantity of the item(s) that the user has purchased) (3 – changes price of the dish) (4 – it updates the database by adding the quantity of the item(s) that the user has purchased) sno – it is the serial number of the respective item. </pre>
<pre> records(char filename[25]) Return type: integer </pre>	<pre> It accepts the filename as a string and returns the total number of record in that file. </pre>
<pre> search(char username[50], </pre>	<pre> After accepting the credentials from the </pre>

<p><code>char password[23])</code></p> <p>Return type: <code>char</code></p> <p>('u' – The credentials corresponds to a "user" 'a' – The credentials corresponds to an "admin" 'p' – Incorrect password 'n' – The user doesn't exist)</p>	<p>user, it checks for the availability and credibility of the account.</p>
<p>Dish (<code>char username[50]</code>)</p> <p>Return type: <code>void</code></p>	<p>Displays the dish ordering page</p>
<p>Orders (<code>char username[50]</code>, <code>int isAdmin</code>)</p> <p>Return type: <code>void</code></p>	<p>Display the orders. Displays all the orders to an admin, But for an user displays only the orders placed by the respective user alone.</p>
<p><code>remove_dish</code> (<code>int sno</code>)</p> <p>Return type: <code>integer</code></p>	<p>Removes the dish from the database that contains the serial number given as input by the admin.</p>

OUTPUTS

OUTPUT	DESCRIPTION OF OUTPUT
	Home page
	User login page
	Page to place new orders or view previously placed orders

	<p>Page to view available dishes</p>
	<p>We can enter the quantity of item that we want to order</p>
	<p>Shows our order and asks the user if they want to order more items</p>

```
CANTEEN MANAGEMENT SYSTEM

Available Dishes :
1) Biriyaani          - Rs. 100.00
2) Thandoori          - Rs. 80.00
3) Dosai              - Rs. 25.00
4) Fried Rice         - Rs. 60.00

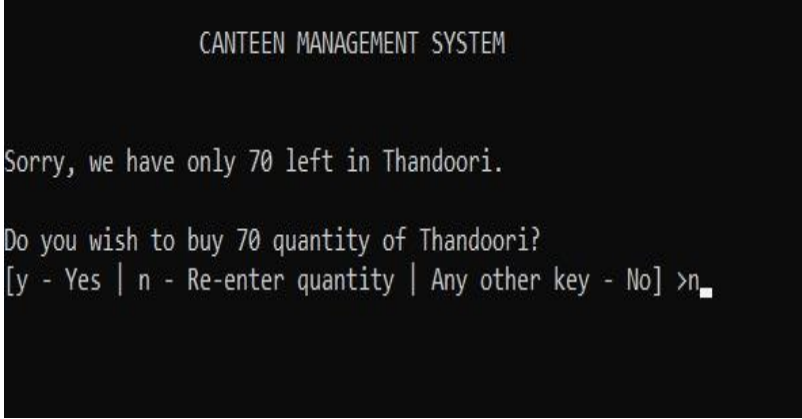

Enter your choice [Serial Number] > 2
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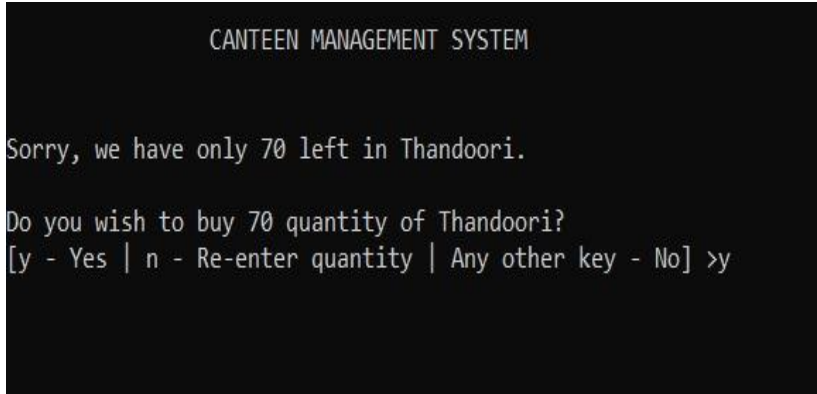
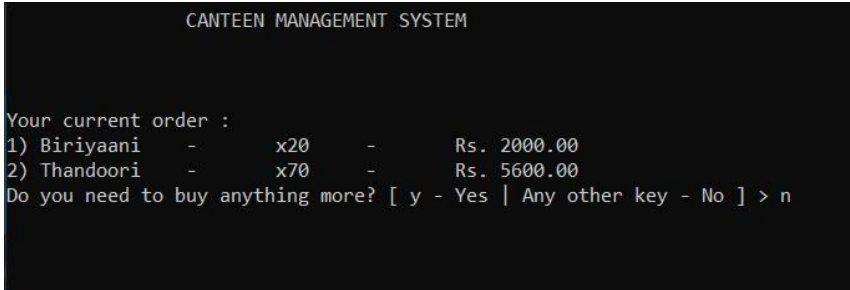
Here, the user can order more items.

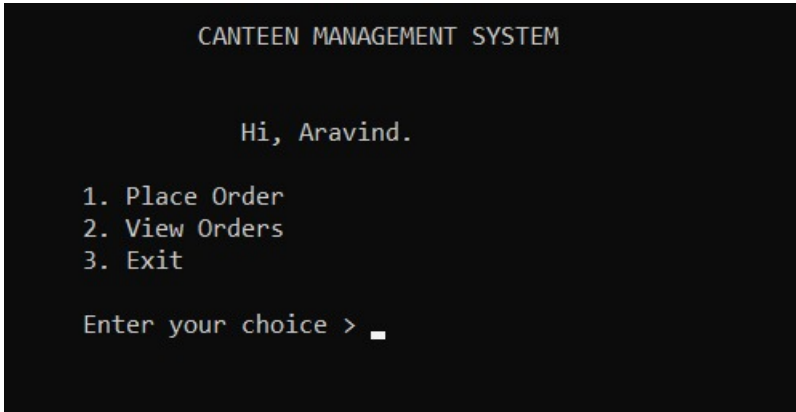
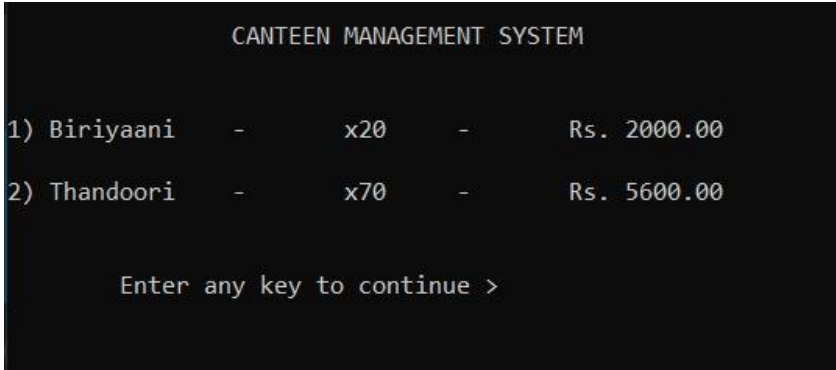
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CANTEEN MANAGEMENT SYSTEM

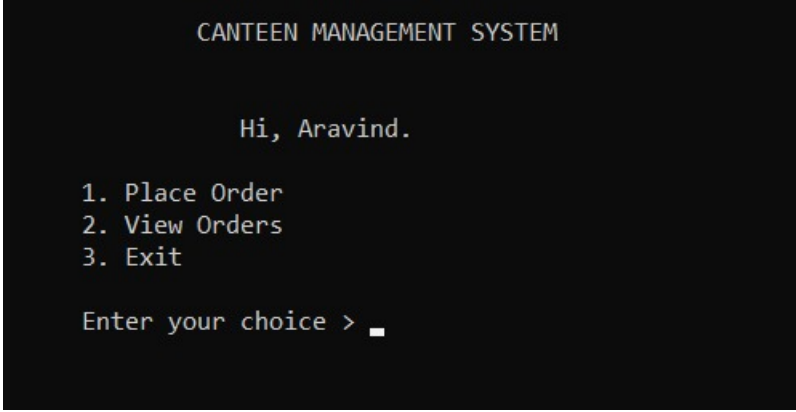
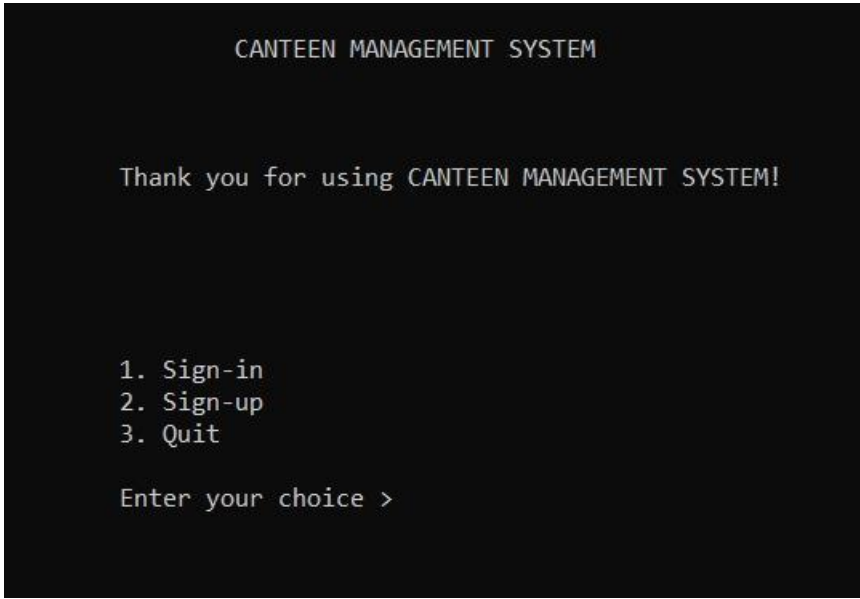
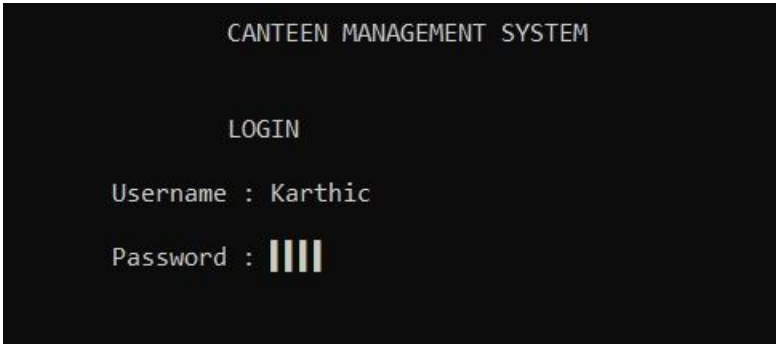
Enter the quantity >300
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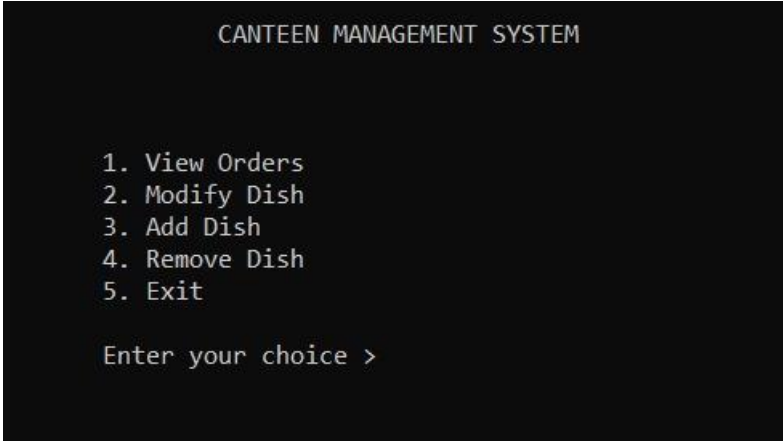
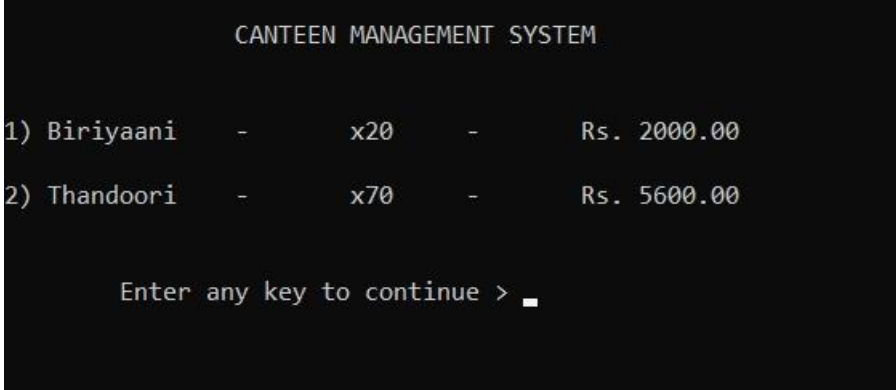
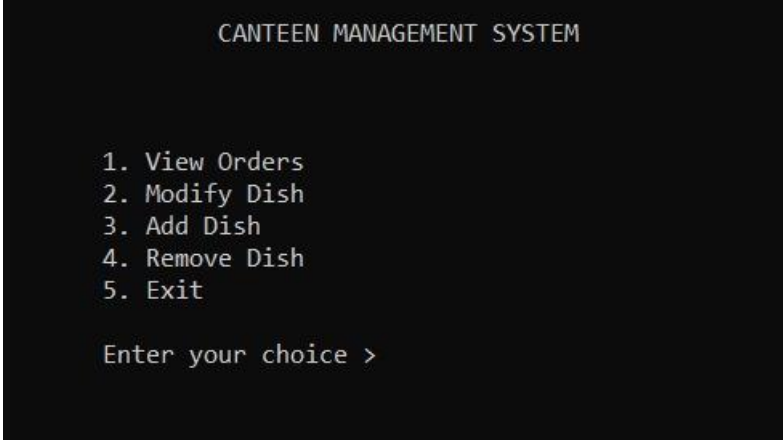
Here, the user has entered the quantity desired as 300 which is way more than the stock available at present.


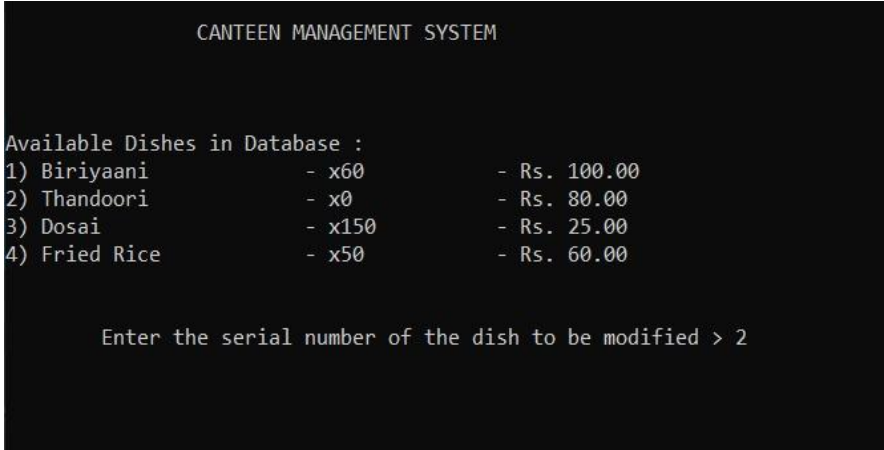
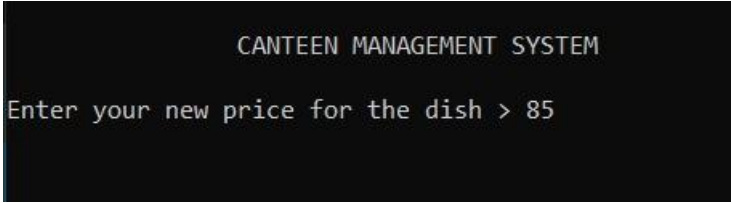
 <pre> CANTEEN MANAGEMENT SYSTEM Sorry, we have only 70 left in Thandoori. Do you wish to buy 70 quantity of Thandoori? [y - Yes n - Re-enter quantity Any other key - No] >n_ </pre>	<p>Here, the user has entered 'n' as the input which takes the user back to the page where he/she can enter the quantity again.</p>
 <pre> CANTEEN MANAGEMENT SYSTEM Enter the quantity >500_ </pre>	<p>The user re-enters the required quantity as 500 which is again more than the available stock.</p>

 <pre> CANTEEN MANAGEMENT SYSTEM Sorry, we have only 70 left in Thandoori. Do you wish to buy 70 quantity of Thandoori? [y - Yes n - Re-enter quantity Any other key - No] >y </pre>	<p>Now, the user gives the character ‘y’ as input where the user agrees to buy whatever quantity of the item is remaining in the stock.</p>
 <pre> CANTEEN MANAGEMENT SYSTEM Your current order : 1) Biriyaani - x20 - Rs. 2000.00 2) Thandoori - x70 - Rs. 5600.00 Do you need to buy anything more? [y - Yes Any other key - No] > n </pre>	<p>As the user gives ‘n’ as input, the user proceeds to checkout.</p>

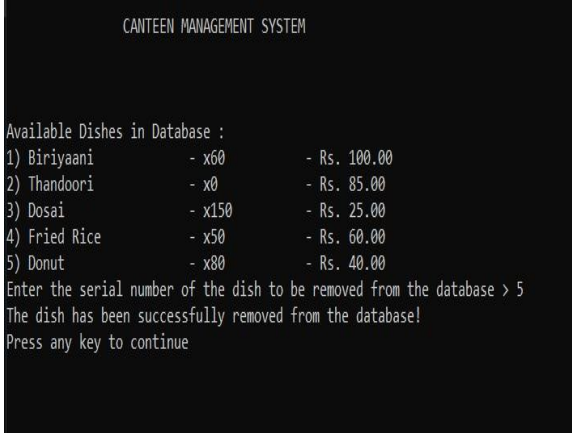
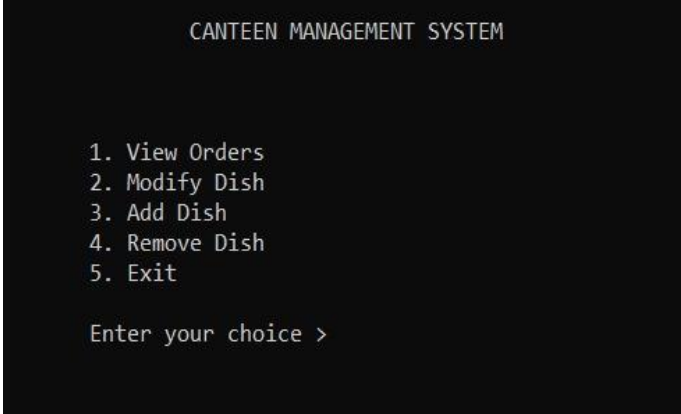
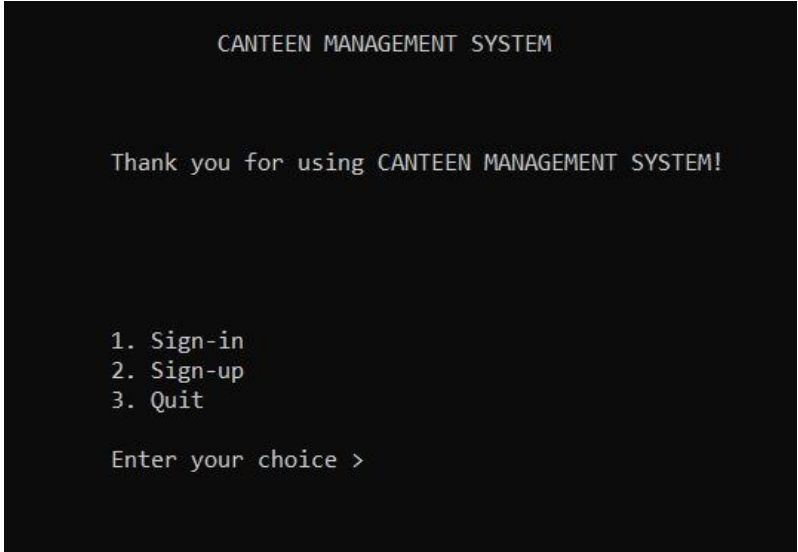
	<p>After proceeding to check out, the user has been redirected to main menu.</p>
	<p>By entering the choice as '2' in the previous page, the user is redirected to the orders page.</p>

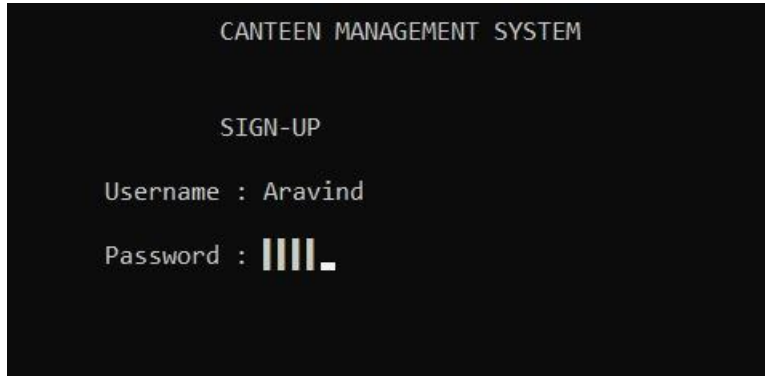
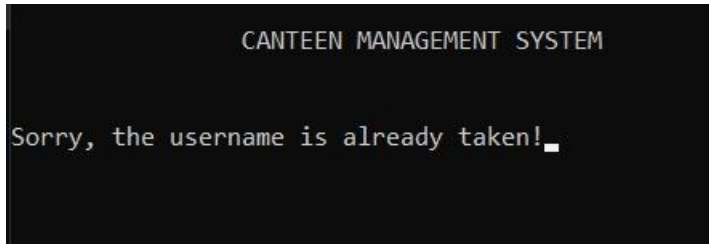


	<p>The output screen after the user enters any key.</p>
	<p>After the user enters '3' as the input, the user is redirected to the homepage.</p>
	<p>Admin login page.</p>

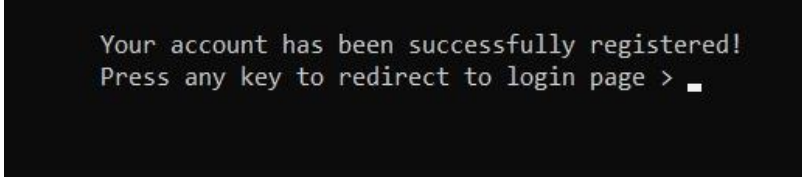

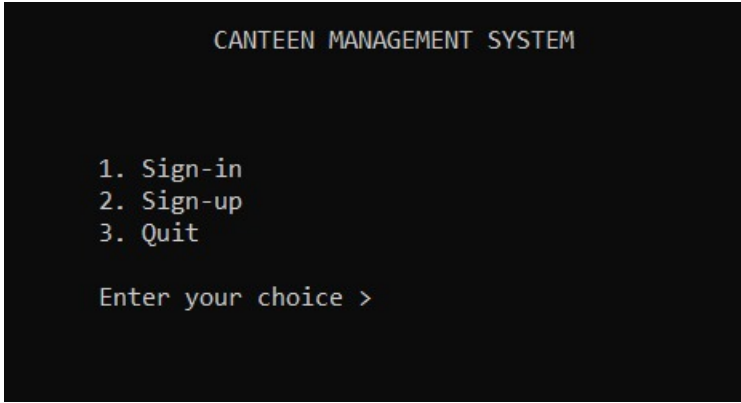
	<p>The admin can select their desired option from the given menu.</p>
	<p>The output screen when the user gives '1' as input.</p>
	<p>The output screen after the admin enters any key in the previous step.</p>

	<p>The output screen when the admin enters '2' as the input.</p>
	<p>The output page when the admin enters any option from the above page.</p>
	<p>Here, the admin wants to modify the price of the item to 85.</p>

<pre> CANTEEN MANAGEMENT SYSTEM 1. View Orders 2. Modify Dish 3. Add Dish 4. Remove Dish 5. Exit Enter your choice > </pre>	<p>The admin is redirected to this page once the modification required is completed.</p>
<pre> CANTEEN MANAGEMENT SYSTEM Enter your dish name : Donut Enter price : 40 Enter quantity : 80 'Donut' has been added successfully in the dishes catalogue! Press any key to redirect to continue > █ </pre>	<p>Page where the admin can add a new item into the database.</p>
<pre> CANTEEN MANAGEMENT SYSTEM 1. View Orders 2. Modify Dish 3. Add Dish 4. Remove Dish 5. Exit Enter your choice > </pre>	<p>The admin is redirected to this page once the modification required is completed.</p>
<pre> CANTEEN MANAGEMENT SYSTEM Available Dishes in Database : 1) Biriyaani - x60 - Rs. 100.00 2) Thandoori - x0 - Rs. 85.00 3) Dosai - x150 - Rs. 25.00 4) Fried Rice - x50 - Rs. 60.00 5) Donut - x80 - Rs. 40.00 Enter the serial number of the dish to be removed from the database > 5.█ </pre>	<p>Output page when the admin selects the option '4' from previous page.</p>

 <pre> CANTEEN MANAGEMENT SYSTEM Available Dishes in Database : 1) Biriyaani - x60 - Rs. 100.00 2) Thandoori - x0 - Rs. 85.00 3) Dosai - x150 - Rs. 25.00 4) Fried Rice - x50 - Rs. 60.00 5) Donut - x80 - Rs. 40.00 Enter the serial number of the dish to be removed from the database > 5 The dish has been successfully removed from the database! Press any key to continue </pre>	<p>Output screen after the dish has been removed.</p>
 <pre> CANTEEN MANAGEMENT SYSTEM 1. View Orders 2. Modify Dish 3. Add Dish 4. Remove Dish 5. Exit Enter your choice > </pre>	<p>The admin is redirected to this page once the modification required is completed.</p>
 <pre> CANTEEN MANAGEMENT SYSTEM Thank you for using CANTEEN MANAGEMENT SYSTEM! 1. Sign-in 2. Sign-up 3. Quit Enter your choice > </pre>	<p>The admin is redirected to this page once the option '5' is entered as input in the previous screen.</p>

	<p>Sign-up page</p>
	<p>Warning message displayed when the username entered is already taken.</p>
	<p>Sign-up page with properly filled in credentials.</p>
	<p>Type of account the person wants to create.</p>

	<p>Confirmation message displayed for successful sign-up.</p>
	<p>It redirects the user to the login page after signing-up</p>
	<p>Main-menu</p>