North Spine canteen System application

Project done by,

Aneez Ahmed Jaheezuddin

Jonathan Chan

Hennah Kim

**INDEX**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **TOPIC** | **PAGE NO.** |
| 1. | Aim | 3 |
| 2. | Synopsis | 3 |
| 3. | Advantages of the Proposed System | 4 |
| 4. | Uses of the Proposed System | 4 |
| 5. | System Flow Diagram | 6 |
| 6. | Header Files and User-Defined Data | 9 |
| 7. | Source Code | 16 |
| 8. | Screenshots | 30 |
| 9. | Scope of Improvement | 35 |
| 10. | Reflections |  |
| 11. | Bibliography | 36 |

**Aim:**

The aim of the North Spine Canteen System software is to design a system through which a customer can view store information, menu items, purchase details, and store timings for various eateries in the North Spine canteen.

**Synopsis:**

The objective of this project is to provide customers of the North Spine Canteen with convenient access to the canteen details and information using the proposed application. The application will contain a database that holds information regarding the canteen stores’, menu items and pricing, and availability of the various items in each store. Hence, the application enables the automation of the existing manual enquiry system using computerized software in order to facilitate easier access, storage, and manipulation of canteen data.

Hence, the proposed application essentially provides a framework on how to manage the North Spine Canteen for better performance and services to its customers by allowing organization to make better utilization of its resources.

**Advantages of the proposed application:**

1. Provides consumers easy access to the details regarding the North Spine Canteen so that they may plan ahead of time.
2. User friendly and easily accessible.
3. Enables efficient utilization of canteen resources and infrastructure.
4. Reduced time delays.
5. Improved customer service.

**Uses of the Proposed System:**

The proposed application can implement an automated enquiry system for the North Spine Canteen. This will enable customers and owners to save more time and make better uses of available resources. All enquiries are maintained through the application database. Hence, the application will act as a mediator between the customers and the stores. Customers can access the required information from a single location.

**Reflections:**

**Aneez:**

**Difficulties faced during this course:**

* The course provided the base knowledge for a wide range of concepts required for computational thinking. A lot of these concepts required us to go beyond the scope of this course for its effective implementation and design.

**Learning Outcomes:**

* Although I had to seek various other resources to complement my learning in this course, I believe this was very beneficial since it taught me how to take an abstract concept and use various resources available to me, such as the internet, to find its various implementations and focus on the most effective ones.
* Being part of a team for the mini project at the end of this course gave me the chance to work with individuals that have varied programming methods and styles. This allowed me to witness how the integration of our individual ideas and implementations can be used to deliver a more polished end product.

**Further improvement suggestions:**

* The course could include more practice tasks to reinforce the concepts that we learn in the online lectures.
* While working on the mini project, I realized that there were several concepts of object oriented programming that I had not been introduced to. Since python is and OOP language, an introduction to such concepts would have played in my favour during the course of the assignment.

**Bibliography:**

* <https://pypi.org/project/tkcalendar/> - An Introduction to calendars in Tkinter and its usage
* <https://tkdocs.com/> - Tkinter Documentation for python
* <https://stackoverflow.com/> - An online forum to present and solve developer related problems