

Chhatrapati Shahu Ji Maharaj University

Synopsis Report



on

MEAL STATION(CAFETERIA)

Submitted in Partial Fulfillment of the Requirements for
the Degree of

Bachelors of Computer Application

By

Brajendra Singh

0302531

Under the Supervision of **Ms. Priti Mishra**



PSIT College of Higher Education

**Kanpur-Agra-Delhi National Highway – 2, Bhauti, Kanpur
(2022-2023)**

Abstract

The purpose of Meal Station is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Meal Station, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

Contents

- **Introduction**
 - Objective**
 - Scope**
- **System Requirement**
 - Software Requirement**
 - Hardware Requirement**
- **Modules**
 - Modules Description**
- **References**

Introduction

The “Meal Station” has been developed to override the problems prevailing in the practicing manual system. This website is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The website is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Meal Station, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Employee, Canteen, Stock, Customer, Sales. Every Canteen Management System has different Canteen needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

Objective

The main objective of the Meal Station is to manage the details of Canteen, Employee, Customer, Sales, Item, and Category. It manages all the information about Canteen, Stock, Item Category, and Canteen. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an website to reduce the manual work for managing the Canteen, Employee, Stock, Customer. It tracks all the details about the Customer, Sales, Item, and Category.

Features of Meal Station are as follow:

- It provides a admin interface where only admin can login with their credentials and can manage everything in website
- Admin can add category and update them
- Admin can add items and update items
- Admin can update the stock of the items
- Admin can add or update the banner of the website
- Admin can list the orders and can change status of the items
- Admin can set the opening and closing time of the Canteen so it between the user can order something
- No need to prior technical knowledge to operate on website, it is fully graphical user interface based
- User interface is provided so that user can create their account
- User can check the available categories and items on the canteen and if they are in stock then user can order them
- A card page is provided so user can see the ordered items and can check their status
- User can pay via offline or through qrcode
- It tracks all the information of Employee, Stock and Sales etc.
- Manage the information of Employee
- Shows the information and description of the Canteen, Customer
- All the fields such as Canteen, Customer, Item Category are validated and does not take invalid values
- To increase efficiency of managing the Canteen, Employee

- It deals with monitoring the information and transactions of Sales,
- Manage the information of Canteen,
- Editing, adding and updating of records is improved which results in proper resource management of Canteen data
- Manage the information of Sales
- Integration of all records of Item Category

Scope

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Meal Station. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e. we have tried to computerize various processes of Canteen Management System.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- It satisfy the user requirement
- Be easy to understand by the user and operator
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget

System Requirements

Hardware Requirements:

- Hard Disk : 50 GB or above
- Processor : Dual Core or above
- Processor Speed : 2.2 GHz
- Ram : 2GB
- Monitor : Display Panel (1024*76)

Software Requirements

- Operating System : Windows, Linux, Mac etc.
- Web Browser : Microsoft Edge, Mozilla Firefox, Chrome
- Fronted : HTML, CSS, Bootstrap
- Technology :- PYTHON 3, DJANGO 4.0.4
- Database Server :- My SQL [8.0.30]

Modules

Modules Descriptions:

- CafeTeria Module: Used to managing website setting, database and url mapping
- Carousel Module: Used to managing website banner which can be modified by the admin according to the need
- Category Module: Used to managing the categories of the canteen which are available and admin can add, edit and delete the category
- Customer Module: Used for managing the details of Customer. How the customer can register. What are the validation are required and password encryption
- Admin Module: Used for managing the information and details of admins. One admin can add another admin and can modify the privileges to access the data
- Item Module: Used for managing the Item details. Admin can add, update, delete the item and decide it is in stock or out of stock
- Service Time Module: Used for managing the canteen open and close time details. Admin can add, update and remove the opening and closing time of the canteen.

References

- Google and Stack Overflow for problem solving
- <https://html5.org/>
- <https://www.w3.org/Style/CSS/Overview.en.html>
- <https://getbootstrap.com/docs/4.0/getting-started/introduction/>
- <https://www.python.org/>
- <https://www.djangoproject.com/>
- <https://www.mysql.com/>