****Canteen Automation

System

Introduction -

Nowadays the main problem that arises in canteens is that many people prefer to eat their breakfast and lunch in canteens. Because of this, at break time there is a large queue for tokens and food. Due to limited time provided for the lunch everyone wants to eat their lunch in the given time span, so there is a lot of rush and everyone does not get the food on time.

Some dishes take longer than the regular meals which causes delays for many people. Sometimes due to overcrowding a lot of mismanagement may occur. In all Token system is not an efficient way for Managing Canteens. Also, the food quantity can not be evaluated precisely resulting in shortage of food or wastage of food.

Manual system involves paper work in the form of maintaining various files and manuals. Maintaining critical information in the files and manuals is full of risk and a tedious process.

This is where our Automation System comes in play.

Solution Domain -

Nowadays people don’t have much time to spend in canteen by just being there and waiting for the waiter to take their order. Many customer visits the canteen in their lunch break and recess so they have limited time to eat and return to their respective office and colleges. So this software helps them to save time and order food whenever they want without calling the waiter again and again.

By using our Canteen Automation system users can view online menu cards and place order directly to the Chef without waiting for the waiter. By using this application, the work of the waiter is reduced and we can also say that the work is nullified. The benefit of this is that if there is rush in the Canteen then there will be chances that the waiters will be unavailable and the users can directly order the food to the chef online by using this application.

No Paper work would be involved as the bill would be generated online in the form of E-bill. This would remove the use of Tokens which can be replaced by QR codes which need be simply scanned while collecting the order.

Including a framework showing how to apply Internet technology progressively as skills and confidence grow, this project demonstrates the route from adapting materials to developing an online environment.

Hardware requirement -

1. i3 Processor Based Computer or higher
2. Minimum Memory: 1 GB RAM
3. Hard Drive: 50 GB
4. Active Internet Connection
5. Android Device

Software Requirement -

1. Windows 7 or higher
2. Android Development Toolkit (ADT)
3. Visual Studio 2018
4. SQL Server 2018
5. Android 7.0 or higher

Requirements for Frontend –

1. OS-Windows 10
2. IDE-Eclips
3. HTML
4. CSS
5. Bootstrap 4

Requirements for Backend -

1. OS-Windows 10
2. IDE-Eclips
3. App-SQL Yog
4. Java
5. Java Script
6. Servlet
7. Jquery
8. Server-Apache Tomcat/Glassfish
9. Database-MySql or mangoDB

**REQUIRMENTS TO GET USER**

1. Name
2. Phone number
3. Email ID
4. Enrollment Number
5. College Name
6. Password

**REQUIRMENTS TO GET FROM OPERATOR(CANTEEN MANAGER)**

1. College Name
2. Canteen Name
3. Canteen Verification letter by College
4. List of Food items available
5. Timings for opening and closing of canteen
6. Break Timings for students
7. Off days of canteen
8. Bank Account for online payments by students
9. Password for operator login