**MINI PROJECT – I**

**(2019-20)**

# Canteen Automation

# System

# Group No: 5

**SYNOPSIS**



**Institute of Engineering & Technology**

**Team Members:**

Anugrah Agrawal

171500054

Adesh Chauhan

171500014

Shruti Sharma

171500332

Aryan Sethi

171500061

## Supervised By:

**Name**

**Anand Gupta**

**Department of Computer Engineering & Applications**

**About the Project: (Minimum 100 words)**

This Canteen Automation System enables the end users to register online, read and select the food from e-menu card and order food online by just selecting the food that the user want to have using android application. The results after selecting the food from the E-menu card will directly appear in the screen near the Chef who is going to cook the food for you. The system is the combination of Android as well as Web Application. 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. The user will have a username and a password, by using which they can login into the system. This implies that the customer is the regular user of the Canteen.

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

Nowadays people don’t have much time to spend in canteen by just 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.

**Intended Outcomes:**

* Completely automated online ordering of food in a canteen.
* Order can be placed using personal android phones.
* Food ordering pages that look and feel exactly the same as the existing restaurant website.
* User can also order a Special Combo Box which contains multiple food items.
* Food ordering pages hosted on secure and special server so no risk of customers getting redirected to servers where competitors' websites are listed.
* Developed using the latest website programming protocols for minimum server loads and ultra-fast loading and processing.
* Simple user-interface Admin Panel for creation and configuration of menu groups, menu items, etc.
* Built-in facility to set modifiers on different menu items
* Facility to create modifier groups, individual modifier items and assign modifier items into different groups
* Single and individual Admin Panel and login for each Canteen
* Detailed summary of orders placed with option to search orders, update order status, print orders, etc.
* Various reports to view total sales, details of registered members with facility to print report.

The system comprises of 3 major modules and their sub modules as follows:

1. **Admin Login**

* Take Order
* Bill Print
* Add/ Remove Food Items
* Add Offers
* Update Inventory
* Order Forecasting (Predict Items Most Frequently During Specific Hours)
* Sales for each day and month
* Sales of individual item for the day
* Total Earnings

1. **Staff Login**

* Order placed by Customer
* Offer
* Order Forecasting

1. **User Login**

* Menu Items
* Place an Order
* Combo Box Selection
* Bill Payment

**Application**

This system can also be used in Restaurants, Cafeteria, Etc.

**Requirements:**

**Hardware Requirement:-**

* i3 Processor Based Computer or higher
* Memory: 1 GB RAM
* Hard Drive: 50 GB
* Internet Connection
* Android Device

**Software Requirement:**

* Windows 7 or higher
* Android Development Toolkit(ADT)
* Visual Studio 2010
* SQL Server 2008
* Android 4.0 or higher

**Future Scope:**

1. Delivery System with Drone.
2. Faster On-Demand delivery.