**System Requirement Specification (SRS)**

**Introduction:**

Computers have become part of the life for accessing almost any kind of information. Life in the 21st century is full of technological advancement and in this technological age it is very difficult for any organization to survive without utilizing technology. In today’s age, many canteens have chosen to focus on quick preparation and speedy delivery of orders. Until very recently, all of this delivery of orders were placed over the phone, but there are many disadvantages to this system, including the inconvenience of the customer needing to have a physical copy of the menu, lack of a visual confirmation that the order was placed correctly, and the necessity for the canteen to have an employee answering the phone and taking orders.

The main advantage of an online ordering system is that it greatly simplifies the ordering process for both the customer and the canteen. When the customer visits the ordering web page, they are presented with an interactive and up-to-date menu, complete with all available options. After making a selection, the item is then added to their order, which the customer can review the details at any time before checking out. This provides instant visual confirmation of what was selected.

This system also greatly lightens the load on the canteen’s end, as the entire process of taking orders is automated. Once an order is placed on the web page, it is entered into the database and then retrieved, in pretty much real-time, by a web-based application on the canteen’s end. Within this application, all items in the order are displayed, along with their corresponding options and delivery details, in a concise and easy to read manner. This allows canteen employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion. This System is intended to reduce the effort of the employee and providing better service to the customer with saving his/her precious time.

**PURPOSE OF PROJECT**

The main purpose of project “Canteen Automation System” is to order food rapidly and to make canteen more convenient for people who have limited time.

Canteen Automation System is the system where customers order their food and receive food in the canteen without any delay as they can directly go and collect what they ordered without waiting for a turn or waiting time. This system aims to accelerate customer orders and customer order system used by employees to accept customer order.

The purpose of the system is to develop a simple Canteen Automation System and implement it, which later will be used for a web-based application.

**Scope of Project**

The Project helps the user to get a fully automated Canteen System. This System will enable the user to

1. Login

2. Navigate the canteen’s menu.

3. Order

4. Cancellation

5. Payment

6. Update Menu

The Objectives of this project is:

1. Order food rapidly
2. To make it convenient for people who have limited time
3. Cost reduction
4. Reduced paper work
5. Computerized Oder and billing system

**References**

1. **wikipedia.org**
2. **https://www.inflectra.com/ideas/topic/requirements-definition.aspx**
3. **IEEE Std 830-1998 (Revision of IEEE Std 830-1993) IEEE Recommended Practice for Software Requirement**
4. [**https://www.tutorialspoint.com/software\_testing\_dictionary/software\_requirement\_specification.htm**](https://www.tutorialspoint.com/software_testing_dictionary/software_requirement_specification.htm)
5. **Book :  Clean code by Robert Martins.**

**OVERVIEW:**

A complete canteen automation system makes canteen workers monitor overall day to day business analytics more accurately with an ease. It increases the presence of canteen fascinates core customers towards your food business leading to increased sales.

By bringing all necessities in one place canteen automation system benefits both the user as well as the canteen owner smartly. Ultimately all business operation will be mad easier and single handed with the required inbuilt features.

The working of canteen automation system is similar to an e-commerce website. Whenever your customers are busy with their work, instead of coming to your canteen they can just open your website, choose the menu they like and can simply order food.

As soon as order gets placed, you will be notified immediately, so that you can start order processing. One of the main advantages of canteen automation system is the order details are accurate when compared to the phone ordering system or manual system.

**Functional Requirements:**

Users of the canteen automation system must be provided the following functionality:

**Create an account:**

The Functionality ‘registration’ will be used when a new user will join the canteen automation system. To register on the system there are two types of user namely customer and the seller. In case of registration the user has to enter his Name, Phone no., Email-id, and Password. All these data will get stored in the system database. A username and password will be used for allotted to the user which will be further used for Login to the System.

**Login to system:**

Login will be used by the existing customer when the user wants to access the system. To login to the system the user has to fill his/her user-id and password. Based on these credential a verification will be done, if the details entered is verified and found valid then the user will get access to the system otherwise the access will be denied and error message showing Invalid username or password will be displayed on the Screen.

**Authentication:**

When a user tries to login or register then their credential will be verified by the admin. In case of login the user id and password verification is done. It is done by verifying the user id and password exist in database or not. In case of registration availability of user id is verified in the database.

**Update /Navigate menu**: The menu management system will be available only to canteen employees and will, as the name suggests, allow them to manage the menu that is displayed to users of the web ordering system. The functions afforded by the menu management system provide the user with the ability to, using a graphical interface: Add a new/update/delete food category to/from the menu. Add a new/update/delete food item to/from the menu. Add a new/update/delete option for a given food item. Update default options for a given food item. Update additional information (description, photo, etc.) for a given food item.

**MANAGE OFFERS:**

The functionality add offer will be used by seller only. Seller can any time add offer, make combos, or can give discount on any particular item. Offer will be automatically applied to the menu and no promo code will be required from the user. There will be an option on the main webpage to manage offer. The user has to click on that option and there will be option to add an offer, remove an offer and Make Combos.

**VIEW ORDER:**

The Functionality view order will be used by seller only. The seller can see the upcoming orders, past order and print receipt for the orders.Order Retrieval System of the three components, the order retrieval system is functionally the simplest. Like the menu management system, it is designed to be used only by canteen employees, and provides the following functions:

1. Retrieve new orders from the database.
2. Display the orders in an easily readable, graphical way.
3. Mark an order as having been processed and remove it from the list of active orders.

**VIEW MENU:**

This Functionality can be used by both the customer as well as the seller. This is used to view the menu of canteen along with price of that item. This functionality can be used without login to the system. This Functionality will on the first page of the system. It can be used just by clicking the option to view menu on the first page of the System.

**ADD/REMOVE ITEMS:**

This functionality is used by the customer to select a particular item from the menu of canteen and also allow to deselect any selected items. It enables the user to Add the selected item to the cart.

**ORDER:** This functionality will be used by customer to place order. The items in the cart are ordered using this functionality. It requires only a click on Order option.

**PAYMENT:** This functionality will be used by customer for making Payment. Payment is compulsory for placing any order.

**CANCEL:** This is enable the user to cancel the order. In case of successful cancellation refund will be done.

**User Interface Specifications:** Each of the system components will have their own unique interface. These are described below. Web Ordering System Users of the web ordering system will interact with the application through a series of simple forms. Each category of food has its own form associated with it which presents a drop down menu for choosing which specific item from the category should be added to the order.

Adding an item to the order is accomplished by a single button click. Users select which category of food they would like to order, and therefore which form should be displayed, by navigating a menu bar, an approach which should be familiar to most users.

Entering payment details and Payment is done in a similar manner. The user is presented with a form and must complete the required fields, which include both drops down and text boxes, before checking out and receiving a confirmation number.

**Non-functional Requirements:**

Performance Criteria:

• **Portable:** Our project will portable and available on websites easily and works at a good speed.

• **Flexibility:** Our project should be so flexible that whenever we want to make changes in it very easily it can be done.

• **Time:** The elapsed time between the submission of order process between the customer and cashier in a canteen should be as minimum as possible.

• **Extensibility:** It should be able to accommodate the variations like:

1. The different order should be handled easily.

2. It should be an option for cash on delivery, pay through card between customer and canteen.

• **User-friendly:** Our canteen automation system should be more users friendly. The user interface should be kept simple. Since the different type of people will interact with this process so our project should be very easy to them to understand.

**ASSUMPTIONS:**

1. There are two types of user using the system. They are Customer and the Seller.

2. To use any function of the system the user must have to login in the system.

3. Admin is a secondary actor which acts as the manager of the System. It mains the coordination among different functionalities of the system. It accept/reject order based on the availability of the product/item.

4. There will be an authentication system for login and registration based on some data such as user-id, email id, and password.

5. Payment will be done using upi/cash.

6. Offer will be automatically applied in the order. No promotional code or inclusion of offer is required from the customer end.

7. Modification of Order ones placed is not possible.

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