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# **Software Requirements Specification**

**for**

# **NITK NIGHT CANTEEN**

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**OCTOBER 1,2018**

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# **1. Introduction**

## **1.1 Purpose**

The purpose of the document presents detailed explanation of objectives, features, user interface and application of Nitk night canteen manager. It will also describe how the system will perform and under which it must operate. Both stakeholders and developers of this system are benefitted.

## **1.2 Scope**

Nitk Night Canteen Manager : It is a kind of online food ordering process system . Online food ordering is a process of food delivery or takeout from our night canteens through a website. Much like ordering consumer goods online , this service allows students to keep accounts with them in order to make frequent ordering convenient . It is a type of choose from available items and canteens that the admin posted.

This website is used by NITK students to order food from night canteens . Using this website student gets a clear picture of what all night canteens are available and the food items that are provided by the respective canteens .

## **1.3 Intended Audience and Overview**

This document is intended for different types of readers such as night canteen owner, system designer, developer and tester. By reading this document reader gets basic view of the application.

This NITK NIGHT CANTEEN MANAGER is a software package facilitating the order of food with in our college.

The student is able to view various night canteens , view the menu ,place orders online and organize the final bill through the website .

Students are provided with an attractive and easy-to -use surface GUI. It was a password protected which ensures the security of the personal details of an user.

## **2. Overall Description**

### **2.1 Product Perspective**

This webpage has been developed in order to save time and and to make no errors .It can be considered as a mix of several applications functions.

### **2.2 Product Functions**

The NITK NIGHT CANTEEN System would have the following basic functions :

#### ***WEB ordering system module:***

This module provides the functionality for students to place their orders and supply necessary details. Users of the system namely students, must provide the following functionalities .

- Create an account.
- login to their system.
- navigate the canteen menu.
- select an item from menu.
- add an item to the cart.
- place order.
- view order details.
- receive confirmation in the form of an order number.

### ***Order retrieval system module:***

It is designed to be used only by canteen owner, and provides the following functions :

- Retrieve new orders from database.
- Display the food orders in an easily readable,graphical way.

## **2.3 User Characteristics**

The primary user group of this website shall be the students who order food from canteens and the owners of the night canteens next to them since they were less in number.

So,the secondary users shall be the owners.

The owners can take the advantage of saving time and can avoid phone calls providing the ordering online smoothly an easy process. The owners just need to update the prices of items and items menu through admin access.

## 2.4 Constraints

The application runs on the devices which supports browsers like firefox , google etc .., which supports web.The user should have an active internet connection while using the website.

## 2.5 Assumptions and Dependencies

Assumptions are students cannot login to database. Users should have good internet connection.And users know how to use these websites like having little experience and knowledge in using web services.The canteen owners are dependent on admin for updating details.Assumed students are from nitk.Payment is made at the time of delivery.

## 3. External Interface Requirements

### *3.1 User Interfaces*

At first the user need to goto the webpage . He can see signup or login option . The user need to sign up for the first time and then onwards the user can login directly providing his username(roll no) and password.

On successful login the user can click on the night canteens .

Various night canteens are displayed and he can click on respective night canteen and can view the menu and an

option on side of each item (pick) along with price. On clicking the pick option the item will be selected and added to the cart .

On clicking the cart button user can view the items the user wants to check out .And there is a counting process automatically on adding items to the cart(total bill).

### ***3.2 Hardware Interface***

Web applications can have any designated hardware, it does not have any direct hardware interfaces.The hardware connection to the database server is managed by the underlying operating system and the web server.

### ***3.3 Software Interfaces***

The software interface plays vital role in the interaction between the user and system . Interfaces are made as simple as possible for smooth interaction between the user and system . Proper security measures will be implemented to avoid the failure of the interfaces . Platform used is browser.latform used is browser.

### ***3.4 Communications Interfaces***

The communication between the different parts of the system is important since they depend on each other. However, in what way the communication is achieved is not important for the system and is therefore handled by the underlying operating systems for the web portal.

## **4. System Features**

### **Functional Requirements:**

Following are the functional requirements of project “NITK NIGHT CANTEEN”.

### **User Class 1-STUDENT**

### **PROCESSING REQUIREMENTS**

#### **4.1 Functional requirement 1.1**

ID:FR1

TITLE:Open the website.

DESCRIPTION:Open website using the url

USE:To use the nitk night canteen manager application the user need to open the website using browser.



## **INPUT REQUIREMENTS**

### **4.2 Functional requirement 1.2**

ID:FR2

TITLE: Selecting the night canteen

DESCRIPTION:the user should select one night canteen among available night canteens.

USE:The user can order food only after selecting the night canteen

### **4.3 Functional Requirement 1.3**

ID:FR3

TITLE:student login

DESCRIPTION:Only the students of nitk can order the food.They need to login with their student id(roll no) and password(created during signup)

USE:Authorized access.

### **4.4 Functional Requirement 1.4**

ID:FR4

TITLE:Student Sign up

DESCRIPTION:The student need to create account providing details like phone number,address and he should create a password also.

USE:This enables only students of nitk to order food(Since one should provide a valid id at the time of signup).

## **4.5 Functional Requirement 1.5**

ID:FR5

TITLE:Selecting items

DESCRIPTION:After choosing night canteen the user needs to select one or more items that he wants to order.

USE:Items to be ordered.

## **4.6 Functional Requirement 1.6**

ID:FR6

TITLE:Empty cart.

DESCRIPTION:The student can delete all the items in the cart just by clicking on empty cart.

USE:If user changes his mind like , to order food from another night canteen or he doesn't want to order food at all then he can empty his previous selections with one click .

## **4.7 Functional Requirement 1.7**

ID:FR7

TITLE:Deleting single item

DESCRIPTION:cancelling a particular item from the cart.

USE:If student feels to change his items he can update the cart by deleting and adding other items.

## **OUTPUT REQUIREMENTS**

## **4.8 Functional Requirement 1.8**

ID:FR8

TITLE:Receipt generation.

DESCRIPTION:The total cost of food items from particular night canteen.

USE:Student will know much he has to pay at the time of food delivery.

## **4.9 Functional Requirement 1.9**

ID:FR9

TITLE:Receiving Email

DESCRIPTION:Invoice will be sent to student via email.

USE>User can save the electronic generated invoice and can use in case of any discrepancies.

## **User Class 2-Night canteen owner**

### **PROCESSING REQUIREMENTS**

## **4.10 Functional Requirement 2.1**

ID:FR11

TITLE:Provide Email address

DESCRIPTION:The owner need to provide the email address so as to receive the order.

USE:The owner gets the email from website regarding the orders.

## **4.11 Functional Requirement 2.2**

### **ID:FR12**

**TITLE:**Provide food items list

**DESCRIPTION:**The owner need to provide the food items that are present in his night canteen

**USE:**The list provided by night canteen owner will be shown in the food items list of his night canteen which can be ordered by the student.

## **OUTPUT REQUIREMENTS**

## **4.12 Functional Requirement 2.3**

### **ID:FR13**

**TITLE:**Receive email

**DESCRIPTION:**The owner receives the order through email.

**USE:**The owner as he provided email whenever a student places order through his night canteen he will receive the receipt for the particular order along with the delivery details and student information.This can be used in case of any discrepancies.

# **5.Non Functional Requirements**

## **5.1 Performance requirements**

**NF1:**A good internet connection is required for users using this app.

## **5.2 Safety requirements and Security requirements**

**NF2:**This system will use HTTPS.Because of this protocol this is more secure.

### **Other non functional requirements**

## **5.4 Software quality attributes**

### ***portability***

**NF4:**This website is portable on any browser

### ***maintainability***

**NF5:**Application should be easily extended by adding new functions