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1 Introduction

1.1.   Purpose

This document is meant to detail the features of the software being developed, this is used as a guide for the developers and a software validation document for the clients to check if all the requirements have been satisfied after the development of the software.

1.2.   Scope

In the system of Ncas popote ,all the record works in canteen is maintained by systematic way.through this system we can save the time of manual record works.it will provides the e-menu for online food ordering.

1.3.   Product perspective

1.3.1 System interfaces

This is a web application that runs in the latest version of Chrome, Firefox or any web browser on Windows.

1.3.2 User interface

The application user interface has menus, toolbars, buttons, text boxes, allowing the user to control the application with the help of a mouse and keyboard.

1. Login Page

2. Registration page

3. The page display the facilities of the canteen and its structure. And they can view the menu items and their price details from the Menu bar.

4. Customers can check the menu items and can order the selected items ,the total amount calculation will be done on the cart section .

5. The details of the payment including the amount will be displayed and will be sent to the customer via their registered email address.

6. Hostelers can view their fees status using their personal id & password.

1.3.3 Hardware interface

Processor: Intel® Core (TM)i3-7020U CPU @2.30GHz 2.30 GHz

Ram   :4.00GB

Hard Disk   : 1TB

.

1.3.4   Software interface

Front End   : PHP

Back End   : MySQL

Web server   :   IIS 5.0(internet information service)

Operating System : windows 10

Web Browser   :   Internet Explorer 6.0

1.3.5   Communications interface

The communication architecture follows the client server model. Communication between the client and server should be served over HTTPS. The communication must follow stateless protocol.

1.3.6   Memory constraints

This application needs only a minimal amount of memory for storage and processing.

Product Function

The website NCAS POPOTE will helps to get a simple overview about the college canteen.And at last the user of this site has the possibility to send the feed back about the site and also about the services provided by the college canteen. It will also includes the details about the employees those who are comes under the canteen section,and the gallery section of the canteen.

So this advantage of propose system will reduce the time lagging by the queueing system.it will provide the daily mess users(hostelers)to do their mess fees in online.the Ncas popote system will also consists the canteen employee details.

1.4.1 Customer Sign-Up

1.4.2 Admin Sign-Up

1.4.3 Add items needed to cart

1.4.3 Add item details

1.4.4 Login for hostelers

1.4.5 Check their fees status

1.4.6 Add details about the canteen

1.4.   User characteristics

The main users of this system are the students and faculties. They can login to the site for making purchases and know the hosteler's fees status. The administrator is the one who controls the system rectifies the issues that happens in

between and also maintains the system to be active all the time. The pre-requisite for all the users are they show be familiar with the terms like login, sign-up, add to cart etc.

1.5. Assumptions and dependencies

For the smooth working of the software internet connection is must. The customers should need a personal id and password for completing the registration and for the purpose of making order. And the hostelers must have an another registration id for check their current fee dues.

1.6. Acronyms and abbreviations

We use bold letters to represent the main functions of the system. We will be using some of the acronyms throughout this document. Below shown are the abbreviations and definitions of some terms used in this document.

1.7.1 Admin

Admin is the person who has full control over the web application and he/she is responsible for managing the functions in the system.

1.7.2 Database

The data base design is a logical development in the

methods used by the computer to access and manipulate data stored in the various parts of the computer system. Database is defined as an integrated collection of data. The overall objective in the development of database technology has been to treat data as organization recourses and as an integrated while. The main objectives of database are data integration, data integrity and data independence.

1.7.3 Field

A field is a cell inside a form.

2 Requirements

2.1 External Interfaces

There are many interfaces related to software in software engineering. Some of the important interfaces are User Interface, Software Interface and Hardware Interface.

2.1.1 User Interfaces

User interface is the page with which the customer interact which is build using HTML and Php. The forms that user interact is designed using HTML.

2.1.2 Hardware Interfaces

The local address of the system will be in IPV6 format.

2.1.3 Software Interface

The system must interact with the configurator to identify all available components. The system should communicate with the content manager to obtain product specifications.

2.1.4 Communication Interface

In communication interface we use the HTTPS which is the secured file transfer protocol used for communication between the client and the server. This project uses a client server architecture.

2.2 Functions

2.2.1 Registration of customers

Customers should add their details for registration like user id and password and also they should add the order details like item to order and quantity.

2.2.2 Viewing product details

Customers can view the product details that he/she needs to buy. Its price and the review of other customers who brought this product from the canteen will be shown there. They can add the quantity that they are planning to buy.

2.2.3 Adding products to cart

Customer can add different products available in different shows to their cart. When they add the products the quantity they add and the amount of each product will be displayed and also the total amount that they need to pay will also be displayed.

2.2.5 Payment

Payment methods can be done by ofline.

2.2.6 Adding product details

Adding product details is the function done by the admin. They can add the products in canteen and update the stock and also make changes in the details of the product.

2.2.7 Adding review

Customers can add review about the product and also about the canteen.

2.2.8 View hosteler's status

They can check their details and fees due details

2.3 Usability requirements

The software should be easy to use for all the users. The customer belong to different age group so for all the users different functions assigned to them should be easily accessible.

2.4 Performance requirements

The performance of the software should not be slow the initial screen should load as fast as possible. There should not be any lagging in between the operations that are done behind the user interface.

2.5 Database requirements

A database is created, in which all the table are different which required to do the different operation such as storage and retrieval of information. Database id designed in such a way it can handil the different database queries.

SQL is characterized as a free, fast, reliable open source relational database. It does lack some sophistication and facilities, but it has an active development team and, as it goes from release to release, more capabilities are added. At certain times there will be a trade-off

between speed and capabilities, and the SQL teams intend to keep their database engine fast and reliable. It has a good feature set.

SQL is a multithreaded, multi-user, SQL Database Management System (DBMS) with more than six million installations.

2.6 Design constraints

Design include the budget for designing and also the time that is allocated for designing. The designing part of the software should be simple that is it should not effect the performance of the software like the time taken for loading a page should not increase. It should be attractive and also should be easy to maintain.

2.7   Software system attributes

The application should run in latest chrome, fire fox or safari. It should not send any data to internet all the data should be kept confidential. It can analyze all the inputs made by the users.

3.Verification

In verification we check all the above given requirements are completely present in the final product. All the functional and non-functional requirements are satisfied and also the product accomplishes the task for which the application was

developed. The stake holders check if all the requirements listed by them are satisfied in the product.

4. References

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2. Head first PHP & mySQL ,2009
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