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## G.H. Raisoni College of Engineering & Management

Department of Computer Engineering

TAE -1 (Activity Based Learning)

SOFTWARE REQUIRMENT SPECIFICATION (SRS)

Topic: Restaurant Management System

Subject: Database Management System (DBMS)

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**1. Introduction**

The restaurant management system is a collection of software products that helps to keep all aspects of your dining establishment running smoothly. Think of it as a two-part system, with one part of it managing the back of the house, and the other side managing the front of the house.

* 1. Purpose

-The Software is to provide enhanced features of our Restaurant management system.

-It maintains two level of users.

-Manager level

-Customer level (Normal users)

-The Software details

- Maintaining Customer Details.

-Maintaining details update if customer Sr.no, Name, bill no.

* 1. Overview

- Project is related to restaurant management System

-The Project Maintain two level of users:

> Student User:-

-Main Facilities available in this project are:

- Storing Information of customer

> Administrator Level:-

- Main Facilities available in this project are:

- maintaining record of customers

-in this Project collection of data is from different customers

- change in customer details & update in the database

**2. PLANNING**

Planning is the preliminary stage to achieve the object of project. The various stage included in the plaining are as follows.

1. Identification of enterprise plans & goals with subsequent determination of information system needs.
2. Evaluation of current information system to determine existing strengths & weakness.

**2.1) Problems Statement and objectives:**

To overcome the drawback of the previously existing Restaurant management System

**2.2.1) problems with conventional system**

a) Lack of immediate retrieval: The information is very difficult to retrieve and to find particular information like-E.g.-To find out application forms for customers, the customer ha to go through various registers. This results in inconvenience and wastage of time.

b) Lack of immediate information storage: the information generated by various transaction take time and efforts to be store right place.

c) lack of prompt updating: various changes to information like customers details are difficult to make as proper work of manager involved.

**2.1.2) Goals of Proposed System:**

**1. Planned approach towards working:** The working in the organization will be planned and organized . the data will be stored properly in the data stores , which will help in retrieve of information as well as its storage.

**2.Accuracy:** The level pf accuracy in the proposed system will be higher .all open would be done correctly and it ensures that whatever information is coming to center is accurate.

**3. Reliability:** The reliability of the proposed system will be high due to the above stated reasons. The reasons for the increased reliability of the system is that now there would be proper storage information.

**4.** **Immediate storage of information**: In manuals System there are many problems to store the largest amount of information.

3.SYSTEM DEFINATION

**3.1) Background**

Any Foundation can provide Counseling for needy and eligible Customer by using Restaurant Management System.

Customer counselling System provide facilities like

1. **Managing customer’s Details**

* Provide eating product, bill number ,GST billing details

These are the various jobs need to the done in a restaurant management system by the manager and customer.al this work done on computers.

The work is done as follows:

* Information about customer is done by just print the bill as well as bill number, table number ,room by customer information type. Whenever the customer comes up information is stored freshly

All this work is done manually and lot of documents are needed to be handled and taken care of**.**

**3.2) Scope:**

It can be used by Restaurant for Counselling purpose.

**3.3) Administrator characteristics**

Every user should be;

. Comfortable of working with computer in restaurant by manager

. He must also have basic knowledge of English

Every user(customers) should be;

* comfortable of working with computer

3.4) System Analysis:

Analysis of the System can be divided into following 3 phases:

. structured Analysis

. package Selection

. System specification

**REQUIREMENT COLLECTION AND ANALYSIS**

4.1) Requirement gathering and analysis:

This activity typically involves interviewing the students and studying the existing documents to collect all possible information regarding the system . If the project involves automating some existing procedures

**4.2) Software Requirements Specification (SRS)**

Once the analyst has performed all the above mentioned activities all requirements are to be systematically organized in the form of an SRS documents. The SRS documents usually contains all the user requirements in an informal form.

An SRS documents clearly documents the following aspects of a system :

. Environmental Characteristics

1. Hardware
2. Software

. Functional Requirements

. Non- functional Requirements

4.2.2) Each High level requirements typically involves accepting some data from the user, transforming it to required response and outputting the response to the user

A Manager is hired that will take care of collecting the bill of customer for conformation an they will solve quires of customer

**4.2.3) Non-Functional Requirements:**

Non-Functional requirements are the ones that specify criteria that can be used to judge the operation of a system rather than specific behaviors

The ones concerned for the project are as:

. Security

Security is the degree of protection against danger, damage, loss and crime, In order to ensure security , a login is maintained which is bill and table number hence forth is accessible by only certain trust worthy people from manger

. Maintainability

Maintainability refers to the ease with which a product can be maintained in order to:

. Performance

Good performance is maintained by providing reliable and high quality services to the customer as other customer satisfaction is the top most priority.

**4.2.4) Sources of information/Requirement gathering:**

Information can be gathered from major sources:

**1.Internal Sources**

. Working staff

.professional staff in restaurant

. system documentation or manual income

**2.External sources**

. Government for license

. Internet

5.DATABASE DESIGN

6. NORMALIZED TABLES

7. DBMS SELECTION

Back-end desired features:

1. Multiple user Support
2. Efficient data handling
3. Provide inherent features for security
4. Popularity
5. Easy to install
6. Operating system compatible
7. Various drive available
8. Easy to implement with the front-end
9. Stord procedures of food

According to above stated features we selected in DBMS

8. APPLICATION DESIGN

**Front –end selection:**

An important issue for the development of a project is the selection of suitable front-end. When we decided to develop the project we went through an extensive study to determine the most suitable platform that suits the need of the organization as well as helps in development of the project.

The Aspects of our study included the following factors:

1. It Must have a graphical user interface that assists employee that are not from it background
2. Flexibility
3. Platform independent
4. Easy to debug and maintain
5. Events driven programming facility
6. Must provide excellent reporting features with good printing support
7. Event driven programming facility
8. Scalability & extensibility

10.TESTING

* Testing a piece of code consists of subjecting the code to a set input and observing if the piece of code behave as expected or not
* If the code fails to behave as expected ,then the condition under which failure occurs are noted for later debuging and correction.
* Thus testing provide a practical way of defects in a system and increasing the uses confidence in a system

10.1) Testing the Project:

1) Data Integrity through Constraints

A Constraints ensure database integrity thus are sometimes called database integrity constraints . A few of them used in the project are as

2) Validating the Tables:

Data Entered through tables is added I accordance with the constraints applied

For example

Entering only numeric values for customer order and bill number

3) checking of Errors:

Different command button and toolbar buttons are tested so as to check whether it performs the correct intended function or not.

CONCLUSION

The Project on a RESTAURENT MANAGEMENT SYSTEM is for computerizing the work of student details.

The android application is for ordered customer where they can fill there details from anywhere for counselling purpose.

The System also provide the facility of backup the details of database

**3. Requirement Specification**

SRS001 **Add patients**

The HPIMS shall allow front– desk staff to add new patient to the system.

SRS002 **Assign ID**

Each patient a id and add it to the patient record, this id is used by the patient throughout his/her stay in hospital

SRS003 **Patient information**

Each patient shall have the following information: first name, last name, phone no., personal health no, address, postal code, ward name, bed no., and doctor’s name which was assigned.

SRS004 **Data Base**

The system shall use the MySQL database, which is open source and free

SRS005 **Operating System**

The Development environment shall be Windows 2000.

3.2 Software Requirements

. Windows 7 or above operating system

. JRE 1.8

. MySQL server

3.3 Hardware Requirement

. Core i5 processor

. 4GB Ram

. 20GB of hard disk space in terminal machines

. 1TB hard disk space in Server Machine

**4. Advantages**

- Immediate Access of data

- Friendly user interface

- Time Saving

- Data can be easily insert/update/delete

- Saving paper work

- Give facility of Different types of enquiry

- Data are easily approachable

# **5. Limitation**

1) Finance: the high cost of material for the project & everyday constraint increase in transportation tax.

2) Data Collection: The research work had a problem in collecting data form staff.

3) Material: it contains play a major role in that limiting some research that would have contributed immensely.

**6. References**

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