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SUBJECT – SOFTWARE ENGINEERING

D.O.P – 5<sup>TH</sup> MAY

### AIM:

Write a design document for the following scenario

The software proposed is Food Ordering System. It has participants who will interact with the system, called the external entities.

The Supplier, Kitchen, Manager, and Customer are the entities who will interact with the system. In between the process and the external entities, there is data flow (connectors) that indicate the existence of information exchange between the entities and the system

### Objective:-

- The objective of “Food Ordering System” is To develop a system that will surely satisfied the customer service.
- To design a system able to accommodate huge amount of orders at a time.
  - To automatically compute the bill.
- To improve the communication between the client and the server and minimize the time of ordering.

### Requirement Analysis :-



## **Software Requirement**

- Operating System: Windows 7/8/10/11
- SQL
- Visual Studio Code
- Microsoft Azure Enterprises

## **Hardware Requirement**

- System: Intel Core i3 10<sup>th</sup> Gen
- Hard Disk: 120 GB
- Monitor: 14" LED
- Input Devices: Keyboard, Mouse
- Ram: 4 GB
- Cloud Server

## **Features:-**

- Online Registration/ Login
- User Registration
- Admin Panel



## **Advantages :**

- Makes the ordering process easier.
- Efficient customer and order management.
- Monitor your expenses incurred in real-time.
- Free and cheap marketing.

## **Project Approach :-**

### Project Initiation

#### **Planning**

Project planning is a part of project management, which relates to the use of schedules such as Gantt charts to plan and subsequently report progress within the project environment.

Planning a project mainly consist of 3 steps:

1. Have a vision.
2. Make a timeline.
3. Build the team.

#### **Resource Allocation**

- Project Staff resources will be available when and as they will be needed.
- Required hardware resources will be available when and as they will be needed.



- Required customer resources will be available when and as they will be required.
- Access to industry experts and specialized skills will occur as needed.

## Project Execution

### **Designing**

This part contains how the project will be designed. Mainly it is based upon the requirements of the user, the programmer have to do as the

client says what kind of things he need in the project, what kind of appearance he needs.

### **Implementation**

Implementation contains all the coding part of the project. If it's a large project, a team is required to accomplish it otherwise a single person can also complete the project according to the need of client.

### **Testing**

This phase contains the testing of the project before handling it to the client. All the aspects of the project are check, whether the project is working fine or there is any error, if any then it can be removed before handling the project to the client.

## **Project Deployment**

- Deliverables will be subject to no more than a specific numbers of review cycles.



- Software and equipment order lead times are known and can be expected to be met.

### **Installation**

Installation contains all the steps like the installation of all the needs of the software as required by the project. We have to provide everything to the user even the software and also teach how to use the project and what to enter where.

### **Maintenance :-**

#### **Updates**

We will provide all the updates for the project to fix all the issues and bugs etc. All the new things will be added to the product with the update. The update can be optional as well as mandatory. The Updates will contain all the new things added to product and fix any problem.

#### **Fixing Bugs**

In this the bugs in the project are fixed, they can either be fixed with update or either with the help of any software developer. Mainly the updates fix all the bugs, because they are released to fix all the bugs and problems of the product.

### **Cost Estimate :-**

- The statistics used in preparing the estimates are accurate within a given percent.



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- The cost estimate will depend upon the work of project and the staff.