Assignment No : 3.3

Student Name:Rajiv Paul   **UID:20BCS1812**

Branch: CSE   **Section/Group: 607A**

Semester: 4th   **Date of Assignment:09/05/2022**

Subject Name: Software Engr.   **Subject Code: 22E-20CSP-255**

1.

Aim: Consider the scenario
A Online bookstore is to be implemented. This project is a website that acts as a central book store. Such online bookstores tend to get a large amount of online visitors. In order to provide optimal performance and avoid site crash the system needs to be hosted on a cloud infrastructure. The sql database stores various book related details. A user visiting the website can see a wide range of books arranged in respective categories. The user may select desired book and view its price. The user may even search for specific books on the website. Once the user selects a book , he then has to fill in a form and the book is booked for the user. The system thus handles a large amount of users with ease using azure based cloud infrastructure. Design a project plan for the said project.

Objective: To design a project plan for the said project.

Requirement Analysis:-

Software Requirement

    1. Windows: 7/8/10/11

    2. MacOS upto Monterey

    3. Vs Code

Hardware Requirement

1. System: minimum intel i3 6th Gen

2. Hard Disk: minimum 256GB

3. Ram: minimum 4GB

Features:-

1. Online Registration/ Login

2. User Registration

3. Book Inventory Management

4. Book Booking and Availability Check

5. Admin Panel

Advantages :

1. **Customers can get their book delivered instead of going and buying the book. They can make payment online itself.**

2. **Managing of inventory in the shop for shopkeeper becomes easier as customers are not visiting.**

3. This system saves both time and travelling cost of customers.

4. User can know different kinds of new books as in shops they just purchase only the books they know already.

Disadvantages:

The only disadvantage is that if the customer receives a book that is not in proper condition or wrong book is sent then the customers has to return the book which causes an additional charge of posting it back and also time too.

Project Approach :-

Project Initiation

Planning

Project planning is a part of project management, which relates to the use of schedules such as Gannt 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 a team.

DEPARTMENT OF
ACADEMIC AFFAIRS
Discover. Learn. Empower.

NAAC
GRADE A+
ACCREDITED UNIVERSITY

Resource Allocation

1. Project Staff resources will be available when and as they will be needed.

2. Required hardware resources will be available when and as they will be needed.

3. Required customer resources will be available when and as they will be required.

4. 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

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

2. Software and equipment order lead times are known and can be expected to be meet.

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.

DEPARTMENT OF
ACADEMIC AFFAIRS
Discover. Learn. Empower.

NAAC
GRADE **A+**
ACCREDITED UNIVERSITY

Cost Estimate :-

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

2. Outsourced consulting will be limited to a specified number of days at a specified rate per day.

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

Project Constraints :-

The project should have been modified a bit more, like all details should be shown somewhere about the books, customers and other details. The details of the books should be displayed on the screen when a customer open the website. The overall project got so many constraints that need to be solved.

2.

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: To write a design documents of above scenario.

Requirement Analysis:-

Software Requirement

> **1. Windows: 7/8/10/11**
>
> **2. MacOS upto Monterey**
>
> **3. Vs Code**

Hardware Requirement

> **1. System: minimum intel i3 6th Gen**
>
> **2. Hard Disk: minimum 256GB**
>
> **3. Ram: minimum 4GB**

Features:-

1. Online Registration/ Login

2. User Registration

3. Customer can interact with various entity

4. Admin Panel

Advantages :

1. Makes the order process easy for customers.

2. Management of customer's order is easy and more efficient.

3. Helps in monitoring the expenses in real time.

4. Cheaper way of marketing.

Project Approach :-

Project Initiation

Planning

Project planning is a part of project management, which relates to the use of schedules such as Gannt 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 a team.

Resource Allocation

1. Project Staff resources will be available when and as they will be needed.

2. Required hardware resources will be available when and as they will be needed.

3. Required customer resources will be available when and as they will be required.

4. 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

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

2. Software and equipment order lead times are known and can be expected to be meet.

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 :-

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

2. Outsourced consulting will be limited to a specified number of days at a specified rate per day.

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

Project Constraints :-

The project should have been modified a bit more, like all details should be shown somewhere about the books, customers and other details. The details of the books should be displayed on the screen when a customer open the website. The overall project got so many constraints that need to be solved.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			