Worksheet 3.3

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Branch: CSE (Lateral Entry) Section/Group:20BCS-807\_B Semester: 4th Date of Performance: 09/05/2022

Subject Name: SE Lab Subject Code: 20CSP-255

Q1.

1. Aim/Overview of the practical:

An 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 number of online visitors. A user visiting the website can see a wide range of books arranged in respective categories. The user may select the desired book and view its price. Write a design document for the given system.

1. Task to be done/ Objective:



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Design documentation is a collection of documents and resources that covers all aspects of your product design. Documentation should include information about users, product features, and project deadlines; all essential implementation details; and design decisions that your team and stakeholders have agreed on.

1. Requirement Analysis:

Software Requirement:

* Smart Draw
* Google Chrome
* Excel

Hardware Requirement:

* Computer
* Windows 10
* Power Supply

Design Document:

A software design document (also known as a software design specification or technical specification documents) is a written report of a software product’s design, describing its overall architecture. Such design documents are usually written by software designers or project managers and are given to the software development team to give them an overview of what needs to be built and how.

A software design document helps to ensure the design specs of the software are understood and it’s clear to all. It specifies what is possible with the product and how it can be accomplished.

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AIM:

An 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 number 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 number of users with ease using azure-based cloud infrastructure. Design a project plan for the said project.

Objective: -

* The objective of “Online Bookstore” is to simply to collect the data of books that are booked and to manage the store online.
* The main objective of the Online Bookstore is to take the less time in comparison to manual system and also to keep all the records safe.
* Online Bookstore is a software system that can store, update, and retrieve the information through databases.

Requirement Analysis: -

Software Requirement:

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

Hardware Requirement:

* System: Intel Core i3 10th Gen
* Hard Disk: 120 GB
* Monitor: 14’’ LED
* Input Devices: Keyboard, Mouse
* Ram: 4 GB
* Cloud Server

Features: -

* Online Registration/ Login
* User Registration
* Book Inventory Management
* Book Booking and Availability Check
* Admin Panel

Advantages:

* Customers can get their book delivered instead of going and buying the book. They can make payment online itself.
* Managing of inventory in the shop for shopkeeper becomes easier as customers are not visiting.
* This system saves both time and travelling cost of customers.
* 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 if the customer receives a book that is not in proper condition, then it takes a long process to return back it.

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 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 needs 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 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: -

* The statistics used in preparing the estimates are accurate within a given percent.
* Outsourced consulting will be limited to a specified number of days at a specified rate per day.
* 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.

Q2.

1. Aim/Overview of the practical:

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.

1. Task to be done/ Objective:



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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: -

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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: -

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1. Result/Output/Writing Summary:

I have successfully done this practical.

Learning outcomes (What I have learnt):

1. Learned about Design Document.
2. Learned about design document for Online bookstore.
3. Learned about a design document for a Food Ordering System.

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. |  |  |  |
|  |  |  |  |