**EXPERIMENT 3.3**

**NAME: Yash Gupta UID: 20BCS5009**

**SECTION: 709 A Sub: Software Engineering**

**Aim:**

1. 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
2. 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

**Requirement Analysis:**

* Software Requirement:

Digram.net

Google Chrome

* Hardware Requirement:

Computer

Internet

PROJECT APPROACH

1. PLANNING It is a part of project management where the planning is done about how the progress will be done

• Make a vision

• Make a timeline – this considers that how much time should be taken by some stage

• Build the team – based on the requirement the team is selected which can do the work appropriately.

2. RESOURCE ALLOCATION

• Required hardware and software will be available as and when required.

• Staff members will be present when they are needed.

• Required customer resources will be available as and when required.

• Guidance will be available from the industry experts when needed.

PROJECT EXECUTION

1. DESIGNING

At this stage the design of software is decided such as appearance, symbol etc., as per the consent of the client. Programmer do the work as instructed by the client.

2. IMPLEMENTATION

In this stage the code is developed. Developers will be assigned to do the coding as per the requirement of the client. The coding language will be chosen as instructed by the client and also which is best suited for the software to run properly.

3. TESTING

In this stage the testing of the product prepared will be done before handing it over to the clients or before releasing it into the market. Bugs will be removed if encountered.

PROJECT DEPLOYMENT

At this stage the product is set to be launched into the market along with the installation and documentation. The required software will be provided and the guidelines will be given about how to use the product. In this stage the client is also trained about how to use the software like what to enter where.

MAINTENANCE

• Updates will be provided if there are any bugs or difficulties faced by the customers.

• Bugs will be fixed with the help of the software developers.

RESPONSIBILITY

Name, Role and Position, E-mail, Software developer, Programmer

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

User requirements:

The system will be designed to be user friendly. The user friendly and interactive interfaces design helps to achieve this by enabling customers to easily browse through the menus place orders with just a few clicks and also allows restaurant employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion. The system will be simple to use.5.3.1

Functional requirements

Functional requirements define the capabilities and functions that a system must be able to perform successfully. The functional requirements of this online ordering system include:

The system shall enable the customer to view the products menu, create anaccount, login to the system and place an order.

The customer shall specify whether the order is to be picked up or delivered

The system shall display the food items ordered, the individual food item pricesand the payment amount calculated.

The system shall prompt customer to confirm the meal order.

The system shall provide visual confirmation of the order placement

REQUIREMENT ANALYSIS

Software requirements

Operating system: Windows XP / windows 7

Technology: PHP

Database: MySQL

Tool: Dreamweaver

Antivirus software

Backup & Data Recovery software5.4.2

Hardware requirements

Processor: Intel dual core or above

Processor Speed: 1.0GHZ or above

RAM: 1 GB RAM or above

Hard Disk: 20 GB hard disk or above

Printer for printing reports

Uninterruptible power supply to ensure a constant access of data.

USB flash disk (At least 2GB)

PROJECT APPROACH

For my project I plan to use waterfall as a process model. The waterfall model is a sequential design process, often used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing and Maintenance.

