CHP 3: Requirement Analysis

3.2 Functional, non-functional requirements and system requirements**:**

**Functional requirements of a system are as follows:**

1) Enables the user to register to the system by filling the details and creating a password.

2) Authenticate and allows the user to login.

3) Users can login into the accounts by using the user id and password.

4) Users can search the desired product if available.

5) Products will show Products under those category.

6) Inventory will show how much we spend on inventory.

7) For order you need to select product, quantity. Then order will be booked.

8) Once order is placed online, home delivery feature is available.

9) The selected product would be added to the cart and the total price will be calculated.

10) The system will allow the user to pay for the order through online mode.

11) The system will provide a help customer service to the user to convey any problem if they have.

12) This system will provide appropriate details regarding coffee drinks, snacks, deserts, etc.

13) This system will have separate sections like Coffee drinks, snacks, deserts, etc.

14) This system should consider any grievance or feedback consider by the user.

15) Tables will get booked online through this system.

Non-functional requirements of a system are as follows:

1. Usability: This System is designed to have a user -friendly environment and all the information is easily accessible.
2. Performance: This system will give you quick response for every request. The downtime is very less as it is administrative system, which will increase the overall performance of the system.
3. Reliability: This System will give admin or staff fast and satisfactory results, and will also make sure the results are free of error which will help users to be reliable on the system.
4. Security: All the data regarding staff information's, order taken, their payment, etc. should be secured and should not be disclosed to anyone and not be misused.
5. Data Integrity: The function of data integrity is provided by the system. The data will be stored in data in a very structured manner by using proper attributed. The data in this system will be modifying continuously.

System Requirements are as follows:

1. Registration:

Function: The user must register their account in order to use this site.

Input: Name, phone number, address and password.

Output: Registered Successfully.

Action: After Registration, an account for user will get created.

Pre-Condition: User must provide details like phone number, name, address, etc.

Post-Condition: User can login to the account with registered username and password.

1. Login:

Function: The user have to login in the system by username and password.

Input: Username, password

Source: admin, staff

Output: logged in to the System.

Destination: Data will get stored in database.

Action: After providing username and password user will logged in.

Pre-Condition: User must provide username and password.

Post-Condition: Login Successfully.

1. Order:

Input: Select Category, product, quantity.

Source: staff, admin, etc.

Output: Order placed.

Action: After providing category, product, quantity order will placed.

Pre- condition: User must provide category, product, quantity.

Post-Condition: Order placed and after completed order will be generated.

1. Add to cart :

Description: After login, user will search their items and go to add to cart.

Input: Selecting any coffee product-profile.

Source: User.

Output: Profile are added to cart.

Action: After selecting option for “add to cart” for any coffee product-profile, profile will get added to user’s favorite list.

Pre-Condition: User must be logged in to their account.

Post-Condition: Profile added to favorite.

1. Feedback :

Description: User will be able to post their opinions and reviews on the forum.

Input: Reviews and Opinions.

Source: User.

Output: Posted successfully.

Destination: Uploaded on the database.

Action: User will write and post.

Pre-Condition: User has to be logged in.

Post-Condition: Comment will be displayed on the top of forum.

6) Payment:

Description: Users will get all the information about item, quantity and price.

Input: Item, name, Quantity and Price.

Source: User.

Output: Item will get added in inventory.

Destination: Data will get stored in database.

Action: After providing name, Quantity, price item will get added with date.

Pre-Condition: User must provide item, name, quantity and price.

1. Inventory:

Input: Item name Quantity and Price

Source: admin

Output: Item will get added in inventory.

Destinations: Data will get spared in database

Action: After providing name, Quantity price item will get added with date

Pre-Condition: User must provide item name. Quantity and Price.

Post-Condition : Item added in list inventory

1. Table:

Input: Table capacity.

Source: admin

Output: Table will get added in table list

Destination: Data will get stored in database

Action: After providing Table name, capacity table will get added.

Pre-Condition: User must provide table name, capacity.

Post-Condition: Table added

8) Staff details:

Input: staff Name, staff phone, aadhar number, email, address.

Source: admin

Output: Staff will get added in staff list.

Destination: Data will get stored in database

Action: After providing staff attribute information will get added.

Pre-Condition: admin must provide staff Name, staff phone, aadhar number, email, address.

Post-Condition: Staff added into staff table.

CHP NO:2

Survey of Technology

Front-end languages:

1) HTML

2) CSS

3) JavaScript

4) Bootstrap

5) Tailwind CSS

6) ASP.NET

HTML

HTML is a marker language. It provides the structure of a website so that the web browser knows what to show. HTML is a text-based approach to describing how content contained within an HTML. It shows how to display text images and other forms to display text images and other forms of multimedia on web page.

CSS

CSS is a cascading style sheet. CSS lets the web designer change color font, animation and transition on the web. They make the web look good. It helps to make web pages more attractive.

JavaScript

Java script is a programming language for the web script can be calculated manipulated and validity the data. It is a dynamic computer programming language. To interact with the user and make dynamic pages.

Bootstrap

It is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular CSS framework for developing responsive mobile first websites. Nowadays the websites are perfect for all the browsers and for all sizes of screen.

Tailwind CSS

Tailwind CSS is a utility-first CSS framework that streamlines web development by providing a comprehensive set of pre-designed, low-level utility classes. Developers can efficiently build user interfaces by applying these classes directly in the HTML, enabling quick and flexible styling without adhering to a predefined design. Tailwind promotes readability, maintainability, and a rapid development workflow.

ASP.NET

It is a web development platform which provides a programming model, a comprehensive software infrastructure and various services required to build robust web applications for PC as well as mobile devices. ASP.NET works on top of the HTTP protocol and uses the HTTP commands and policies to set a browser to server bilateral communication and co-operation. ASP.NET is a part of Microsoft .NET framework.

Back-end languages

1. Mongo DB
2. MySQL
3. PHP

MongoDB:

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows it to work with the data very efficiently. It is categorized under the NoSQL database because the storage and retrieval of data in the MongoDB are not in the form of tables. The data model that MongoDB follows is highly elastic one that lets users combine and store data of multivariate type without having to compromise on the powerful, indexing options, data access and validation rules.

MySQL:

MySQL is relational database management system (RDBMS) developed by oracle that is based on structural query language (SQL). MySQL is a fast, easy to use. RDBMS being used for many small and big business. MySQL provide an implementation of a SQL database very well suited for small to medium web pages. A database is just a structured collection of data that is organized for easy use and retrieval. Common application for MySQL includes PHP and JAVA based web application that require a DB storage backend.

PHP:

PHP is a server scripting language and a powerful tool. It is the most popular scripting language for web development. It is free open source and server side. It helps to create dynamic and interactive web pages.