Project name: Online Food Ordering System

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Table of Contents

Introduction

The proposed system of this document is to build an online food ordering system to order various foods and beverages from some registered restaurants and hotels through the use of internet, just by sitting at home or any place. Choosing desired food item from different restaurants is very time consuming. This system will save our valuable time as well as consumer do not need to go for searching food and restaurant, and also taking foods etc. In our system, any restaurants can resister so that users can find many restaurants in one platform. Customer can easily search foods and restaurants, and order food what they want to take through our website. After getting all the products in hand, they have to pay.

Background and Product Context

Online Food Ordering System is a process in which one can order various foods from some local restaurants and hotels. Many restaurants have their own website and consumer can order food. But there are not as many platform where many restaurants belong in one place. So, customers can choice desired restaurants and order the foods.
It is reasonable to say that this food ordering system will much helpful to the people and also save valuable time.

The online food ordering system provides the menu online and the customers can easily place the order by just clicking the mouse. Also, with the food ordering system online, people can easily track their orders, and admin can maintain customer's database and advance the food delivery system. This food ordering system allows the user to select the desired food items from a list of available menu items provided by the local hotel or restaurant. The user can place orders for the food items of their like from the list.

In this system, a user register in the site and search desired food item and order through online. Users of an online food ordering website can use features like order food and search food. Another user of this website is restaurant owner. They are registered as restaurant and upload food items and delete food items. They can see the ordered items of customers and deliver those. This program offers a complete and easy way to order different types of food items through the internet. Its main objective is to set up an online food ordering environment that allows users to order foods and restaurants to upload their foods and deliver the desired one.

User Story

Use Case 1:

The ‘user’ needs to sign up to the system.

a) Go to the home page of “Online Food Ordering System”
b) Click on sign up button
c) Select ‘Customer Signup’
d) Enter name, valid email, password, phone number, and address
e) Account is created and stored in the database.

Use Case 2:

The ‘user’ can log in to the system

a) Go to the home page of “Online Food Ordering System”
b) Click on login button
c) Select ‘Customer Login’
d) Enter required information and click login

Use Case 3:

The ‘user’ can search for restaurants.

a) Go to the home page of “Online Food Ordering System”
b) Login to the system
c) Go to search bar
d) Type restaurant name and enter

Use Case 4:

The ‘user’ can add food to the cart.

a) Go to the home page of “Online Food Ordering System”
b) Login to the system
c) Click on the desired food item and add it to the cart
d) User can also remove item from cart

Use Case 5:

The ‘user’ can place an order

a) Go to the home page of “Online Food Ordering System”
b) Login to the system
c) Add items
d) Go to cart page
e) Place order

Use Case 6:

The 'restaurant' needs to sign up to the system.

a) Go to the home page of "Online Food Ordering System"
b) Click on sign up button
c) Select 'Restaurant Signup'
d) Enter restaurant name, valid email, password, phone number, and address
e) Account is created and stored in the database.

Use Case 7:

The 'restaurant' can log in to the system

a) Go to the home page of "Online Food Ordering System"
b) Click on login button
c) Select 'Restaurant Login'
d) Enter required information and click login

Use Case 8:

The 'restaurant' can add or delete food item.

a) Go to the home page of "Online Food Ordering System"
b) Login to the system
c) Add food item or delete food item

Limits

There are some limitations for the current system to which solutions can be provided as a future development.

a) The user can't pay through online
b) The user can't have multiple shopping carts

Solution Description

Architecture

All the restaurant details, food details, and user details will store in the database.

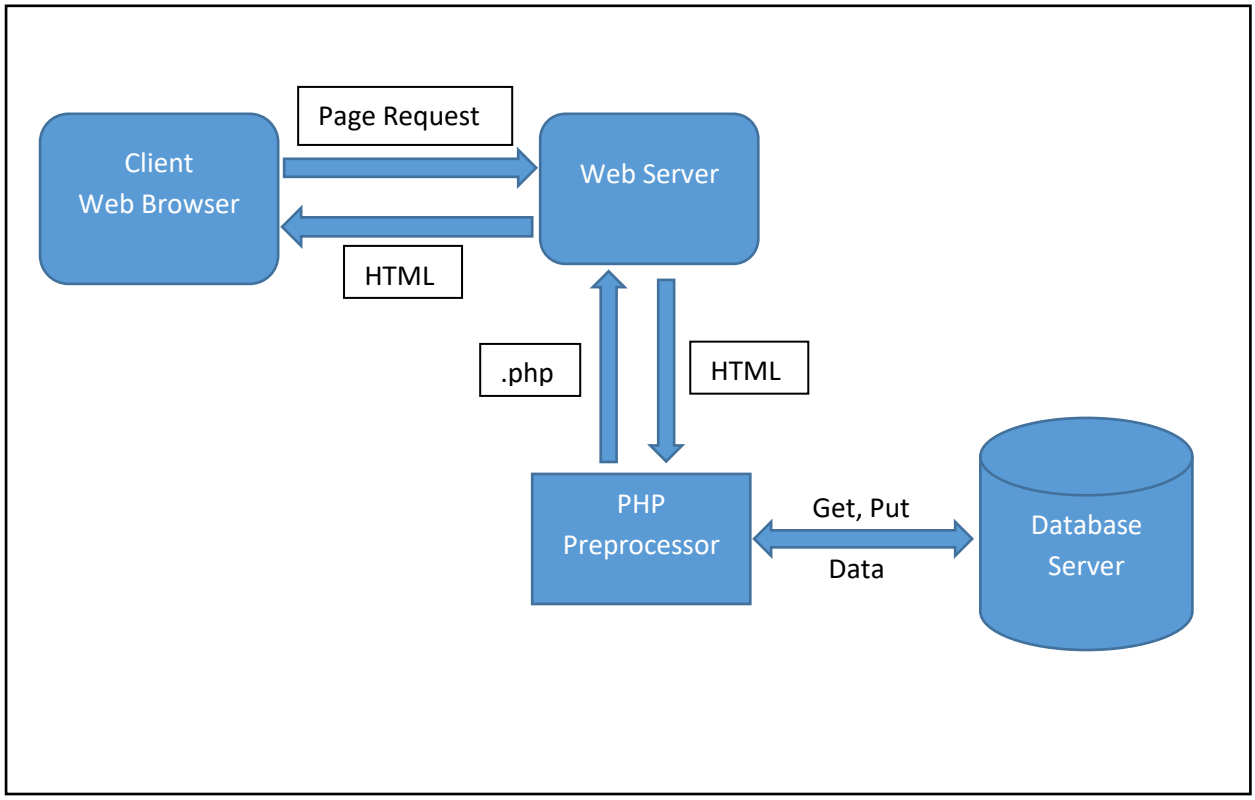

Figure 1: Architecture plan

Front end plan

A total of 5 page-templates in plan

1. Main page
2. Search result page
3. Food details page
4. Restaurant details page
5. Register/login page

Back end development

1. Account Creating:
    a. Sign up form
    b. Login
    c. MySQL Database

2. Profile Management:
    a. Users' Profile
    b. Restaurants' Profile
    c. Ordering system
    d. DB plan design
    e. Others
3. Searching facility:
    a. Food search
    b. Restaurant Search

Performance plan

Open-source web page tester (https://www.webpagetest.org/)

- For TTFB < 200ms
- Compressed data transfer,
- Image compression all image
- static content caching
- Use separate media server for faster media delivery
- Use Bangladeshi CDN for minimum latency.

Google Page evaluation (https://developers.google.com/speed/pagespeed/insights/)

- Mobile 80/100 (bdjobs.com at 74/10)
- Desktop 85/100 (bikroy.com at 85/100)
- Average TTFB < 200ms
- Average DOMLoading < 3sec
- Maximum Page Loading time < 7 sec