Project Report

For

Food Store Management System

Advanced Web Software (CS6301)

Prepared by

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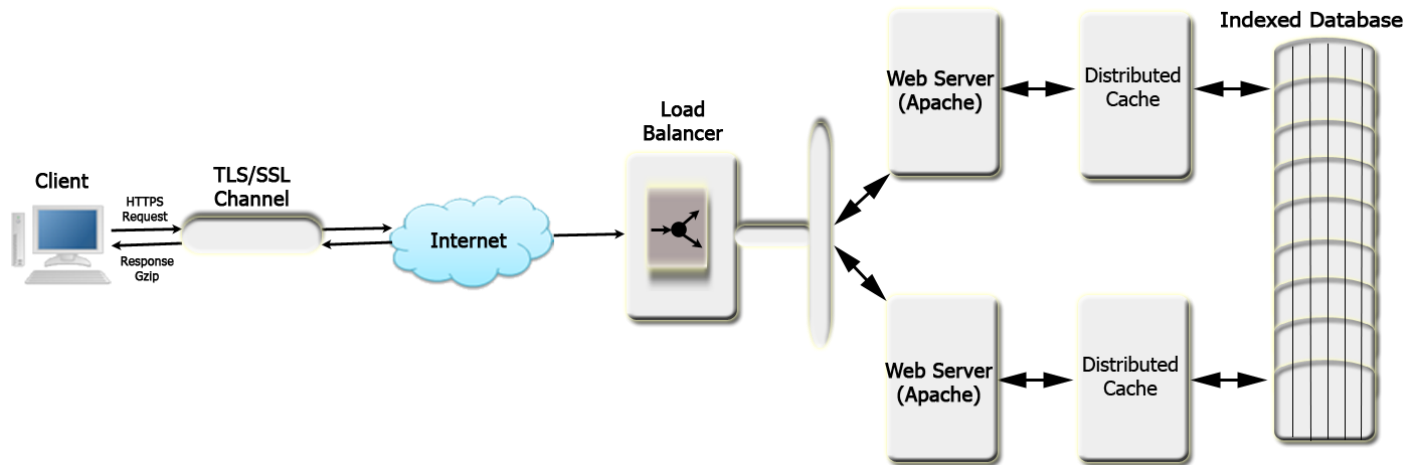**Ramanan Vellore Ramesh (rxv130830@utdallas.edu)**

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1. Architectural Diagram

The following architectural diagram shows the interaction between the various components of the project.

2. Services Available

Some of the services made available are listed below

- Retrieve order information including billing/shipping info and order details.
- Retrieve product information including stock, pricing, description, categories.
- Access customer information and order history.

3. Site Flow

The goal of this project is to make an online sweet store where the admin can maintain an online portal where he can maintain the stock/price of his products.

3.1 Types of Users

There are two types of users

- Admin
- Customer

3.1.1 Admin

The admin user indicates the shop owner. The list of functionalities available for an admin user are listed below

- Check orders

- Customer list
- Create group/category
- Create product
- Create Payment types
- Create Shipping option
- Make discount codes
- Stock Manager
- Technical tools

Check orders

This module allows the admin to see the list of the incoming customer orders which he gets from the customers. Each order has a self-generated pdf form with the following information

- List of products ordered
- Shipping address
- Payment method

The admin has the privilege to update the status of the order and can even cancel an order. A email is send to the customer once the status of an order changes.

Customer list

This module allows the admin to see the list of customers registered under his site. The admin can

- Send mail to the customer
- View customers order history
- View customers cart
- Delete customer
- View customers shipping info, contact number etc.

Create group/category

This module allows the admin to create new groups and categories to list the products. Each time a new group is added it gets added to the menu list. The category of a group gets added as a sub-menu to the menu.

Create product

This module allows the admin to create new products in his site. He can describe the product details and upload pictures of the product and specify the unit cost. The admin can also maintain a stock count of the product.

Create Payment types

This module allows the admin to create a list of payment portals that he would allow his customer to pay for the products that they have ordered.

Create Shipping option

This module allows the admin to create a list shopping options from which customer can pick from while checking out the product.

Make discount codes

This module allows the admin to create a list of auto generated discount code which he can share with his customers as a way to promote his business.

Stock Manager

This module allows the user to check if the stock of a product is below 10 (*default setting*) units. We also have a notification feed which would alert the admin once the stock drops the default line.

Technical tools

This module allows the user to check the technical aspects of the site such as the error-log, access-log and the mailing list.

3.1.2 Customer

The customer user indicates the users who would like to purchase from the site. The list of functionalities available for a customer users are listed below

- Register
- Checkout products
- Update info

Register

This module allows a guest user to register into the site with his contact/shipping details. Once the user registers a mail is send to the user with his login details.

Checkout products

This module allows the customer to add products from the shop to his/her cart. Once s/he checks out the products an email is send to the customer with the order details and id. A link to track the status of the order is also send with the mail.

Update info

This module allows the customer to update his/her profile info and shipping information.

4.   Technology Used

Frontend

For the frontend we have used the following technologies

- HTML
- CSS3
- Javascript

Backend

For the frontend we have used the following technology

- PHP

Server Configuration

The server configuration is Apache/2.4.7 (Win32) OpenSSL/1.0.1e PHP/5.5.6 MySQL/ 5.0.11

Services

We used soap Server-client with wsdl for passage of request – response mechanism since authentication was involved.

5.   Problems Faced

Soap client-server configuration:

Integration of java based soap server-client into our php code base. The bridge between java and php was not well configured. Then we had to deprecate the code written and start fresh soap server-client using php.

Memcache Configuration

We faced some issues while setting up the memcache. The dll file that we initially found was not supported by PHP 5.5.6. Due to which we got the following error.

```
PHP Warning:  PHP Startup: memcache: Unable to initialize module
Module compiled with module API=20060613
PHP    compiled with module API=20090626
These options need to match in Unknown on line 0
```

So, we initially thought of downgrading our PHP version as we were not able to find a dll which supported our current version. To downgrade our current PHP version we decided to downgrade our XAMPP version to 1.5. This led to various other problems like class not found errors (SOAP Classes) in our PHP code as we have used some class functions which were new in PHP 5.5.6.

So, we searched for the dll version one final time and we finally found it in a comment given in the [php.net](php.net) site. Once we changed the dll file the memcache was working fine.