COSC 304 – Introduction to Databases

Final Project Design Document:

Harvest Grocery Store

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# 1.0 Introduction

## 1.1 Mission Statement

The goal of our project is to create and implement a system that will be able to let local agriculturists, fishermen and livestock producers sell their products to a wider audience, using a website. We plan to create this website to allow customers to purchase these local goods and have them shipped to their door, all without leaving their house.

## 1.2 Purpose of Document

The purpose of this document is to outline the design requirements and underlying structure used to create Harvest Grocery. This will be done by showcasing a walkthrough of what the user’ experience would be.

## 1.3 Executive Summary

As the internet has become more prevalent in everyday life the number of people that do online shopping has increased. This trend of increased online purchases has had a huge impact on local businesses that depend on nearby residents to sell their products to. If one of these businesses were to create a website to sell their goods, this website would generally have too small of a catalogue to entice people to make purchases from it. Why would the average person make five purchases from different websites when they can make one with all the same products. To counteract this problem, we propose the creation of a single website that can list all the goods produced by local agriculturists, fishermen and livestock producers, Harvest Grocery.

Anyone would be able to browse the products and add them to a cart, however to purchase them the customer would be required to create an account. To create an account the customer would need to provide a first and last name, email, phone number, address city, state, postal code, country, username and a password.

Additionally, employees would be able to login to the website and would be able to view all customers and make modifications. The administrator privileges allow for the addition of new products, addition of a photo for a product, as well as, viewing the total sales/orders.

# 2.0 User Walkthrough

To navigate to our website Harvest Grocery, enter the URL [] in the web browser of your choice. This will take you to the homepage of our project.

## 2.1 Homepage

Upon visiting Harvest Grocery all users are directed to the homepage, which showcases the . From the homepage a user can access the following pages:

## 2.2 Products

On the products page it is possible for the user to navigate the products by either scrolling through the list of available products or by filtering the products. The filtering options for the products are to search for a word or a phrase or by filtering the products based on their category. Both filtering methods can be used in conjunction to further narrow results. From this page it is also possible for the user to add the product to their cart.

### 2.2.1 Product Details

When a user wants a more details about the product, they can click on it to bring up details about it. This new page shows a picture of the product, along with a description to help the customer make a decision about the product.

## 2.3 Login/Logout

The Login/Logout option varies in use depending on if the customer is currently logged into the website. When a user is logged into the website their name is displayed in the navigation bar. In the event the user is logged in, pressing logout will cause the website to log them out, removing the customer’s access to the account until logged back in. Alternatively, if the user is not logged in, they will be taken to a new page that prompts them for their username and password. This page also allows for users without an account to create a new account.

### 2.3.1 Create an Account

If the user wants to create a new account, they are redirected to another page that asks the user for all the required information to make an account. This information consists of a first and last name, email, phone number, address city, state, postal code, country, username and a password. When the user submits this information to create the account, it is first verified to contain valid information.

## 2.4 Shopping Cart

### 2.4.1. Checkout

## 2.4 Administration

When a visitor to the website is an employee of the website, they are granted special administrator permissions upon logging in. These permissions allow for the employee to access a new portion of the website, the administration page.

# 3.0 System Features

## 3.1 Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Executive Summary | 2 | 2 | COSC304Documentation.docx |
| System Features | 2 | 2 | COSC304Documentation.docx |
| Walkthrough with screenshots | 6 | 6 | COSC304Documentation.docx |
| Total Points | | 10 |  |

## 3.2 Hosting

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Running on Cosc304 or external server | 5 | 5 |  |
| Total Points | | 5 |  |

## 3.3 Main/Home Page

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Search for a product by name | 1 | 1 |  |
| Browse products by category | 1 | 1 |  |
| List products (by search/browse) | 1 | 1 |  |
| List products with image | 1 | 1 |  |
| Page header with menu | 1 | 2 |  |
| Page header shows currently logged in user | 1 | 2 |  |
| Dynamic products on page based on sales | 2 | 2 |  |
| Improved UI | 2 | 2 |  |
| Total Points | | 10 |  |

## 3.4 Shopping Cart

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Add to shopping cart | 1 | 1 |  |
| View shopping cart | 1 | 1 |  |
| Update quantity (with data validation) | 2 | 2 |  |
| Remove item from shopping cart | 1 | 1 |  |
| Total Points | | 5 |  |

## 3.5 Checkout

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Checkout with customer id | 1 | 1 |  |
| Total Points | | 1 |  |

## 3.6 Product Detail Page

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Product detail page and item description | 1 | 1 |  |
| Product detail page has an image | 1 | 1 |  |
| Product detail has an image from database | 1 | 1 |  |
| Total Points | | 3 |  |

## 3.7 User Accounts/Login

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Create user account page | 3 | 3 |  |
| Create account with data validation | 3 | 3 |  |
| Login/logout | 2 | 2 |  |
| Total Points | | 8 |  |

## 3.8 Product Reviews

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Executive Summary |  |  |  |
| System Features |  |  |  |
| Walkthrough with screenshots |  |  |  |

## 3.9 Warehouses/Inventory

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Executive Summary |  |  |  |
| System Features |  |  |  |
| Walkthrough with screenshots |  |  |  |

## 3.10 Administrator Portal

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| Secured by login | 1 | 1 |  |
| List all customers | 1 | 1 |  |
| List report showing total sales/orders | 1 | 1 |  |
| Add new product | 2 | 2 |  |
| Upload a photo to file system for product | 2 | 2 |  |
| Total Points | | 7 |  |

## 3.11 Database System/General

|  |  |  |  |
| --- | --- | --- | --- |
| System Feature | Possible Points | Points | Comments/Code Files |
| User interface and navigation/usability | 5 | 5 |  |
| Total Points | | 5 |  |