THE PC PARTS PLACE

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CST-451 Capstone Project Final Plan Document

Grand Canyon University

Instructor: Professor Amr Elchoumi

Revision: 1.1

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**ABSTRACT**

The project is to cover creating the necessary features and abilities of an e-commerce site. This document will introduce the finalized design plan prior to implementation and testing takes place. This plan is designed to share with stakeholders and includes a change log template to document any required changes.

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| --- |
| History and Signoff Sheet |

**Change Record**

|  |  |  |
| --- | --- | --- |
| **Date** | **Author** | **Revision Notes** |
|  |  | Initial draft for review/discussion |
|  |  |  |
|  |  |  |

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| **Overall Instructor Feedback/Comments** |

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**Integrated Instructor Feedback into Project Documentation**

Yes  No

**Implementation Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | User Story | List of Tasks | Est. (hours) | Actual (hours) | Percent Complete |
| 1 | As a customer, I would like to be able to create an account with the site | Create Customer ViewModel  Create Customer DataModel  Create Customer Controller  Create AddCustomer View  Create AddCustomer logic  Create Customer Helper  Create Customer BizLogic | 4 | 4 | 100% |
| 2 | As a customer, I would like to be able to login | Add Sessions to project  Add Login View  Add authentication to Customer BizLogic | 2 | 2 | 100% |
| 3 | As a customer, I would like to be able to add products to my cart | Create Cart model  Create Cart view  Create Cart Session Value  Create Cart Table  Create Cart BizLogic | 3 | 1 | 33% |
| 4 | As a customer, I would like to be able to view an individual product | Create Product View Model  Create Product Data Model  Create Product View  Create Product BizLogic  Create Product Helper | 4 | 1 | 25% |
| 5 | As a customer, I would like to be able to browse through multiple products at once | Create Product Partial Views  Implement Product Cards | 4 | - | -% |
| 6 | As a customer, I would like to be able to place an order for products in my cart (checkout) | Create Checkout Process  Create Order View Model  Create Order Data Model  Create Order Lines View Model  Create Order Lines Data Model  Create Order BizLogic  Create Order Helper  Create Order Table  Create Order Lines Table | 6 | 2 | 33% |
| 7 | As a customer, I would like to be able to search for a product | Create Search Form  Determine Search parameters and criteria | 2 | - | -% |
| 8 | As a customer, I would like to be able to filter search results | Implement Filter buttons based on Product criteria | 2 | - | -% |
| 9 | As a customer, I would like to be able to edit account information | Create Edit View  Create Edit Logic  Add EditCustomer to BizLogic | 2 | - | -% |
| 10 | As a customer, I would like to be able to delete my own customer account | Create Delete View  Create Delete Logic  Add DeleteCustomer to BizLogic | 2 | - | -% |
| 11 | As an employee, I would like to be able to create and edit customer accounts | Create Employee View Model  Create Employee Data Model  Create Employee Login View  Create Employee Account Lookup View  Create Employee Account Edit Form  Create Employee Account Edit BizLogic | 4 | - | -% |
| 12 | As an employee, I would like to be able to add products | Create Product Add View  Create Product Add BizLogic | 2 | - | -% |
| 13 | As an employee, I would like to be able to edit products | Create Product Edit View  Create Product Edit BizLogic | 2 | - | -% |
| 14 | As an employee, I would like to be able to delete products | Create Product Delete View  Create Product Delete BizLogic | 2 | - | -% |
| 15 | As an administrator, I would like to be able to edit all user accounts | Create Admin Authentication  Create Admin security to edit Employee Accounts | 2 | - | -% |
| 16 | As an administrator, I would like to delete all user accounts | Create Security to prevent Employees from deleting employee or admin accounts  Prevent Employees from being able to create or edit Admin accounts | 3 | - | -% |

Test Plan

Continually test all pieces of functionality while implementing new features. Old features must not break by creating new ones. For every feature, there must be a test for both correct parameters and intentionally incorrect parameters to ensure the application handles user errors without failing. Test Cases shall be written after initial implementation of each component to thoroughly document all needed tests for each component.

Video link for demo of Application

<https://www.loom.com/share/90cb8f6435bc406d883e56ea38806f48>

GitHub link

<https://github.com/The-Bowman/CST451.git>