PSD Final Assignment Documentation



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Declaration of Ownership

This is to certify that the work here presented is entirely my own and that all external sources have been fully acknowledged.

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Table of Contents

[Introduction 4](#_Toc161084086)

[Diary Report 5](#_Toc161084087)

[Understanding of Project – Step 1 6](#_Toc161084088)

[Analysis of the Problem – Step 2 8](#_Toc161084089)

[Analysis the tasks 8](#_Toc161084090)

[Design of Complex Tasks – Step 3 10](#_Toc161084091)

# Introduction

This is the final assignment require by the school which is Technological University Dublin that we need to create and design a stock control system which will contains three steps.

# Diary Report

1. DAY 1 – 11/03/2024 – Monday

* On this day, the developer has start creating the file for OOSD & PSD and start doing the PSD documentation with the actual template.

1. DAY 2 – 12/03/2024 - Tuesday

# Understanding of Project – Step 1

This section can be categories into three part which is descript the problem that been solve, lists out all the data that need to be solve, and convert the data.

1. Problem and solving

* This part will be about all the problem that the developer currently facing and how was the problem been solving. This also include the detail of the business and the type of products that will be processed and an indication of developer personal action.

1. Lists out all the data

* This part will basically cover all the important value that will be use in the program.

1. Convert the data

* This part will convert the data in the program into variable name with the sample value.

# Analysis of the Problem – Step 2

This section will be colouring all the coded numbered steps/task and analysis the thing that has to be done. However, this section will not include the actual code and any sort of text that relevant to the code itself, yet it will only analysis how the tasks is been distribute and will be implemented.

**Colour example as below;**

|  |  |
| --- | --- |
| Blue - | Designing the data type |
| Green - | The tasks that doesn’t need design |
| Yellow - | The tasks need to be design |

## Analysis the tasks

1. Creating the data type for Inventory
2. Creating data type for Mobile
3. Creating data type for Mobile
4. Ask the customer to enter the option 1 - 3
5. Option 1 – Customer Menu
   1. Display the menu 1 – 5.
   2. Ask the customer to pick the option above.
6. Customer menu option 1 – Display all the mobile for sales

6.1 If there is no stock, display no products found in stock

1. Customer menu option 2 – Display all the laptop for sales

7.1 If there is no stock, display no products found in stock

1. Customer menu option 3
   1. Ask the customer what the branch of the phones.
   2. Ask the customer how many you wished to purchase
   3. If the branch of the laptop or currently no stock, display not found or no stock
      1. If there is enough stock, calculate the prices and display purchase successful
      2. If there is not enough stock, display the purchase couldn’t process due to not enough stock and no action taken.
2. Customer menu option 4
   1. Ask the customer what the branch of the laptops.
   2. Ask the customer how many you wished to purchase
   3. If the branch of the laptop or currently no stock, display not found or no stock
      1. If there is enough stock, calculate the prices and display purchase successful
      2. If there is not enough stock, display the purchase couldn’t process due to not enough stock and no action taken.
3. Customer menu option 5 – Go back to the main menu
4. Option 2 – Staff Menu
   1. Display the menu 1 – 4.
   2. Ask the customer to pick the option above.
5. Staff Menu Option 1 – Ask the staff to add the new type of mobile phones to the stock list

12.1 Ask the staff to input the brand of the mobile phone.

12.2 Ask the staff to input the prices of the mobile phone.

1. Staff Menu Option 2 – Ask the staff to add the new type of laptops to the stock list

13.1 Ask the staff to input the brand of the laptop.

13.2 Ask the staff to input the prices of the laptop.

1. Staff Menu Option 3 – Update the stock level for new products with new delivery
   1. Ask the staff did you wish to update the stock level.
   2. If yes, Ask the staff to input the brand.

14.3.1 If the brand found on the list, Ask the staff how many you wished to purchase.

14.3.2 Calculating the stock and prices in total.

14.3.3 Display a message that the stock has been delivered.

* 1. If no, the delivery will be cancelling and display message to inform staff.

1. Staff menu Option 3 – Go back to the main menu.
2. Option 3 – Exit the program.

# Design of Complex Tasks – Step 3

This section will need the developer think about how to implement the task for any tasks that need to be design like yellow and blue colour. Check out the colour example on step 2 (Analysis of the program).