James Lee

10/16/19

COMP 3700

Project 1

1. Use Cases

1.1 Common Use Case

A. Add new product successfully to the system

B. Actors: Owner, manager, employee

C. Goals: Add new product to the system

D. Preconditions: System in the main screen

E. Summary: Add and complete product in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add product”   Display Main Screen | 1. Display “Add Product” Screen   “Add Product” screen |
| 1. Input data then click “Add” button   “Add Product” screen | 1. Hide “Add Product” screen and display “Add Product Successfully”   “Add Product Successfully” screen |
| 1. Click on “Ok” button | 1. Display “Main” screen |

1.2 Use Case Exception

A. Add new product failure to the system

B. Actors: Owner, manager, employee

C. Goals: Failure to add new product to the system

D. Preconditions: System in the main screen

E. Summary: Failure to add and complete product in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add product”   Display Main Screen | 1. Display “Add Product” Screen   “Add Product” screen |
| 1. Input INCORRECT data then click “Add” button   “Add Product” screen | 1. Hide “Add Product” screen and display ERROR MESSAGE pertaining to specific error   “Display error message” screen |
| 1. Click on “Ok” button | 1. Display “Add Product” screen, fix errors, and attempt to add product again. |
| 1. If success, Display “Main Screen”   Display Main Screen | |

Use Case:

2.1 Successfully add new customer to the system

A. Add new customer to the system

B. Actors: Owner, manager, employee

C. Goals: Add new customer to the system

D. Preconditions: System in the main screen

E. Summary: Add and complete customer in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add Customer”   Display Main Screen | 1. Display “Add Customer” Screen   Add Customer screen |
| 1. Input data then click “Add” button   “Add Customer” screen | 1. Hide “Add Customer” screen and display “Add Customer”   “Add Customer Successfully” screen |
| 1. Click on “Ok” button | 1. Display “Main” screen |

Use Case:

2.2 Add new customer to system Exception

A. Add new customer to the system exception

B. Actors: Owner, manager, employee

C. Goals: Add new customer to the system

D. Preconditions: System in the main screen and user inputs incorrect information

E. Summary: Failure to add and complete customer in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add Customer”   Display Main Screen | 1. Display “Add Customer” Screen   “Add Customer” screen |
| 1. Input INCORRECT data then click “Add” button   “Add Customer” screen | 1. Hide “Add Customer” screen and display ERROR MESSAGE pertaining to specific error   “Display error message” screen |
| 1. Click on “Ok” button | 1. Display “Add Customer” screen, fix errors, and attempt to add customer again |
| 1. If success, Display “Main Screen”   Display Main Screen | |

Use Case: Add purchase to system

3.1 Successfully add purchase to system

A. Record purchase from customer to the system

B. Actors: Owner, manager, employee

C. Goals: Record purchase to the system

D. Preconditions: System in the main screen

E. Summary: Record and complete purchase in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add purchase”   Display Main Screen | 1. Display “Add Purchase” Screen   Add Purchase screen |
| 1. Input data then click “Add” button   “Add Purchase” screen | 1. Hide “Add Purchase” screen and display “Add Purchase”   “Add Purchase Successfully” screen |
| 1. Click on “Ok” button | 1. Display “Alert” message dialog |
| 1. Click on “Ok” button | 1. If success, Display “Main Screen”   Display Main Screen |

3.2 Failure to add purchase to the system

A. Failure to record purchase from customer to the system

B. Actors: Owner, manager, employee

C. Goals: Record purchase to the system

D. Preconditions: System in the main screen and user inputs invalid information

E. Summary: Failure to record and complete purchase in system

G. Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1. Choose command “Add purchase”   Display Main Screen | 1. Display “Add Purchase” Screen   Add Purchase screen |
| 1. Input INVALID data then click “Add” button   “Add Purchase” screen | 1. Hide “Add Purchase” screen and display ERROR MESSAGE pertaining to specific error   “Display error message” screen |
| 1. Click on “Ok” button | 1. Display “Add Purchase” screen, fix errors, and attempt to add customer again |
| 1. If add product success use case is achieved, display “Main Screen”   Display Main Screen | |

Database Idea:

