Introduction

# Purpose

The main purpose of this application is Manage Store for Buying Products from Suppliers and Selling this Products for Customers from Apply it Functional and Non-Functional Requirements, Also We Describe the System Using UML Analysis Models and Diagrams to Be Readable.

# Scope

The main Scope of the System to make the store faster and more regular than before from manage all it components from manage customers, Supplier, Employees and Bills from each product Come for the store or Leave it.

# Actors

|  |  |
| --- | --- |
| System Admin | The Person Who Analysis, Develop and Test the System, Who Make System maintenance. |
| System User | The Person Who use the System every day to Create Bills, enter new items, new Supplier, etc. |
| Store Owner | The Person Who has all access for each function in the application as add or block User of sys. |
| Staff Member | The Person Who Works in the Store for Give Servies for Customers. |
| Customer | The Person || Company Who Comes for the Store for Buy his Needs. |
| Supplier | The Person || Company Who Buy his Products for the Store. |

# 

Overall Descriptions

# Product Perspective

The Software is described in this SRS the system of the Store for Buy products, the software merge between the software system and the hardware system.

# Product Functions

System User will be able to Manage Categories

System User will be able to Manage Suppliers

System User will be able to Manage Employees

System User will be able to Manage Customers

System User will be able to Manage Bills

System User will be able to Manage Commitments

## Constraints

The System Must Use by Person Who Registered for the System, after Owner Permission and the System must have Perfect Connection with The Printer and all each other Components.

# Assumptions and Dependences

The System User must be able to using the laptop or the pc which running the system on it, must be have knowledge about English & Arabic to can dealing with the application.

Software Requirements Specification

# Functional Requirements

Each Function Can admin Do IT , the Owner Can DO IT , But not The Reverse.

## Manage Category

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MC | The System allows admin add new Category to System. |
| MC | The System allows admin modify Category data. |
| MC | The System allows admin Remove Category from System with all it related Products. |
| MC | The System allows admin Show all Categories data. |
| MC | The System allows admin Show Categories with It all Products. |
| MC | The System allows admin Search for a Category & get action as modify, remove and show. |
| MC | The System update the Category data, when effected by another components as add new Product for IT, etc. |

Table 1 of Functional Requirements of Manage Categories

## Manage User

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MU | The System allows Owner add new User to System. |
| MU | The System allows Owner modify User data. |
| MU | The System allows Owner Remove User from the System. |
| MU | The System allows Owner Show User data. |
| MU | The System allows Owner Show all Users with their data. |
| MU | The System allows Owner Block & Unblock User from the System. |
| MU | The System allows Owner Change User Password. |
| MU | The System allows User, admin and Owner Login to System with Limited Navigation at the System. |

Table 2 of Functional Requirements of Manage Users

## Manage Customer

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MC | The System allows admin add new Customer to System. |
| MC | The System allows admin modify Customer data. |
| MC | The System allows admin Remove Customer from System. |
| MC | The System allows admin Show all Customers data. |
| MC | The System allows admin Show Customer data with it deals with the company. |
| MC | The System allows admin Search for a Customer & get action as modify, remove and show. |
| MC | The System allows admin Block & Unblock Customer from System. |
| MC | The System update the Customer data, when effected by another components as order new bill, etc. |

Table 3 of Functional Requirements of Manage Customers

## Manage Supplier

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MS | The System allows admin add new Supplier to System. |
| MS | The System allows admin modify Supplier data. |
| MS | The System allows admin Remove Supplier from System. |
| MS | The System allows admin Show all Suppliers data. |
| MS | The System allows admin Show Supplier data with it deals with the store. |
| MS | The System allows admin Search for a Supplier & get action as modify, remove and show. |
| MS | The System allows admin Block & Unblock Supplier from System. |
| MS | The System update the Supplier data, when effected by another components as getting new bill of Products, etc. |

Table 4 of Functional Requirements of Manage Suppliers

## Manage Product

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MP | The System allows admin add new Product to System. |
| MP | The System allows admin modify Product data. |
| MP | The System allows admin Remove Product from System. |
| MP | The System allows admin Show all Products data. |
| MP | The System allows admin Show Product data. |
| MP | The System allows admin Search for a Product & get action as modify, remove and show. |
| MP | The System allows admin Set Prices for Product. |
| MP | The System allows admin Modify Prices of Product. |
| MP | The System allows admin Modify all Prices of all Products as Percent or Value. |
| MP | The System update the Product data, when effected by another components as be part of Customer Bill, etc. |

Table 5 of Functional Requirements of Manage Products

## Manage Bill

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MB | The System allows admin Create new Bill. |
| MB | The System allows admin Enter new Bill. |
| MB | The System allows admin modify Bill data. |
| MB | The System allows admin Remove Bill from System. |
| MB | The System allows admin Recovery Bill Products. |
| MB | The System allows admin Show all Suppliers Bills data. |
| MB | The System allows admin Show all Customers Bills data. |
| MB | The System allows admin Show Supplier Bill data. |
| MB | The System allows admin Show Customer Bill data. |
| MB | The System allows admin Search for a Bill & get action as modify, remove and show. |

Table 6 of Functional Requirements of Manage Bills

## Manage Employee

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| ME | The System allows Owner add new Employee. |
| ME | The System allows Owner modify Employee data. |
| ME | The System allows Owner Remove Employee from System. |
| ME | The System allows admin Show all Employees data. |
| ME | The System allows admin Show Employee data. |
| ME | The System allows admin Record Attendance for Employee. |
| ME | The System allows admin Record Absence for Employe. |
| ME | The System allows admin add Rival for Employee. |
| ME | The System allows admin add Bonus for Employee. |
| ME | The System allows Owner Search for a Employee & get action as modify, remove and show. |

Table 7 of Functional Requirements of Manage Employes

## Manage Commitments

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| MB | The System allows admin add new Commitment. |
| MB | The System allows admin modify Commitment data. |
| MB | The System allows admin Remove Commitment from System. |
| MB | The System allows admin Show all Commitments data. |

Table 8 of Functional Requirements of Manage Commitments

# Non-Functional Requirements

## Performance

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| PR | The System must run each operation in time less than 5 seconds. |
| PR | The System must response for the operation with message box in time less than 3 seconds. |
| PR | The System must run at each device using Window operating system. |
| PR | The System is responsive for each device screen size. |

Table 1 of non-Functional Requirements of Performance Requirements

## Security and Safety

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| SSR | The System can’t have ability for using if have not Username & Password. |
| SSR | The System Closed Automatic if not used for more than 1 hour without Use IT. |
| SSR | The System order the password when taking important action as removing data. |

Table 1 of non-Functional Requirements of Security and Safety

## Reliability

|  |  |
| --- | --- |
| Requirement ID | Requirement Description |
| R | The System Using object-oriented programming to divide the software into sub systems with separated Modules. |
| R | The System Using Exception Handling for each operation make by the admin. |
| R | The System have rules for each uncleared operation to be clearer. |

Table 1 of non-Functional Requirements of Reliability

## Useability

The System is Friendly for the user, so design of user graphical interface is clearer design for each user and using Arabic language to be easy for using.

## Availability

The System developed to be active all over the day for 24 hours in 7 days “week”, and developed to get the maintenance operation at less than 30 minutes.

System Design

# **Login**

## User Story

|  |  |
| --- | --- |
| User Story ID | US #1 |
| User Story Name | Login |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to login for the system  So, I can access all application functions as create, Enter Bill. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  When I fill inputs with correctly data,  Then system redirect me for home page. |

## Scenarios

### Normal Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. User Enter his Username 2. User enter his password 3. User Click Login button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display Home Page |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. User Click Login button |  |
|  | 1. Check Validation |
|  | 1. Pop up Error message Fill fields |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. User enter Username 2. User Click Login button |  |
|  | 1. Check Validation |
|  | 1. Pop up Error message Fill all fields |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. User enter Password 2. User Click Login button |  |
|  | 1. Check Validation |
|  | 1. Pop up Error message Fill all fields |

### Exceptional #4 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. Uset enter Username 2. User enter Password 3. User Click Login button |  |
|  | 1. Check Validation |
|  | 1. Pop up Error message data is not correct |

### Exceptional #5 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page 2. System Display the fields to fill it |
| 1. User enter Username 2. User enter Password 3. User Click Login button |  |
|  | 1. Check Validation |
|  | 1. Pop up Error message have no Users |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Username | < 20 of chars |
| Password | < 20 of Chars |

# **Category**

## Add New Category’s Data

## User Story

|  |  |
| --- | --- |
| User Story ID | US #2 |
| User Story Name | Add Category |
| Actors | Admin, Owner |
| Description | As Admin or Owner  After login to the system  So, I can add new category for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  can I add new category details for the system to works with it. |

## Scenarios

### Normal Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Add Category Button |  |
|  | 1. Display add category’s from |
| 1. User Enter Category’s Name 2. User enter Add Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display add category’s from |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Add Category Button |  |
|  | 1. Display add category’s from |
| 1. User enter Add Button |  |
|  | 1. System Check all fields filled 2. Display Error Message |
|  | 1. Display add category’s from |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Add Category Button |  |
|  | 1. Display add category’s from |
| 1. User enter Invalid Category’s Name 2. User enter Add Button |  |
|  | 1. System Check all fields filled 2. Display Error Message |
|  | 1. Display add category’s from |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Name | < 20 of chars |

## Modify Category’s Data

## User Story

|  |  |
| --- | --- |
| User Story ID | US #3 |
| User Story Name | Modify Category |
| Actors | Admin, Owner |
| Description | As Admin or Owner  After login to the system  So, I can update category’s data at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  can I update category’s details for the system to works with it. |

## Scenarios

### Normal Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Modify Category Button |  |
|  | 1. Display modify category’s from |
| 1. User Enter Category’s Old Name 2. User Enter Category’s New Name 3. User enter update Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display modfiy category’s from |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Modify Category Button |  |
|  | 1. Display Modify category’s from |
| 1. User enter Modify Button |  |
|  | 1. System Check all fields filled 2. Display Error Message |
|  | 1. Display Modify category’s from |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Modify Category Button |  |
|  | 1. Display Modify category’s from |
| 1. User enter Category’s Old Name || New Name Only 2. User enter Modify Button |  |
|  | 1. System Check all fields filled 2. Display Error Message |
|  | 1. Display Modify category’s from |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Old Name | < 20 of chars |
| New Name | < 20 of chars |

## Remove Category’s Data

## User Story

|  |  |
| --- | --- |
| User Story ID | US #3 |
| User Story Name | Remove Category |
| Actors | Admin, Owner |
| Description | As Admin or Owner  After login to the system  So, I can Remove category from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  can I Remove category details for the system to works with it. |

## Scenarios

### Normal Scenario #1

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Remove Category Button |  |
|  | 1. Display Remove category’s from |
| 1. User Enter Category’s Name 2. User enter Remove Button |  |
|  | 1. System Popup Confirm Message |
| 1. User Click Ok |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display Remove category’s from |

### Normal Scenario #2

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Remove Category Button |  |
|  | 1. Display Remove category’s from |
| 1. User Enter Category’s Name 2. User enter Remove Button |  |
|  | 1. System Popup Confirm Message |
| 1. User Click NO |  |
|  | 1. Display Remove category’s from |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Remove Category Button |  |
|  | 1. Display Remove category’s from |
| 1. User enter Remove Button |  |
|  | 1. System Popup Confirm Message |
| 1. User Click Ok |  |
|  | 1. System Check all fields filled 2. System popup Error Message |
|  | 1. Display Remove category’s from |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Remove Category Button |  |
|  | 1. Display Remove category’s from |
| 1. User Enter Category’s Name 2. User enter Remove Button |  |
|  | 1. System Popup Confirm Message |
| 1. User Click Ok |  |
|  | 1. System Check all fields filled 2. System Validation 3. System Popup Error Message “Name is not Fined” |
|  | 1. Display Remove category’s from |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Name | < 20 of chars |

## User Story

|  |  |
| --- | --- |
| User Story ID | US #4 |
| User Story Name | Show Categories |
| Actors | Admin, Owner |
| Description | As Admin or Owner  After login to the system  So, I can show all categories for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  can I show all categories details for the system to works with it. |

## Scenarios

### Normal Scenario

|  |  |
| --- | --- |
| 1. User Click Program Icon |  |
|  | 1. System Display the Login page |
| 1. User Enter to System 2. Click Category Section Button |  |
|  | 1. Display Category Functions from |
| 1. User enter Show Categories |  |
|  | 1. Display Show category’s from with Retrieved data |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen