# Software Requirements Specification

Workshop Aluminum System

Prepared by: Ahmed Osama

Organization:

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***Introduction***

# Purpose

The Main Purpose of this System is Manage Company of Aluminum Products With it all Components, From Apply It Functional and Non-Functional Requirements, Also We Describe the System Using UML Analysis Models and Diagrams to Be Readable.

# Scope

The Scope of this System is Giving the Company ability to be faster & more regular to be more Qualified fat it services, this from the ability to store all Customers & Works & Other Components with Organized Shape and to be able to get repeated reports about working quality & working pros and cons & incrementing the profits & getting more Customers.

# Actors

|  |  |
| --- | --- |
| Software Admin | The Person who Creating The software & making all maintenance at it & developing it |
| Company Owner | The Person who Created the Company & have all powers of controlling the system |
| Staff Member | The Person who works at company |
| Supplier | The Person who dealing with the company to sell his products to it |
| Customer | The Person who dealing with the company to get it services |
| System User | The Person who has ability to deal with the system to control it |

***Overall Descriptions***

# Product Perspective

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

# Product Functions

System User will be able to Manage Customers

System User will be able to Manage Staff Members

System User will be able to Manage Company Services

System User will be able to Manage Suppliers

System User will be able to Manage Company Components

System User will be able to Manage Extracting Reports

System User will be able to

# Constraints

The Software Must be Used by Only the Registered Used who have Username & Password to Login into System, Must Check Connection Between Laptop and Printer and Connection of Reliable Internet Connection.

# 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**

## 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 1 of Functional Requirements of Manage Customers

## Manage Login

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 1 of Functional Requirements of Manage Customers

## Manage Materials ‘Aluminum’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 2 of Functional Requirements of Manage Customers

## Manage Materials ‘Accessory

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 3 of Functional Requirements of Manage Customers

## Manage Materials ‘Glass’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 4 of Functional Requirements of Manage Customers

## Manage Materials ‘Board’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 5 of Functional Requirements of Manage Customers

## Manage Windows Discounts

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 6 of Functional Requirements of Manage Customers

## Manage Windows Discounts ‘Aluminum’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 7 of Functional Requirements of Manage Customers

## Manage Windows Discounts ‘Accessory’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 8 of Functional Requirements of Manage Customers

## Manage Windows Discounts ‘Glass’

|  |  |
| --- | --- |
| 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 update the Customer data, when effected by another components as order offer price, etc. |

Table 9 of Functional Requirements of Manage Customers

# **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. |
| SSR |  |

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. |
| R |  |

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***

# **Use case Model**

Image

# **System Navigation Map**

Image

# **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. |

### Normal #1 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 | < 50 of chars |
| Password | < 50 of Chars |
| Brach ID | Must be 1 |

# **Customers**

# Add Customer

## User Story

|  |  |
| --- | --- |
| User Story ID | US #2 |
| User Story Name | Add New Customer |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add customer for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add customer functions,  When I fill all customer data in inputs, Then, click at adding button;  Will pop up message for making sure customer entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s Name 2. User enter Customer’s Address 3. User enter Customer’s Mobile Number 4. User enter Customer’s WhatsApp Number 5. User enter Customer’s email 6. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display Popup to make sure Customer Added |
|  | 1. Display add Customer form (Empty Inputs) |

### Normal #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s Name 2. User enter Customer’s Address 3. User enter Customer’s Mobile Number 4. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display Popup to make sure Customer Added |
|  | 1. Display add Customer form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s data one or two from name & address & mobile 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s Name 2. User enter Customer’s Mobile 3. User enter Customer’s Address 4. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The Number is Invalid Number” |

### Exceptional #4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at add Customer Button |  |
|  | 1. System Display add Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s Name 2. User enter Customer’s Mobile 3. User enter Customer’s Address 4. User enter Customer’s Email 5. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The Email is Invalid Email” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Name | < 30 of chars |
| Address | < 50 of chars |
| Mobile | <= 15 of chars |
| WhatsApp | <= 15 of chars |
| Email | < 30 of chars |

# Modify Customer

## User Story

|  |  |
| --- | --- |
| User Story ID | US #3 |
| User Story Name | Modify Customer data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify customer at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify customer function,  When I fill all customer new data in inputs, Then, click at modify button;  Will pop up message for making sure customer updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display Popup to make sure Customer Modified |
|  | 1. Display modify Customer form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Customer’s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill data for update it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The ID is not Exists” |

### Exceptipnal#4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter Customer’s Mobile 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The Mobile Number is Invalid Number” |

### Exceptipnal#5 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter Customer’s WhatsApp 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The WhatsApp Number is Invalid Number” |

### Exceptipnal#6 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at modify Customer Button |  |
|  | 1. System Display modify Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter Customer’s Email 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The Email is Invalid Email” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |
| Name | < 30 of chars |
| Address | < 50 of chars |
| Mobile | <= 15 of chars |
| WhatsApp | <= 15 of chars |
| Email | < 30 of chars |

# Remove Customer

## User Story

|  |  |
| --- | --- |
| User Story ID | US #4 |
| User Story Name | Remove Customer data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove customer from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove customer function,  When I fill remove customer data in inputs, Then, click at remove button;  Will pop up message for making sure customer removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at remove Customer Button |  |
|  | 1. System Display remove Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to Confirm Message |
| 1. User Click ok |  |
|  | 1. System Validation |
|  | 1. Display Popup make sure Customer Deleted |
|  | 1. Display remove Customer form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at remove Customer Button |  |
|  | 1. System Display remove Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display remove Customer form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at remove Customer Button |  |
|  | 1. System Display remove Customer form 2. System Display the fields to fill it |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Customer’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 1. System Display customer available functions as buttons |
| 1. User Click at remove Customer Button |  |
|  | 1. System Display remove Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to Confirm Message |
| 1. User Click ok |  |
|  | 1. System Validation 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Customer

## User Story

|  |  |
| --- | --- |
| User Story ID | US #5 |
| User Story Name | Show Customer data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve customer data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show customer function,  When I fill customer data in inputs, Then, click at showing button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at show Customer Button |  |
|  | 1. System Display show Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display show Customer form With Customer data in Inputs (Inputs Read Only) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at show Customer Button |  |
|  | 1. System Display show Customer form 2. System Display the fields to fill it |
| 1. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Customer’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at show Customer Button |  |
|  | 1. System Display show Customer form 2. System Display the fields to fill it |
| 1. User enter Customer’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Validation 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Customers

## User Story

|  |  |
| --- | --- |
| User Story ID | US #6 |
| User Story Name | Show Customers |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve customers data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show customers function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Customers Button |  |
|  | 3- System Display customer available functions as buttons |
| 1. User Click at Show Customers Button |  |
|  | 1. System Display Show Customers form 2. System Display the Table of the data of Customers |
|  | 1. Display show Customers form |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

# **Materials**

# **Aluminum**

# Add Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #2 |
| User Story Name | Add New Aluminum Sector |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add New Aluminum Sector for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Sector function,  When I fill all Sector data in inputs, Then, Clicking at adding button;  Will pop up message for making sure Sector entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 3- System Display Sectors available functions as buttons |
| 1. User Click at add Sector Button |  |
|  | 1. System Display add Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s Number 2. User enter Sector’s Name 3. User enter Sector’s Category 4. User enter Sector’s Section 5. User enter Sector’s Description 6. User enter Sector’s Type 7. User enter Sector’s Low Weight 8. User enter Sector’s Average Weight 9. User enter Sector’s High Weight 10. User enter Sector’s Length of One 11. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Sector Added |
|  | 1. Display add Sector form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 3- System Display Sectors available functions as buttons |
| 1. User Click at add Sector Button |  |
|  | 1. System Display add Sector form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sectors available functions as buttons |
| 1. User Click at add Sector Button |  |
|  | 1. System Display add Sector form 2. System Display the fields to fill it |
| 1. User Fill Inputs Expected Each One 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sectors available functions as buttons |
| 1. User Click at add Sector Button |  |
|  | 1. System Display add Sector form 2. System Display the fields to fill it |
| 1. User enter Low or Avg or Low Weight or Length Less Than 0 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid Value for The Inputs” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Number | Int Number |
| Name | < 15 of chars |
| Category | < 15 of Chars |
| Section | < 15 of Chars |
| Description | < 15 of Chars |
| Type | < 15 of Chars |
| Low Weight | Float Number |
| Avg Weight | Float Number |
| Hight Weight | Float Number |
| Length | Float Number |

# Modify Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #8 |
| User Story Name | Modify Aluminum Sector data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Aluminum Sector at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Aluminum Sector function,  When I fill all Sector new data in inputs, Then, click at modify button;  Will pop up message for making sure Sector updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Aluminum Sector available functions as buttons |
| 1. User Click at modify Sector Button |  |
|  | 1. System Display modify Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Sector Modified |
|  | 1. Display modify Sector form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Aluminum Sector available functions as buttons |
| 1. User Click at modify Sector Button |  |
|  | 1. System Display modify Sector form 2. System Display the fields to fill it |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Sector’s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Aluminum Sector available functions as buttons |
| 1. User Click at modify Sector Button |  |
|  | 1. System Display modify Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s Id 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Aluminum Sector available functions as buttons |
| 1. User Click at modify Sector Button |  |
|  | 1. System Display modify Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s Id 2. User enter Low or Avg or High Weight or Length < 0 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

### Exceptipnal#4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Aluminum Sector available functions as buttons |
| 1. User Click at modify Sector Button |  |
|  | 1. System Display modify Sector form System Display the fields to fill it |
| 1. User enter Sector’s Id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid ID So, This ID is not existing” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int Number |
| Number | Int Number |
| Name | < 15 of chars |
| Category | < 15 of Chars |
| Section | < 15 of Chars |
| Description | < 15 of Chars |
| Type | < 15 of Chars |
| Low Weight | Float Number |
| Avg Weight | Float Number |
| Hight Weight | Float Number |
| Length | Float Number |

# Remove Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #9 |
| User Story Name | Remove Aluminum Sector data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove Aluminum Sector from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove Sector function,  When I fill remove Sector data in inputs, Then, click at remove button;  Will pop up message for making sure Sector removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Remove Sector Button |  |
|  | 1. System Display remove Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs |
|  | 1. Display Popup make sure Sector Delete |
|  | 1. Display Sector Customer form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Remove Sector Button |  |
|  | 1. System Display remove Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display Sector Customer form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Remove Sector Button |  |
|  | 1. System Display remove Sector form 2. System Display the fields to fill it |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Sector’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Remove Sector Button |  |
|  | 1. System Display remove Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #10 |
| User Story Name | Show Aluminum Sector data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Aluminum Sector data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Sector function,  When I fill Sector data in inputs, Then, click at showing button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Show Sector Button |  |
|  | 1. System Display show Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. Display show Sector form With Sector data in Inputs (Inputs Read Only) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Show Sector Button |  |
|  | 1. System Display show Sector form 2. System Display the fields to fill it |
| 1. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Sector’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Show Sector Button |  |
|  | 1. System Display show Sector form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Aluminums

## User Story

|  |  |
| --- | --- |
| User Story ID | US #11 |
| User Story Name | Show Aluminum Sectors data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Aluminum Sectors data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Sectors function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Aluminum Button |  |
|  | 1. System Display Sector available functions as buttons |
| 1. User Click at Show Sectors Button |  |
|  | 1. System Display Show Sectors form 2. System Recall all Columns names from English to Arabic , To Be More Readable 3. System Display the Table of the data of Sectors |
|  | 1. Display show Sectors form |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

# **Accessories**

# Add Accessories

## User Story

|  |  |
| --- | --- |
| User Story ID | US #12 |
| User Story Name | Add New Accessory Piece |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add Accessory Piece for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Accessory Piece function,  When I fill all Piece data in inputs, Then, click at adding button;  Will pop up message for making sure Piece entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at add Piece Button |  |
|  | 1. System Display add Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s Name 2. User enter Piece’s Category 3. User enter Piece’s Section 4. User enter Piece’s Description 5. User enter Piece’s Type 6. User enter Piece’s Size 7. User enter Piece’s Color 8. User enter Piece’s Price 9. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Piece Added |
|  | 1. Display add Piece form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at add Piece Button |  |
|  | 1. System Display add Piece form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. Display Popup Error Massage “Please Enter Data for insert it” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at add Piece Button |  |
|  | 1. System Display add Piece form 2. System Display the fields to fill it |
| 1. User enter Data to inputs Excepted Each Input 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. Display Popup Error Massage “Please Enter Full data of the Piece” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at add Piece Button |  |
|  | 1. System Display add Piece form 2. System Display the fields to fill it |
| 1. User enter Price Less Than or Equal Zero or Size Less Than Zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup Error Massage “Please Enter Valid Price or Size” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Name | < 15 of chars |
| Category | < 15 of Chars |
| Section | < 15 of Chars |
| Description | < 15 of Chars |
| Type | < 15 of Chars |
| Size | Float Number |
| Price | Float Number |

# Modify Accessories

## User Story

|  |  |
| --- | --- |
| User Story ID | US #13 |
| User Story Name | Modify Accessory Piece data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Accessory Piece at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Accessory Piece function,  When I fill all Piece new data in inputs, Then, click at modify button;  Will pop up message for making sure Piece updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at Modify Piece Button |  |
|  | 1. System Display Modify Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter Piece’s new Data 3. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Piece Updated |
|  | 1. Display Modify Piece form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at Modify Piece Button |  |
|  | 1. System Display Modify Piece form 2. System Display the fields to fill it |
| 1. User enter Modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. Display Popup Error Massage “Please Enter Piece’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at Modify Piece Button |  |
|  | 1. System Display Modify Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s Id 2. User enter Modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. Display Popup Error Massage “Please Enter Data for Updated with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at Modify Piece Button |  |
|  | 1. System Display Modify Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s Id 2. User enter New Price Less Than or Equal Zero or New Size Less Than Zero 3. User enter Modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

### Exceptipnal#4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Pieces available functions as buttons |
| 1. User Click at Modify Piece Button |  |
|  | 1. System Display Modify Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s Id 2. User enter data to updating 3. User enter Modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid Id; So, this is not existing” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Name | < 15 of chars |
| Category | < 15 of Chars |
| Section | < 15 of Chars |
| Description | < 15 of Chars |
| Type | < 15 of Chars |
| Size | Float Number |
| Price | Float Number |

# Remove Accessories

## User Story

|  |  |
| --- | --- |
| User Story ID | US #14 |
| User Story Name | Remove Accessory Piece data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove Accessory Piece from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove Piece function,  When I fill remove Piece data in inputs, Then, click at remove button;  Will pop up message for making sure Piece removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Piece Button 2. User Click at Remove Piece Button |  |
|  | 1. System Display remove Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs |
|  | 1. Display Popup make sure Piece Delete |
|  | 1. Display Remove Piece form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Piece Button 2. User Click at Remove Piece Button |  |
|  | 1. System Display remove Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display Remove Piece form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Piece Button 2. User Click at Remove Piece Button |  |
|  | 1. System Display remove Piece form 2. System Display the fields to fill it |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Piece’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Piece Button 2. User Click at Remove Piece Button |  |
|  | 1. System Display remove Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Accessories

## User Story

|  |  |
| --- | --- |
| User Story ID | US #15 |
| User Story Name | Show Accessory Piece data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Accessory Piece data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Piece function,  When I fill Piece data in inputs, Then, click at showing button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Show Piece Button |  |
|  | 1. System Display show Piece form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display show Piece form With Piece data in Inputs (Inputs Read Only) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Show Piece Button |  |
|  | 1. System Display show Piece form 2. System Display the fields to fill it |
| 1. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Sector’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Show Piece Button |  |
|  | 1. System Display show Sector form 2. System Display the fields to fill it |
| 1. User enter Piece’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Accessories

## User Story

|  |  |
| --- | --- |
| User Story ID | US #16 |
| User Story Name | Show Accessory Pieces data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Accessory Pieces data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Pieces function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Accessories Button |  |
|  | 1. System Display Piece available functions as buttons |
| 1. User Click at Show Pieces Button |  |
|  | 1. System Display Show Sectors form 2. System Recall Columns Name Form English to Arabic, To be More Reabable 3. System Display the Table of the data of Sectors |
|  | 1. Display show Sectors form |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

# **Glass**

# Add Glass

## User Story

|  |  |
| --- | --- |
| User Story ID | US #17 |
| User Story Name | Add New Glass Type |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add Glass Type for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Glass Type function,  When I fill all Type data in inputs, Then, click at adding button;  Will pop up message for making sure Type entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click Glass Button |  |
|  | 1. System Display Types available functions as buttons |
| 1. User Click at add Type Button |  |
|  | 1. System Display add Type form 2. System Display the fields to fill it |
| 1. User enter Sector’s Color 2. User enter Sector’s Type 3. User enter Sector’s Deep 4. User enter Sector’s Price 5. User enter Sector’s Default Type 6. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Type Added |
|  | 1. Display add Type form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 3- System Display Types available functions as buttons |
| 1. User Click at add Type Button |  |
|  | 1. System Display add Type form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Types available functions as buttons |
| 1. User Click at add Type Button |  |
|  | 1. System Display add Type form 2. System Display the fields to fill it |
| 1. User Fill Inputs Expected Each One 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Types available functions as buttons |
| 1. User Click at add Type Button |  |
|  | 1. System Display add Type form 2. System Display the fields to fill it |
| 1. User enter Price or Deep Less Than Zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid Value for The Inputs” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Color | < 15 of chars |
| Type | < 15 of chars |
| Price | Float Number |
| Deep | Float Number |
| Default | True or False |
| Type | < 15 of Chars |

# Modify Glass

## User Story

|  |  |
| --- | --- |
| User Story ID | US #18 |
| User Story Name | Modify Glass Type data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Glass Type at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Glass Type function,  When I fill all Type new data in inputs, Then, click at modify button;  Will pop up message for making sure Type updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at modify Type Button |  |
|  | 1. System Display modify Type form 2. System Display the fields to fill it |
| 1. User enter Type’s id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Type Modified |
|  | 1. Display modify Type form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Glass Type available functions as buttons |
| 1. User Click at modify Type Button |  |
|  | 1. System Display modify Type form 2. System Display the fields to fill it |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Type’s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Glass Type available functions as buttons |
| 1. User Click at modify Type Button |  |
|  | 1. System Display modify Type form 2. System Display the fields to fill it |
| 1. User enter Type’s Id 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Glass Type available functions as buttons |
| 1. User Click at modify Type Button |  |
|  | 1. System Display modify Type form 2. System Display the fields to fill it |
| 1. User enter Type’s Id 2. User enter Deep or Price Is Less Than Zero 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

### Exceptipnal#4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Glass Type available functions as buttons |
| 1. User Click at modify Type Button |  |
|  | 1. System Display modify Type form   System Display the fields to fill it |
| 1. User enter Type’s Id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid ID So, This ID is not existing” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Color | < 15 of chars |
| Type | < 15 of chars |
| Price | Float Number |
| Deep | Float Number |
| Default | True or False |
| Type | < 15 of Chars |

# Remove Glass

## User Story

|  |  |
| --- | --- |
| User Story ID | US #19 |
| User Story Name | Remove Glass Type data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove Glass Type from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove Type function,  When I fill remove Type data in inputs, Then, click at remove button;  Will pop up message for making sure Type removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Remove Type Button |  |
|  | 1. System Display remove Type form 2. System Display the fields to fill it |
| 1. User enter Type’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs |
|  | 1. Display Popup make sure Type Delete |
|  | 1. Display Remove Glass Type form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Remove Type Button |  |
|  | 1. System Display remove Type form 2. System Display the fields to fill it |
| 1. User enter Type’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display Remove Glass Type form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Remove Type Button |  |
|  | 1. System Display remove Type form 2. System Display the fields to fill it |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Type’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Remove Glass Button |  |
|  | 1. System Display Type Sector form 2. System Display the fields to fill it |
| 1. User enter Type’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Glass

## User Story

|  |  |
| --- | --- |
| User Story ID | US #20 |
| User Story Name | Show Glass Type data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Glass Type data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Type function,  When I fill Type data in inputs, Then, click at showing button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Show Type Button |  |
|  | 1. System Display show Type form 2. System Display the fields to fill it |
| 1. User enter Type’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display show Glass Type form With Type data in Inputs (Inputs Read Only) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Show Type Button |  |
|  | 1. System Display show Type form 2. System Display the fields to fill it |
| 1. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Type’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Show Type Button |  |
|  | 1. System Display show Type form 2. System Display the fields to fill it |
| 1. User enter Type’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Glasses

## User Story

|  |  |
| --- | --- |
| User Story ID | US #21 |
| User Story Name | Show Glass Types data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Glass Types data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Types function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Glass Button |  |
|  | 1. System Display Type available functions as buttons |
| 1. User Click at Show Types Button |  |
|  | 1. System Display Show Types form 2. System Recall Column Names From English to Arabic. 3. System Display the Table of the data of Types |
|  | 1. Display Show Glass Types form |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

# **Boards**

# Add Board

## User Story

|  |  |
| --- | --- |
| User Story ID | US #22 |
| User Story Name | Add New Board |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add Board for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Board function,  When I fill all Type data in inputs, Then, click at adding button;  Will pop up message for making sure Board entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click Board Button |  |
|  | 1. System Display Boards available functions as buttons |
| 1. User Click at add Board Button |  |
|  | 1. System Display add Board form 2. System Display the fields to fill it |
| 1. User enter Type’s Name 2. User enter Type’s Type 3. User enter Type’s Color 4. User enter Type’s Height 5. User enter Type’s Width 6. User enter Type’s Deep 7. User enter Type’s Board Price 8. User enter Type’s Mater Price 9. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Board Added |
|  | 1. Display add Board form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 3- System Display Boards available functions as buttons |
| 1. User Click at add Board Button |  |
|  | 1. System Display add Board form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Boards available functions as buttons |
| 1. User Click at add Board Button |  |
|  | 1. System Display add Board form 2. System Display the fields to fill it |
| 1. User Fill Inputs Expected Each One 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Boards available functions as buttons |
| 1. User Click at add Board Button |  |
|  | 1. System Display add Board form 2. System Display the fields to fill it |
| 1. User enter Price or Deep or Width or Height Less Than Zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid Value for The Inputs” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Color | < 15 of chars |
| Type | < 15 of chars |
| Mater Price | Float Number |
| One Price | Float Number |
| Deep | Float Number |
| Name | < 15 of chars |
| Width | Float Number |
| Height | Float Number |

# Modify Board

## User Story

|  |  |
| --- | --- |
| User Story ID | US #23 |
| User Story Name | Modify Board data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Board at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Board function,  When I fill all Type new data in inputs, Then, click at modify button;  Will pop up message for making sure Board updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at modify Board Button |  |
|  | 1. System Display modify Board form 2. System Display the fields to fill it |
| 1. User enter Board’s id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Type Modified |
|  | 1. Display modify Board form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board Type available functions as buttons |
| 1. User Click at modify Board Button |  |
|  | 1. System Display modify Board form 2. System Display the fields to fill it |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Board ‘s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board Type available functions as buttons |
| 1. User Click at modify Board Button |  |
|  | 1. System Display modify Board form 2. System Display the fields to fill it |
| 1. User enter Board’s Id 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board Type available functions as buttons |
| 1. User Click at modify Board Button |  |
|  | 1. System Display modify Type form 2. System Display the fields to fill it |
| 1. User enter Type’s Id 2. User enter Deep or Price or Width or Height Is Less Than Zero 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

### Exceptipnal#4 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at modify Board Button |  |
|  | 1. System Display modify Board form   System Display the fields to fill it |
| 1. User enter Board ‘s Id 2. User enter new data at the inputs 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid ID So, This ID is not existing” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Color | < 15 of chars |
| Type | < 15 of chars |
| ID | Int Number |
| Mater Price | Float Number |
| One Price | Float Number |
| Deep | Float Number |
| Name | < 15 of chars |
| Width | Float Number |
| Height | Float Number |

# Remove Board

## User Story

|  |  |
| --- | --- |
| User Story ID | US #24 |
| User Story Name | Remove Board data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove Board from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove Type function,  When I fill remove Board data in inputs, Then, click at remove button;  Will pop up message for making sure Board removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Remove Board Button |  |
|  | 1. System Display remove Board form 2. System Display the fields to fill it |
| 1. User enter Board’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs |
|  | 1. Display Popup make sure Board Delete |
|  | 1. Display Remove Board form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Remove Board Button |  |
|  | 1. System Display remove Board form 2. System Display the fields to fill it |
| 1. User enter Board’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display Remove Board form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Remove Board Button |  |
|  | 1. System Display remove Board form 2. System Display the fields to fill it |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Board’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Remove Board Button |  |
|  | 1. System Display Board form 2. System Display the fields to fill it |
| 1. User enter Board’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Board

## User Story

|  |  |
| --- | --- |
| User Story ID | US #25 |
| User Story Name | Show Board data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Board data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Board function,  When I fill Board data in inputs, Then, click at showing button |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Show Board Button |  |
|  | 1. System Display show Board Form 2. System Display the fields to fill it |
| 1. User enter Board’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display show Board form With Type data in Inputs (Inputs Read Only) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Show Board Button |  |
|  | 1. System Display show Board form 2. System Display the fields to fill it |
| 1. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Board’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Show Board Button |  |
|  | 1. System Display show Board form 2. System Display the fields to fill it |
| 1. User enter Board’s ID 2. User enter show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Boards

## User Story

|  |  |
| --- | --- |
| User Story ID | US #26 |
| User Story Name | Show Boards data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Glass Boards data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Boards function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Materials Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Board Button |  |
|  | 1. System Display Board available functions as buttons |
| 1. User Click at Show Boards Button |  |
|  | 1. System Display Show Boards form 2. System Recall The Column Names Form English to Arabic, To be More Readable 3. System Display the Table of the data of Boards |
|  | 1. Display Show Boards form |

## Use Case Diagram

## Collaboration Diagram

## Design Screen

# **Discounts**

# **Windows**

# Add Window Discount

## User Story

|  |  |
| --- | --- |
| User Story ID | US #27 |
| User Story Name | Add New Window Discount |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add New Window Discount for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Discount function,  When I fill all Discount data in inputs, Then, clicking at adding button;  Will pop up message for making sure Discount entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 3- System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Choose Sector’s Section 2. User Choose Sector’s Type 3. User Choose Sector’s Description 4. User enter Sector’s Number 5. User enter Sector’s Height 6. User enter Sector’s Width 7. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Discount Added |
|  | 1. Display add Discount form (Matched Data to be List Box Source) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. 3- System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Fill Inputs Expected Each One 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. 3- System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User enter height or Width Less Than Zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Enter Valid Value for The Inputs” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Section | < 15 of Chars |
| Type | < 15 of chars |
| Description | < 15 of Chars |
| RollsNumber | Int Number |
| Height | Float Number |
| Width | Float Number |

# Add Window Discount ‘Aluminum’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #28 |
| User Story Name | Add New Window Discount Aluminum |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add New Aluminum Discount for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Aluminum function,  When I fill all Aluminum data in inputs, Then, clicking at adding button;  Will pop up message for making sure Aluminum entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User Choose aluminum’s Type 2. User enter aluminum’s Main Height 3. User enter aluminum’s Additional Height 4. User enter aluminum’s Number of Height 5. User enter aluminum’s Main Width 6. User enter aluminum’s Additional Width 7. User enter aluminum’s Number of Width 8. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Aluminum Added |
|  | 1. Display add Discount form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. Uset enter All Data Expected each input 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter values less than zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Fill Inputs by Valid data” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Aluminum Type | < 15 of chars |
| Main Height | Float Number |
| Additional Height | Float Number |
| Number of Height | Int Number |
| Main Width | Float Number |
| Additional Width | Float Number |
| Number of Width | Int Number |

# Add Window Discount ‘Accessories’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #29 |
| User Story Name | Add New Window Discount Accessory |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add New Accessory Discount for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Accessory Discount function,  When I fill all Accessory data in inputs, Then, clicking at adding button;  Will pop up message for making sure Accessory entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User Choose Accessory’s Name 2. User enter Accessory’s Number 3. User enter Accessory’s Color 4. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Accessory Added |
|  | 1. Display add Discount form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. Uset enter All Data Expected each input 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter number less than zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Fill Inputs by Valid data” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Accessory Name | < 15 of chars |
| Accessory Number | Int Number |
| Accessory Color | < 15 Chars |

# Add Window Discount ‘Glass’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #30 |
| User Story Name | Add New Window Discount Glass |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add New Glass Discount for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Glass function,  When I fill all Glass data in inputs, Then, clicking at adding button;  Will pop up message for making sure Glass entered to system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User choose Glass’s Type 2. User enter Glass’s Main Height 3. User enter Glass’s Main Width 4. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Glass Added |
|  | 1. Display add Discount form (Empty Inputs) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. Uset enter All Data Expected each input 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at add Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount Public Data 2. User enter add data Button |  |
|  | 1. System Display add Discount form with Matched data at inputs |
| 1. User enter Height or Width less than zero 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Fill Inputs by Valid data” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Glass Type | < 15 of chars |
| Main Height | Float Number |
| Main Width | Float Number |

# Modify Window Discount

## User Story

|  |  |
| --- | --- |
| User Story ID | US #31 |
| User Story Name | Modify Window Discount data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to Modify Window Discount for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use Modify Window Discount function,  When I fill all Discount data in inputs, Then, clicking at Editing button;  Will pop up message for making sure Discount Updated from the system. |

### Normal #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User enter Discount Id 2. User enter edit data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Discount Selected |
|  | 1. Display Modify Discount form (Matched Data to be List Box Source) |

### Exceptional #1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. 3- System Display Discounts available functions as buttons |
| 1. User Click at modify Discount Button |  |
|  | 1. System Display add Discount form 2. System Display the fields to fill it |
| 1. User enter id 2. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “This id is not fined” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| id | Int Number |

# Modify Window Discount ‘Aluminum’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #32 |
| User Story Name | Modify Discount Aluminum data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Aluminum at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Aluminum function,  When I fill all Aluminum new data in inputs, Then, click at modify button;  Will pop up message for making sure Aluminum updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User Choose aluminum’s Type 2. User enter each input 3. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Aluminum Updated |
|  | 1. Display Modify Discount form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Sector’s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User choose sector’s name 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter sector’s name 2. User enter data less than zero 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Sector Name | < 15 of chars |
| Main Height | Float Number |
| Main Width | Float Number |
| Additional Height | Float Number |
| Additional Width | Float Number |
| Number of Height | Int Number |
| Number of Width | Int Number |

# Modify Window Discount ‘Accessory’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #33 |
| User Story Name | Modify Discount Accessory data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Accessory at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Accessory function,  When I fill all Accessory new data in inputs, Then, click at modify button;  Will pop up message for making sure Accessory updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User Choose Accessory’s Type 2. User enter each input 3. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure Accessory Updated |
|  | 1. Display Modify Discount form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill Sector’s ID Input” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User choose sector’s name 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter sector’s name 2. User enter data less than zero 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Accessory Name | < 15 of chars |
| Accessory Number | Float Number |
| Accessory Color | < 15 of chars |

# Modify Window Discount ‘Glass’

## User Story

|  |  |
| --- | --- |
| User Story ID | US #34 |
| User Story Name | Modify Discount Glass data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to modify Glass at the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use modify Glass function,  When I fill all Glass new data in inputs, Then, click at modify button;  Will pop up message for making sure Glass updated from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display Modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User Choose glass’s Type 2. User enter each input 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. Display Popup to make sure glass Updated |
|  | 1. Display Modify Discount form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill choose glass type” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User choose glass’s type 2. User enter modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Fill data for update with it” |

### Exceptipnal#3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Modify Discount Button |  |
|  | 1. System Display modify Discount form 2. System Display the fields to fill it |
| 1. User Enter Discount id 2. User enter add data Button |  |
|  | 1. System Display modify Discount form with Matched data at inputs |
| 1. User enter sector’s name 2. User enter data less than zero 3. User enter modify data Button |  |
|  | 1. System Check all fields filled 2. System Validation Inputs |
|  | 1. System Pop up Error Message “Please Fill Input with Valid Data More Than Zero” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| Glass Type | < 15 of chars |
| Main Height | Float Number |
| Main Width | Float Number |

# Remove Window Discount

## User Story

|  |  |
| --- | --- |
| User Story ID | US #35 |
| User Story Name | Remove Window Discount data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to remove Discount from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use remove Discount function,  When I fill remove Window Discount data in inputs, Then, click at remove button;  Will pop up message for making sure Discount removed from system. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at remove Discount Button |  |
|  | 1. System Display remove Discount form 2. System Display the fields to fill it |
| 1. User enter Discount Id 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs |
|  | 1. Display Popup make sure discount removed |
|  | 1. Display Remove Discount form (Empty Inputs) |

### Normal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at remove Discount Button |  |
|  | 1. System Display remove Discount form 2. System Display the fields to fill it |
| 1. User enter Discount Id 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click no |  |
|  | 1. Display Remove Discount form (Empty Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at remove Discount Button |  |
|  | 1. System Display remove Discount form 2. System Display the fields to fill it |
| 1. User enter Discount Id 2. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User enter remove data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Sector’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at remove Discount Button |  |
|  | 1. System Display remove Discount form 2. System Display the fields to fill it |
| 1. User enter Sector’s ID 2. User enter remove data Button |  |
|  | 1. System Check all fields filled 2. System popup to making sure Message |
| 1. User Click ok |  |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Window Discount

## User Story

|  |  |
| --- | --- |
| User Story ID | US #36 |
| User Story Name | Show Window Discount data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to Show Discount from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use Show Discount function,  When I fill Show Discount data in inputs, Then, click at show button; |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Show Discount Button |  |
|  | 1. System Display Show Discount form 2. System Display the fields to fill it |
| 1. User enter Discount Id 2. User enter Show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Validation Inputs |
|  | 1. Display Show Discount form (Matched Inputs) |

### Exceptipnal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Show Discount Button |  |
|  | 1. System Display Show Discount form 2. System Display the fields to fill it |
| 1. User enter Show data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Please Enter Discount’s ID” |

### Exceptipnal#2 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Show Discount Button |  |
|  | 1. System Display Show Discount form 2. System Display the fields to fill it |
| 1. User enter Discount’s ID 2. User enter Show data Button |  |
|  | 1. System Validation Inputs 2. System Pop up Error Message “This ID Is not Exists” |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

|  |  |
| --- | --- |
| Input | Constraint |
| ID | Int number |

# Show Window Discounts

## User Story

|  |  |
| --- | --- |
| User Story ID | US #37 |
| User Story Name | Show Window Discounts data |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to retrieve Window Discounts data from the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use show Discounts function,  When I click at show button. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Discounts Button |  |
|  | 1. System Display available Categories as buttons |
| 1. User Click at Windows Button |  |
|  | 1. System Display Discounts available functions as buttons |
| 1. User Click at Show Sectors Button |  |
|  | 1. System Display Show Discounts form 2. System Recall all Columns names from English to Arabic, To Be More Readable 3. System Display the Table of the data of Discounts |
|  | 1. Display show Discounts form |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

***Database Design***

# **Entities Relationship Digrams**

## Entities titles

Users

Customers

# **Relationship Between Entities**

## Customers with Offer prices

## 

Offer Prices

Customers

1. M

* Each Customer have More 1 Offer Prices.
* Each Offer Prices have only one Customer.

# **Entities Dictionary**

## Table: Users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | NULL | Default | Comment |
| ID | INT | NO | Primary Key |  |
| Username | NVARCHAR (50) | NO |  |  |
| Password | INT | NO |  |  |
| Status | NVARCHAR (50) | NO |  |  |

## **ERD Diagram**