# Software Requirements Specification

Workshop Aluminum System

Prepared by: Ahmed Osama

Organization:

Created date: 27/9/2023

Table of Content

List of Tables

List of Figures

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

# 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 Customer’s 7. 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 |  |
|  | 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 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 |  |
|  | 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 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 Mobile 2. User enter Customer’s Address 3. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### 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 add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### Exceptional #5 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 #6 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 WhatsApp Number 5. User enter add data Button |  |
|  | 1. System Check all fields filled 2. System Validation |
|  | 1. System Pop up Error Message “The WhatsApp Number is Invalid Number” |

### Exceptional #7 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

## Activity Diagram

## Sequence 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 |  |
|  | 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 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 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#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 modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill data for update it” |

### 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 |  |
|  | 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 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 |  |
|  | 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 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

## Activity Diagram

## Sequence 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 |
| 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 |  |
|  | 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 ok |  |
|  | 1. System Validation |
|  | 1. Display Popup make sure Customer Delete |
|  | 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 |  |
|  | 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 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 |  |
|  | 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 ok |  |
|  | 1. System Validation 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 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) |
| 1. User enter Customer’s Mobile 2. User enter Customer’s Address 3. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### 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

## Activity Diagram

## Sequence 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

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

# Update Customer

## User Story

|  |  |
| --- | --- |
| User Story ID | US #7 |
| User Story Name | Update Customer data |
| Actors | Build in System |
| Description | System needs to update customer data  as, Increasing or decreasing offer prices or indexations or Works numbers. |
| Acceptance Criteria | Given System need Order Updating Function,  Then It can use update customer function, Will pop up message for making sure customer data updated. |

### Normal#1 Scenario

|  |  |
| --- | --- |
| 1. System Order Update Function |  |
| 1. System Send Needed Args for the Function |  |
|  | 1. Customer Class Calls the Function 2. Customer Class Run the Function 3. Customer Class Return the result |
| 1. System Receive the result 2. Store the result 3. Select the suitable situation depends on the stored result |  |

## Use Case Diagram

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

# **Materials**

# **Aluminum**

# Add Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #8 |
| User Story Name | Add New Aluminum Sector |
| Actors | Admin, Owner |
| Description | As Admin or Owner  I need to add Aluminum Sector for the system. |
| Acceptance Criteria | Given I’m Admin or Owner and Logged in System,  Then I can use add Aluminum Sector function,  When I fill all Sector data in inputs, Then, click 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 Sectors Button 2. 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 |
|  | 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 Sectors Button 2. 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 Sectors Button 2. User Click at Aluminum Button |  |
|  | 3- System Display Sectors available functions as buttons |
| 1. User Fill Inputs Expected Each One 2. 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 #3 Scenario

|  |  |
| --- | --- |
| 1. User Login to System |  |
| 1. User Click at Sectors Button 2. User Click at Aluminum Button |  |
|  | 3- System Display Sectors available functions as buttons |
| 1. User enter Low or Avg or Low Weight or Length Less Than 0 2. 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 “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 #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 |  |
|  | 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 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 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#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 modify data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill data for update it” |

### 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 |  |
|  | 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 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 |  |
|  | 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 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

## Activity Diagram

## Sequence 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 Aluminum

## User Story

|  |  |
| --- | --- |
| User Story ID | US #4 |
| User Story Name | Remove Customer |
| 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 |  |
|  | 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 ok |  |
|  | 1. System Validation |
|  | 1. Display Popup make sure Customer Delete |
|  | 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 |  |
|  | 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 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 |  |
|  | 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 ok |  |
|  | 1. System Validation 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 #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) |
| 1. User enter Customer’s Mobile 2. User enter Customer’s Address 3. User enter add data Button |  |
|  | 1. System Check all fields filled |
|  | 1. System Pop up Error Message “Fill All Inputs by data” |

### 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

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

## Data Dictionary

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

# Show Aluminum

## 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

## Activity Diagram

## Sequence Diagram

## Collaboration Diagram

## Design Screen

Database Section

# 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