**User Story 1:**

As a user, I want to add a new ***Product*** into the system.

Use Case 1:

User will enter data and data will be stored in database.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Product” | 1. Display “Add Product” Screen |
| 1. Input valid data and click “Add” | 1. Show confirmation box |

Use Case 2:

User will enter Invalid Product ID.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Product” | 1. Display “Add Product” Screen. |
| 1. Input Product Id and click “Add” | 1. Show error box |

**User Story 2:**

As a user, I want to add a new ***Customer*** into the system.

Use Case 1:

User will enter data and data will be stored in database.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Customer” | 1. Display “Add Customer” Screen |
| 1. Input valid data and click “Add” | 1. Show confirmation box |

Use Case 2:

User will enter Invalid Customer Phone.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Customer” | 1. Display “Add Customer” Screen |
| 1. Input Product Id and click “Add” | 1. Show error box |

**User Story 2:**

As a user, I want to add a new ***Purchase*** into the system.

Use Case 1:

User will enter data and data will be stored in database.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Purchase” | 1. Display “Add Purchase” Screen |
| 1. Input valid data and click “Add” | 1. Show confirmation box |

Use Case 2:

User will enter Purchase Id that already exists.

|  |  |
| --- | --- |
| Actor | Action |
| 1. Click Button “Add Purchase” | 1. Display “Add Purchase” Screen |
| 1. Input Product Id and click “Add” | 1. Show error box |

Physical Database Design:

CREATE TABLE "Customers" (

"CustomerId" INTEGER NOT NULL,

"Name" TEXT DEFAULT 'Guest',

"Phone" INTEGER DEFAULT '(334)111-1111',

"Address" TEXT DEFAULT 'Auburn, AL',

PRIMARY KEY("CustomerId")

);

CREATE TABLE "Orders" (

"OrderId" INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT UNIQUE,

"CustomerId" INTEGER NOT NULL,

"ProductId" INTEGER NOT NULL,

"Quantity" REAL DEFAULT 1,

"Price" REAL,

"TotalTax" REAL,

"TotalCost" REAL,

"Date" TEXT,

FOREIGN KEY("CustomerId") REFERENCES "Customers"

);

CREATE TABLE "Products" (

"ProductId" INTEGER NOT NULL,

"Name" TEXT,

"Price" REAL,

"Quantity" INTEGER,

"Vendor" TEXT,

PRIMARY KEY("ProductId")

);