|  |  |
| --- | --- |
| **Client** | **Server** |
| **GET** command get product information:   * Client sends ProductID | * Server receives ProductID * Server checks if the product with that ID exists * If exists: Server sends back all product information |
| **PUT command :** save product information to server Client sends all product information | * Server receives all product information * Server checks if the product with that ID exists * If exists: Server updates all product information * If not: Server adds a new product! * Server sends back confirmation or error! |

**Name: Adding a new product**

**Steps:**

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “add Prodcut”   **Main screen:**  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.20.34.png | 1. Display “Add Product” screen   “Add Product” screen  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.28.51.png |
| 1. Input data then click “Add” button   “Add Product” screen with data  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.36.44.png | 1. Hide “Add Product” screen and display   “Add Product Successfully” screen  “Add Product Succesfully” screen  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.40.24.png |
| 1. Click on “OK” button | 1. Display “Main” screen |

**Name: Adding a new customer**

**Steps:**

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “Add customer”   **Main screen:**  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.20.34.png | 1. Display “Add customer” screen   “Add customer” screen  ../屏幕快照%202019-09-14%20下午10.14.46.png |
| 1. Input data then click “Add” button   “Add customer” screen with data  ../屏幕快照%202019-09-14%20下午10.22.15.png | 1. “Add customer Successfully” screen   ../屏幕快照%202019-09-14%20下午10.24.37.png |
| 1. Click on “OK” button | 1. Display “Main” screen |

**Name: Adding a new purchase**

Steps:

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “Add purchase”   **Main screen:**  /Users/atim/Desktop/屏幕快照 2019-09-10 上午11.20.34.png | 1. Display “Add purchase” screen   “Add purchase” screen  ../屏幕快照%202019-09-14%20下午10.31.02.png |
| 1. Input data then click “Add” button   “Add purchase” screen with data../屏幕快照%202019-09-14%20下午10.30.33.png | 1. “Add purchase Successfully” screen   ../屏幕快照%202019-09-14%20下午10.31.33.png |
| 1. Click on “OK” button | 1. Display “Main” screen |

**Logical table & Physical table**

**Create table Products(**

Product\_id int primary key,

Barcode varchar(50),

Name varchar(30),

Expiration text,

Data text,

Price real,

T

ax rate real,

Quantity int

);

**Create table Customers(**

Customer\_id int primary key,

Name varchar(50),

Address text,

Phone text,

Payment info text

);

**Create table Purchase(**

Purchase\_id,

Customer\_id,

Date text,

Quantity int,

Price real,

Tax real,

Total cost real

);

**Insert data into tables**

**Insert into Products table**

**VALUES**

(1, 'p1', '10102018', '10102017', 100, 0.1, 15, 'Lee County', '10102016'),

(2, 'p2', '10102018', '10102017', 150, 0.1, 28, 'Auburn', '10102016'),

(3, 'p3', '10102018', '10102017', 99, 0.1, 128, 'California', '10102016'),

(4, 'p4', '10102018', '10102017', 150, 0.1, 28, 'Auburn', '1052016'),

(5, 'p5', '10102018', '10102017', 99, 0.1, 130, 'China', '1082016');

**-- Customers**

**insert into Customers**

**VALUES**

(1, 'Ford Luttrell', 'Auburn', '334-732-8888', NULL),

(2, 'Paul', 'Auburn', '334-372-7777', NULL),

(3, 'Evin', 'Colorado', '334-332-6676', NULL),

(4, 'James Taylor', 'Texas', '374-332-5575', NULL),

(5, ‘Ben Dover', 'Texas', '334-372-6666', NULL);

**-- Purchase**

**insert into Purchase**

**VALUES**

( 1, 2, '10057018', 3, 15, 5, 20),

( 2, 3, '1807018', 4, 20, 2, 25),

( 3, 1, '17057018', 8, 24, 5, 29),

( 4, 2, '10057018', 3, 15, 7, 20),

( 5, 3, '1805618', 4, 20, 5, 25),

( 6, 1, '17034018', 8, 25, 3, 29),

( 7, 2, '10067018', 3, 15, 5, 20),

( 8, 3, '1823018', 4, 17, 5, 25),

( 9, 1, '17056718', 8, 11, 5, 29),

( 10, 2, '10342018', 4, 15, 5, 20);

**select \***

from products;

SELECT \*

from Customers;

**select \***

**from Purchase;**

**Entity-relation-diagram**