



Software Requirement Specification for Franchise operating system

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1) Introduction

1.1 Background

Our project is going to develop the “Franchise (Telecom) Operating System” to automate routine tasks such as inventory tracking and updating sales, updating all managers' and employees' details, updating the location of each branch, viewing furniture and product details in each branch, salary updates & and provide transparency in inventory and sales data for both Sri LankaTelecom and it's all branches.

1.2 Overview

SLT will give its trade name and provide SLT product items to the registered branches under the SLT. There are several branches under the SLT, and each branch assigns one owner (manager) and has employees.

SLT give the form to the owner of the Franchise ,Then owner can fill the registration form and register the Franchise branch.Owner can assign the employees by filling the assign form.Owners an employees can change their username and password. When a owner (manager) leaves the branch should mention the resignation date because every owner (manager) shouldbe responsible for all products in the relevant branch. SLT Company provides the same amount of furniture (tables, chairs) to all branches across the country.

The SLT company,owner(manager), and employee (in each branch) are the main actors in this System. In addition, SLT Company will pay salaries to each branch after that manager pays salaries to employees but does not mention the salary amount of eachone salary in the system. salary will be given generally to each branch.From excel sheet uploading function, Admin can add excel file to system,After importing the excel sheet into the system, Admin can read the excel sheet from the system, after that Admin can filter the data and find the average. At the end admin can see the count and the total. This is an overview of client requirements, and we will include above mention all requirements through developing the project.

1.2 Proposal

The proposal for developing a franchise operating system is to use a web-based system rather than using Excel files in a traditional way.

1.4 Objectives

The purpose of the described system is to streamline and automate various aspects of Sri Lanka Telecom's Franchise Operating System, sales tracking, and salary payments. The system aims to achieve the following objectives,

- *Efficient Franchise Operating System*
 - Ensure an equal distribution of items across all branches.
 - Track the inventory levels of items provided by Sri Lanka Telecom.
 - Categorize items to facilitate organized management.
- *Sales Tracking*
 - Enable branches to monitor the number of items sold.
 - Provide a consolidated view for Sri Lanka Telecom to analyze sales performance across all branches.
- *User Access Control*
 - Implement role-based access control to restrict data access based on user roles.
 - Allow Sri Lanka Telecom to view and manage data across all branches while restricting branch admins to their respective branch data.
- *Salary Management*
 - Store employee information, including roles, salaries, and related details.
- *Automation*
 - Automate routine tasks such as inventory tracking, sales updates, and employee service payment to reduce manual effort and errors.
- *Transparency and Accountability*
 - Provide transparency in inventory and sales data for both Sri Lanka Telecom and its

branches.

- Maintain audit trails to log user activities for accountability and tracking purposes.

Overall, the system is designed to enhance operational efficiency and ensure accurate and timely management of inventory, sales, and employee-related information within the context of branches.

1.5 Scope of the software system

The scope of this system encompasses various functional and technical aspects to fulfill the requirements of *Franchise Operating System*, sales tracking, and salary payment processes. Here's an overview of the scope:

● Franchise Operating Management

- Equal Distribution: Ensure an equal distribution of items across all branches.
- Item Categorization: Implement a system for categorizing items to facilitate organized management.
- Inventory Tracking: Track the quantity of items provided to each branch and maintain overall inventory levels.

● Sales Tracking

- Branch-Specific Sales Reports: Allow each branch to view and track the number of items sold.
- Consolidated Sales Report: Enable Sri Lanka Telecom to access a consolidated view of sales data across all branches.
- Real-time Updates: Provide real-time updates on sales transactions.

● User Roles and Access Control

- Sri Lanka Telecom Admin: Full access to all branches' details, inventory information
- Branch Admins: Limited access to their respective branch details, inventory, and sales data.

● Employee Service Payment

- Employee Information: Store details of employees, including roles, and salaries.
- The scope of the system is designed to address the specific needs of managing its

inventory, sales, and salary-related processes, with an emphasis on efficiency, accuracy, and user accessibility.

1.6 Product Perspective

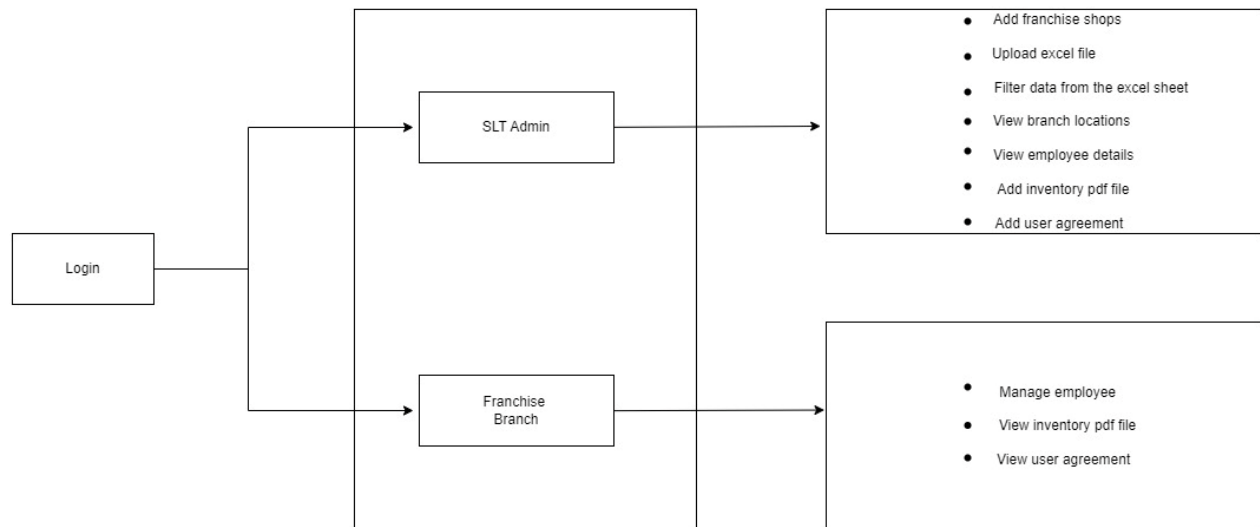
System Components:

- Franchise operating System Module: This component deals with the equal distribution of items, categorization, and tracking of inventory levels.
- Sales Tracking Module: Monitors and records sales transactions, providing insights into the performance of each branch and the organization.

Product functions:

- The system encompasses various functions to fulfill its objectives of Franchise Operating System, sales tracking, and salary administration. Here are the key product functions,
- *Franchise Operating System Functions:*
 - Equal Distribution: Ensures an equal distribution of items across all branches.
 - Item Categorization: Allows categorization of items for organized management.
 - Inventory Tracking: Monitors and tracks the quantity of items provided to each branch and maintains overall inventory levels.
- *Sales Tracking Functions:*
 - Branch-Specific Sales Reports: Enables each branch to view and track the number of items sold.
 - Consolidated Sales Report: Provides Sri Lanka Telecom Admin with a consolidated view of sales data across all branches.
 - Real-time Updates: Offers real-time updates on sales transactions.
- *Salary Management Functions:*
 - Employee Information Management: Stores details of employees, including roles, salaries, and related information.

2) High level Flow Diagram



3) Functional Requirements

3.1)

- The Franchise Operating System should be able to enter the details of all managers assigned to each branch.
- The system should be able to update the new manager's details.
- The managers can enter the resignation date into the system when they leave from branch.
- The System should give the amount of furniture details related to each branch. (Number of tables and chairs given to each branch.)
- The system Should be able to enter the salary amount and If SLT company pays Salary to each branch, the system should enter "tick/√" with the date of the given salary.
- The system should be able to enter the number of products given to each branch from SLT. [Routers, charges, cables, etc.]
- The system will show the location of each branch.
- Each branch ability enter into the system the number of sold items during the month.
- The Franchise Operating System should be able to access SLT Company to see all sold items details of each branch.
- Managers can add salesmen to the system.

- Managers can update and view the store.
- Salesmen can log in to the system and update daily sales.
- Managers can generate monthly report.

3.2) List of Functions

List of Functions (Admin)

1. Registration

Function	Registration
Description	- Create a new profile under the system.

2. Login

Function	Login
Description	- Login to the system as a admin.

3. Upload excel file to the system

Function	Uploading excel file
Description	- Can add excel file to system, After importing the excel sheet into the system, read the excel sheet from the system.

4. Search data from the excel file

Function	Search data
Description	- Can search any data of the system

5. Filter data and find the average using drop down menu

Function	Filter Data
Description	<ul style="list-style-type: none"> - Filter the data and find the average. At the end see the count and the total.

6. View Location

Function	View location
Description	<ul style="list-style-type: none"> - View franchise branch locations from the system

7. Add inventory items

Function	Add Inventory
Description	<ul style="list-style-type: none"> - Add franchise branch inventory items.

8. View inventory items

Function	V View Inventory
Description	<ul style="list-style-type: none"> - View franchise branch inventory items.

9. Add and view owner (manager) details

Function	Add and view owner data
Description	<ul style="list-style-type: none"> - Add owners and view their data

10. Change user name and password

Function	Change user name and password
Description	- Change the username and password

11 Send Email

Function	Send email
Description	- Admin can send emails to users.

List of Functions (Franchise Owner)

1. Registration

Function	Registration
Description	- Create a new profile under the system.

2. Login

Function	Login
Description	- Login to the system as a user.

3. Add employees to the system.

Function	Add employees
Description	- Add new employees to the system

4. Change the active status.

Function	Change status
Description	- Change employee status (active or inactive)

5. View Inventory

Function	View inventory
Description	- View inventory pdf send by the SLT admin

6. View user agreement

Function	View user agreement
Description	- View user agreement, send by the SLT admin

4) Non-Functional Requirements

- **Efficiency:**

- There are real-time updates on all managers' details with their resignation date, product details, furniture details, salary details, and additional payments in the Franchise Operating System.

- Security:

- The SLT and Each branch have usernames and passwords to log into the system and branches have some restrictions. SLT can view and access all details of each branch and branches can only view their details and they cannot access other branch details; hence it will provide secure to sensitive data in the system.

- Availability:

- This system is available at any time and branches can update data, also SLT can access system data at any time.


- User-friendly:

- We hope to come up with simple wireframes and UI designs for the Franchise Operating System because all managers in each branch can easily understand system functions without any troubles

5) Wire Frames (SLT Admin)

1) Registration & Login

Franchise Operating System
Please enter your login details.


Welcome Back!
Join experienced Designers on
this platform.

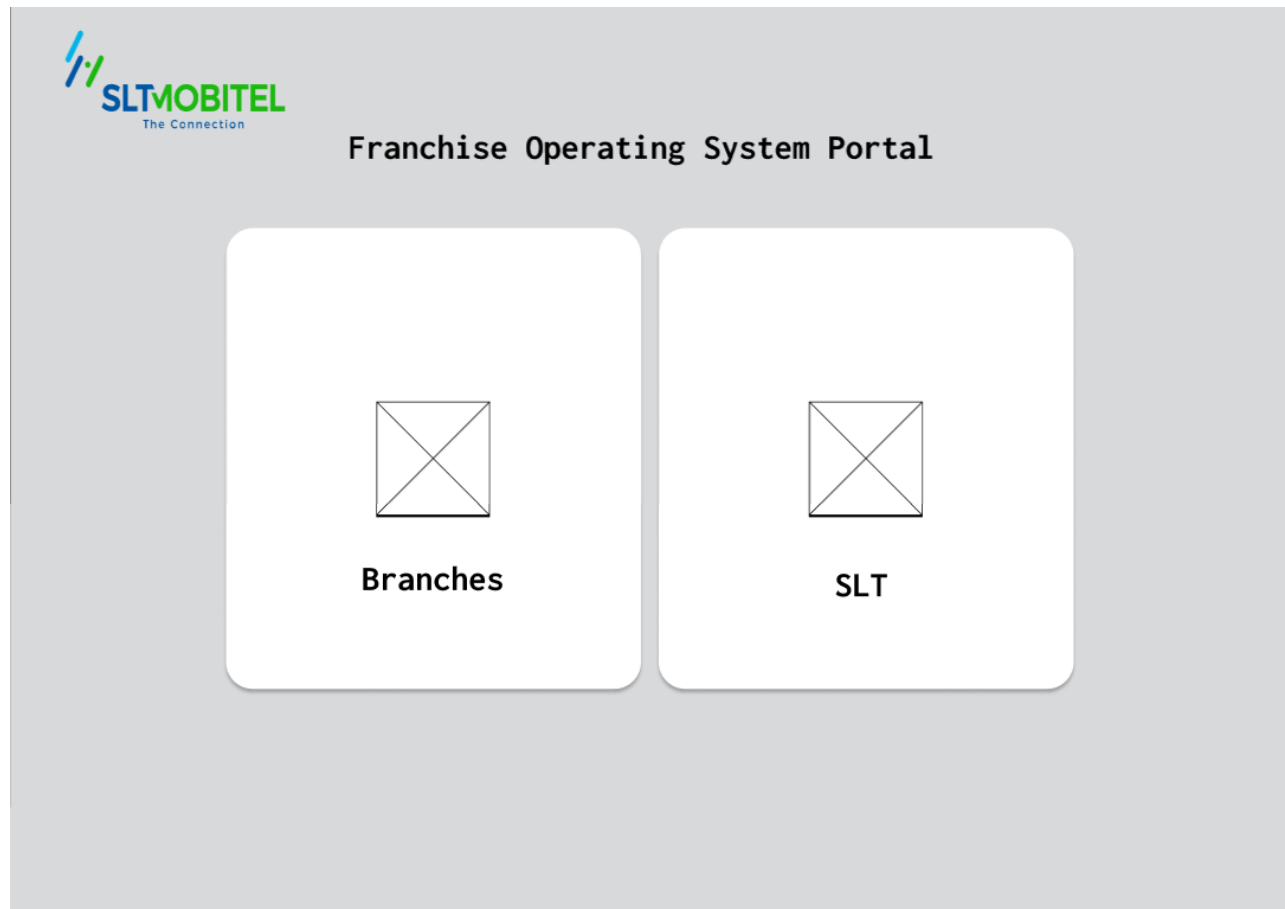
Email address

Password

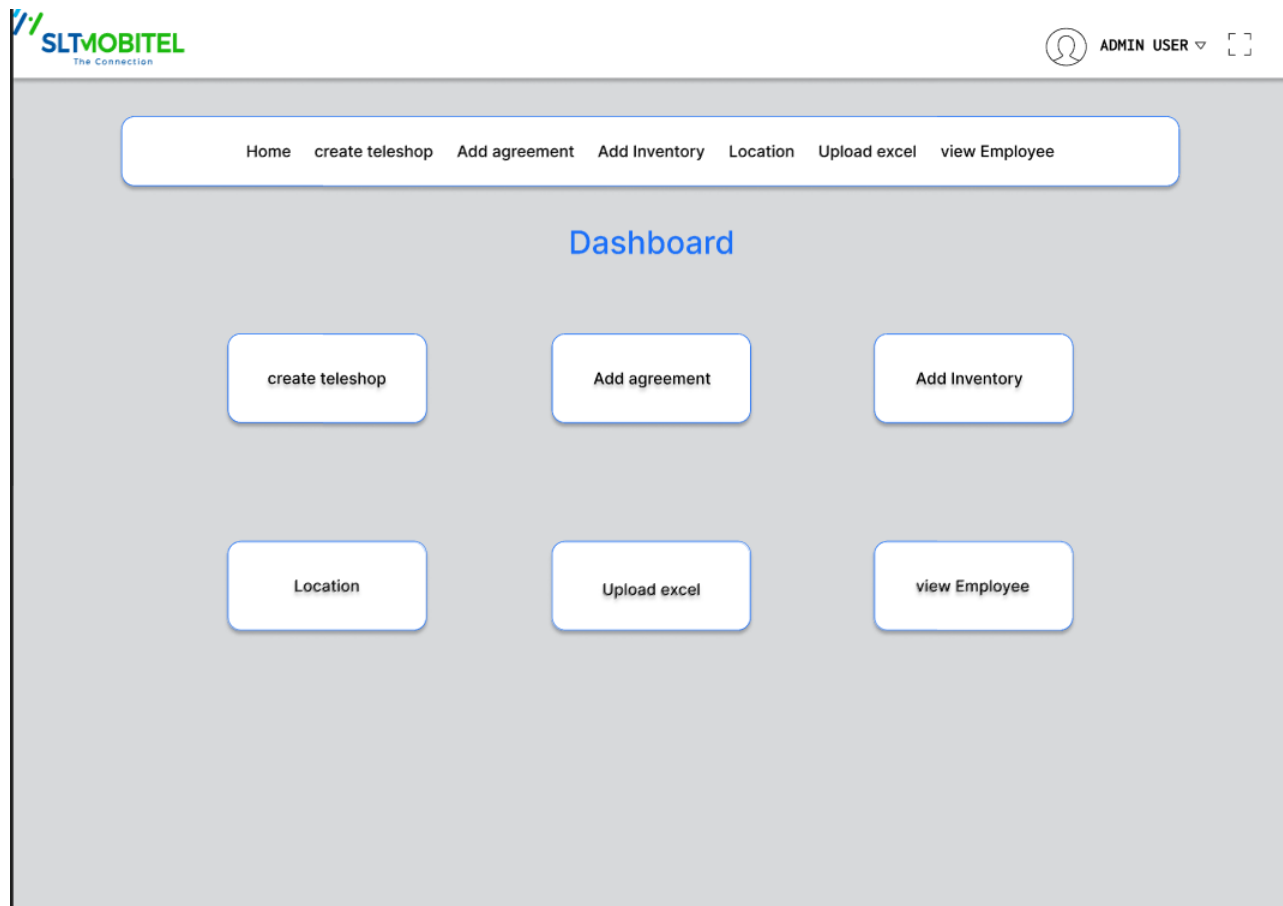
☐ Remember Me [Forgot Password?](#)

LOGIN

2) Role Selection



3) Admin dashboard



4) View all franchise shops

SLTMOBITEL
The Connection

ADMIN USER

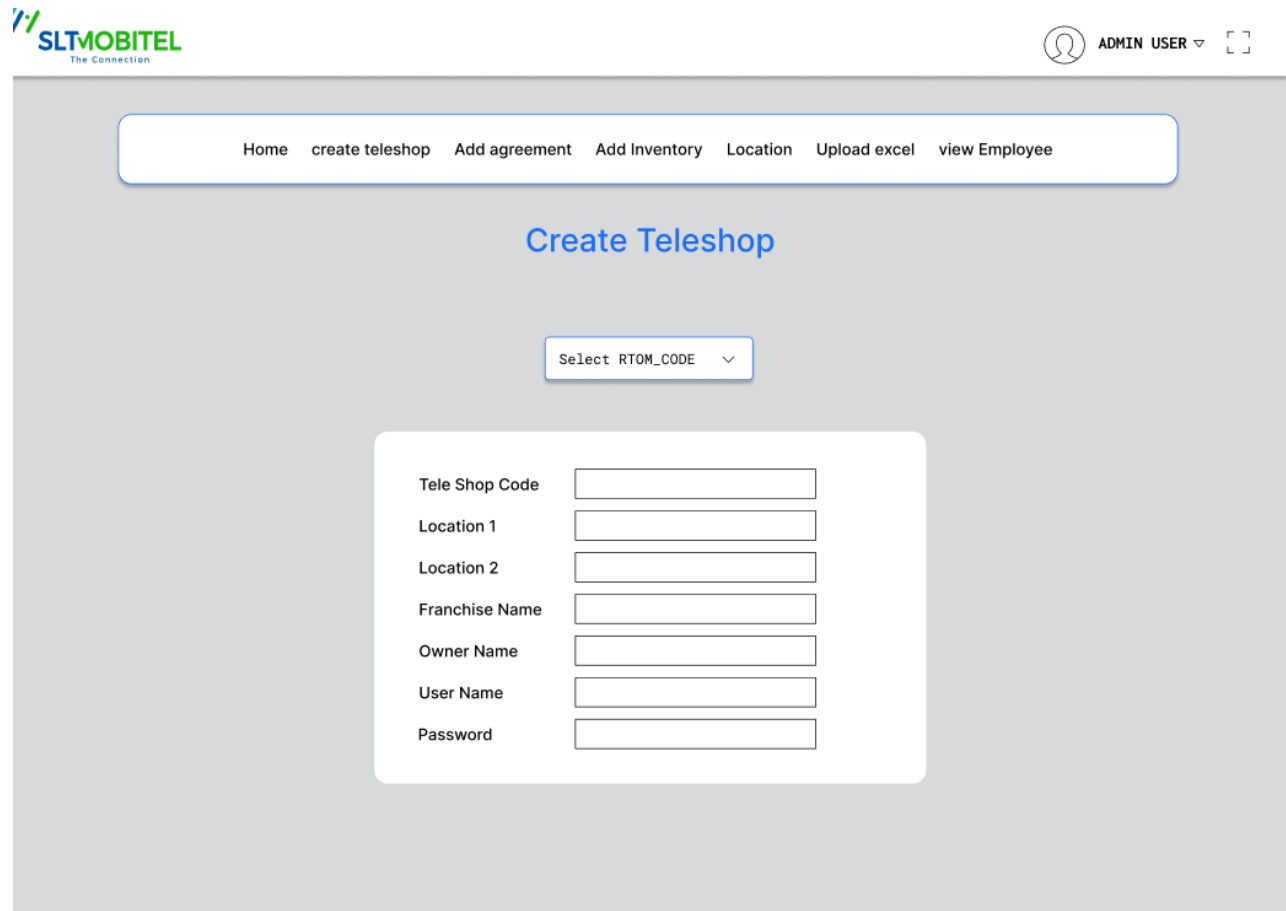
Home create teleshop Add agreement Add Inventory Location Upload excel view Employee

Branches

Select Tele Shop code Select Region Select Province

Branch 01	Branch 02	Branch 03
Branch 04	Branch 05	Branch 06
Branch 07	Branch 08	Branch 09


5) Add new franchise shop





The screenshot shows the 'Create Teleshop' page of the SLTMOBITEL system. The page has a header with the SLTMOBITEL logo and 'ADMIN USER' profile. A navigation bar contains links: Home, create teleshop, Add agreement, Add Inventory, Location, Upload excel, and view Employee. The main heading is 'Create Teleshop'. Below it is a dropdown menu labeled 'Select RTOM_CODE'. A form box contains the following fields:

Tele Shop Code	<input type="text"/>
Location 1	<input type="text"/>
Location 2	<input type="text"/>
Franchise Name	<input type="text"/>
Owner Name	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>

6) Upload Excel File



ADMIN USER  

Home create teleshop Add agreement Add Inventory Location Upload excel view Employee




Upload Excel

Choose File No file chosen


Sheet ID:

Search ID:

Total Sales:

#	REGIONS	PROVINCE	RTOM_CODE	LEA	SO_ID	PRODUCT_LABEL	SO_DATECREATED
	All Region 	All Province 	All RTOM Code 				
1							0000-00-00
2	REGIONS	PROVINCE	RTOM_CODE	LEA	SO_ID	PRODUCT_LABEL	0000-00-00
3	REGION 02	SAB & UVA	R-MRG	MRG	MRG202401010050727	94552276898	2001-01-24
4	REGION 01	NWP	R-KLY	KLY	KLY202401010057272	94372280481	2001-01-24
5	REGION 02	SAB & UVA	R-MRG	BZ	BZ202401030014854	LTE0553133078	2001-03-24

7) Employee Details



ADMIN USER ▾

Home create teleshop Add agreement Add Inventory Location Upload excel view Employee

Employee Details


Branch Manager

Name	Location 01	Location 02	Number	Franchise	Status
Dulith Bandara	Kandy	arpico	0755544819	mobi mart	Active

Employee details

Name	Phone	Address	Status
Radha	0710000000	Colombo	Active
Radha	0710000000	Colombo	Active
Radha	0710000000	Colombo	Active
Radha	0710000000	Colombo	Active

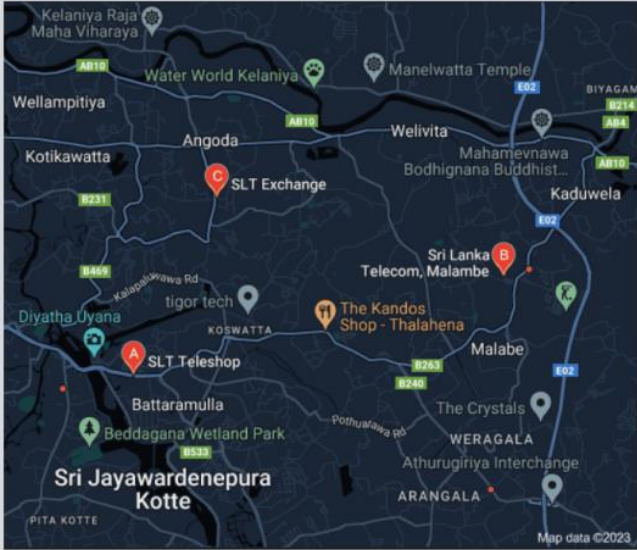
8) View all branch locations



ADMIN USER

Home create teleshop Add agreement Add Inventory Location Upload excel view Employee

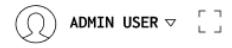
Locations



Lotus Road, P.O.Box 503, Colombo 01, Sri Lanka.

Next

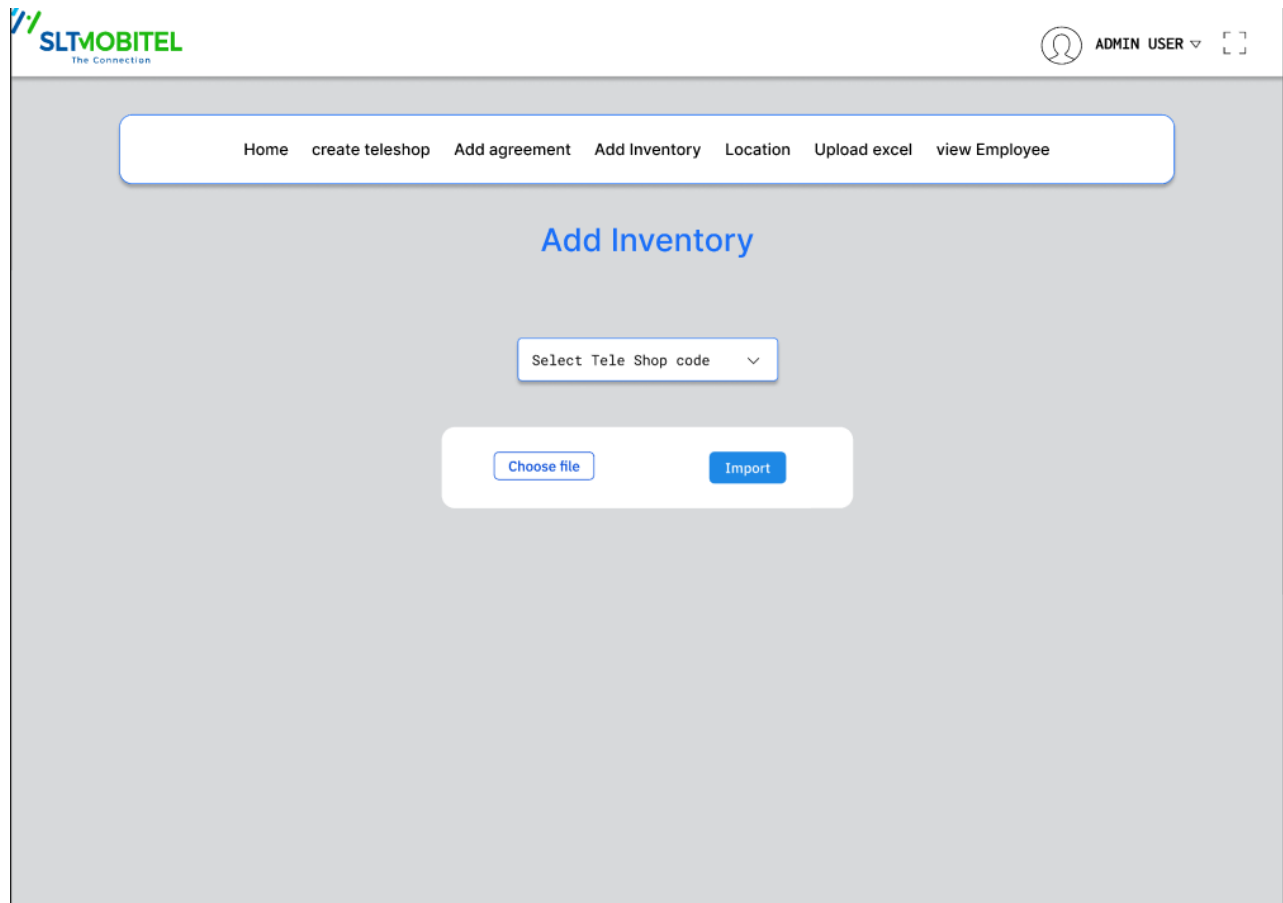
9) Send email



[Home](#) [create teleshop](#) [Add agreement](#) [Add Inventory](#) [Location](#) [Upload excel](#) [view Employee](#)

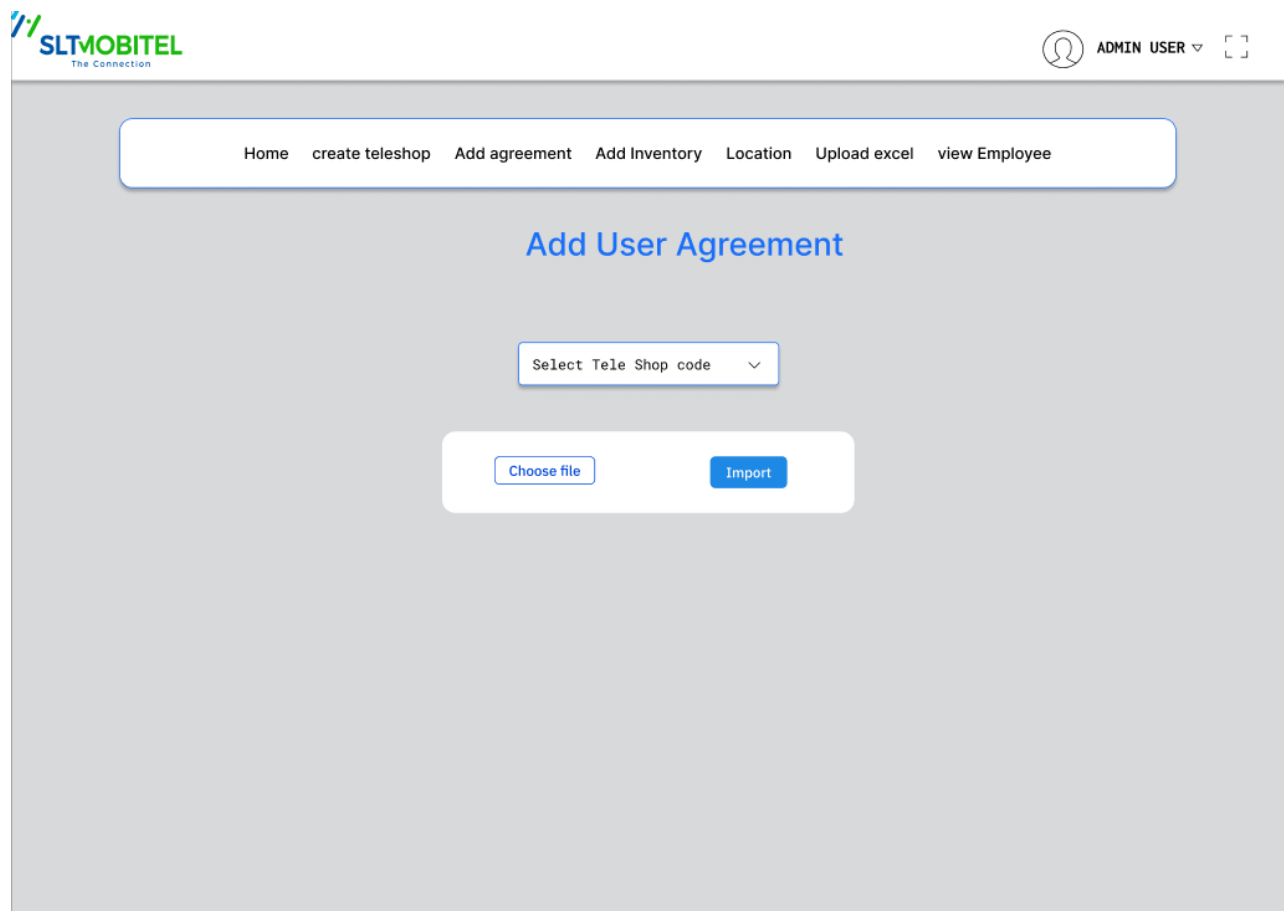
Send Email

11) Add inventory pdf



The screenshot displays the 'Add Inventory' page of the SLTMOBITEL system. The header features the SLTMOBITEL logo with the tagline 'The Connection' on the left, and a user profile icon labeled 'ADMIN USER' with a dropdown arrow and a full-screen icon on the right. A navigation bar below the header contains links: Home, create teleshop, Add agreement, Add Inventory, Location, Upload excel, and view Employee. The main content area is titled 'Add Inventory' in blue. It includes a dropdown menu labeled 'Select Tele Shop code' with a downward arrow. Below this, a white box contains two buttons: 'Choose file' and 'Import'.

12) Add user agreement



The screenshot displays the 'Add User Agreement' page of the SLTMOBITEL system. The header features the SLTMOBITEL logo with the tagline 'The Connection' on the left, and a user profile icon labeled 'ADMIN USER' with a dropdown arrow and a full-screen icon on the right. A navigation bar below the header contains links: Home, create teleshop, Add agreement, Add Inventory, Location, Upload excel, and view Employee. The main content area is titled 'Add User Agreement' in blue. It includes a dropdown menu labeled 'Select Tele Shop code' with a downward arrow. Below this, there are two buttons: 'Choose file' and 'Import'.

Franchise Owner

1) User dashboard



[Home](#) [Manage Employee](#) [Inventory](#) [Agreement](#)

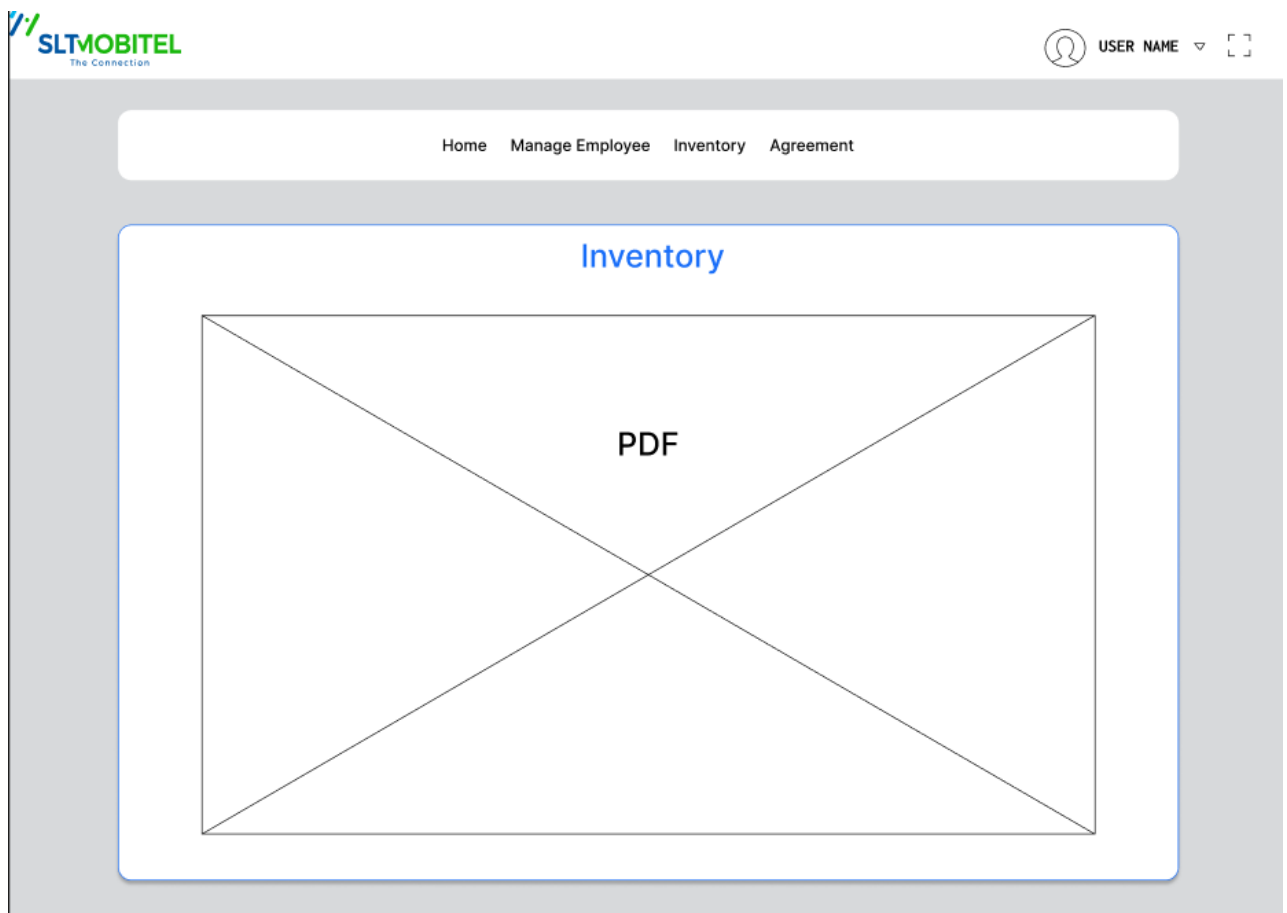
Dashboard

[Manage Employee](#)

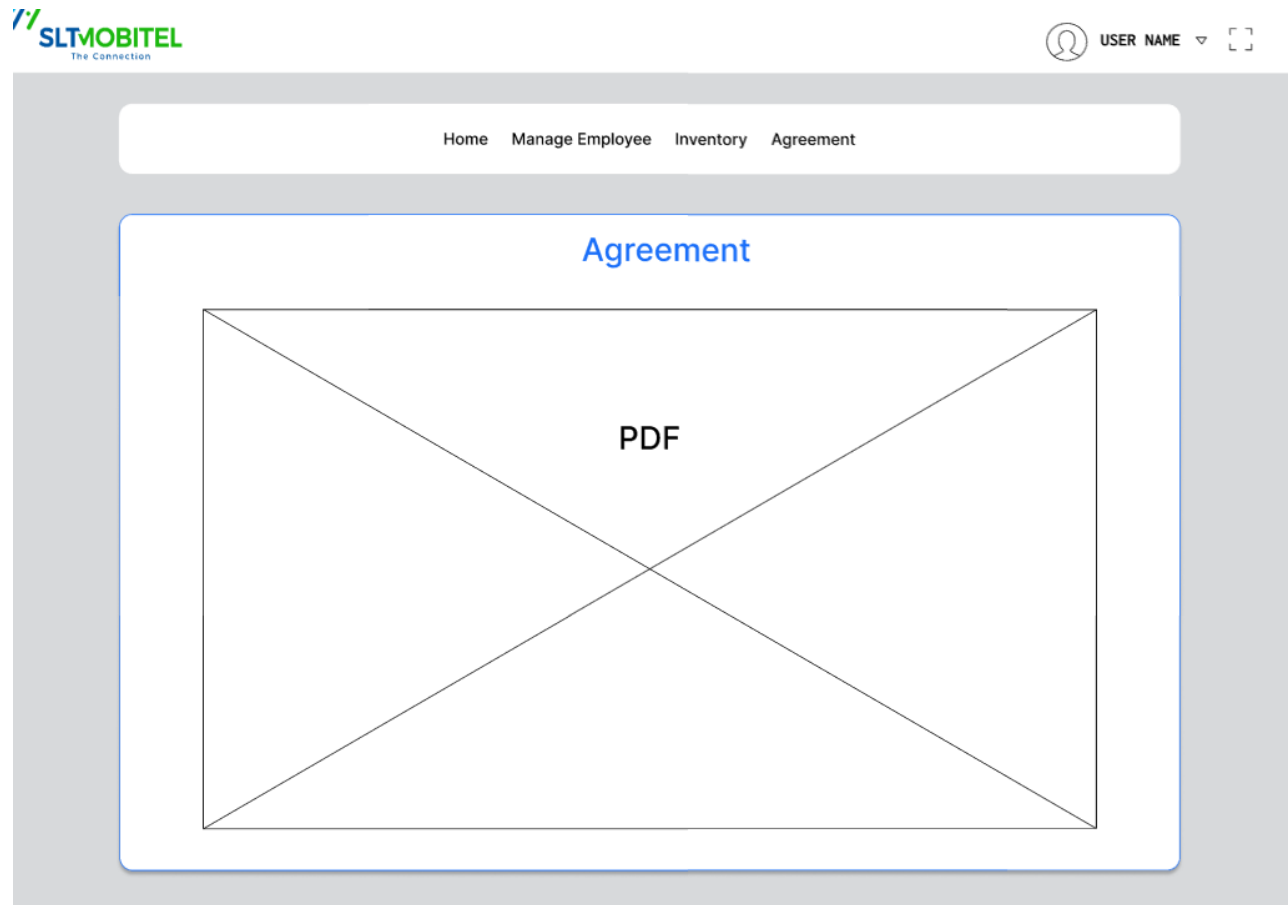
[Inventory](#)

[Agreement](#)

2) View Inventory



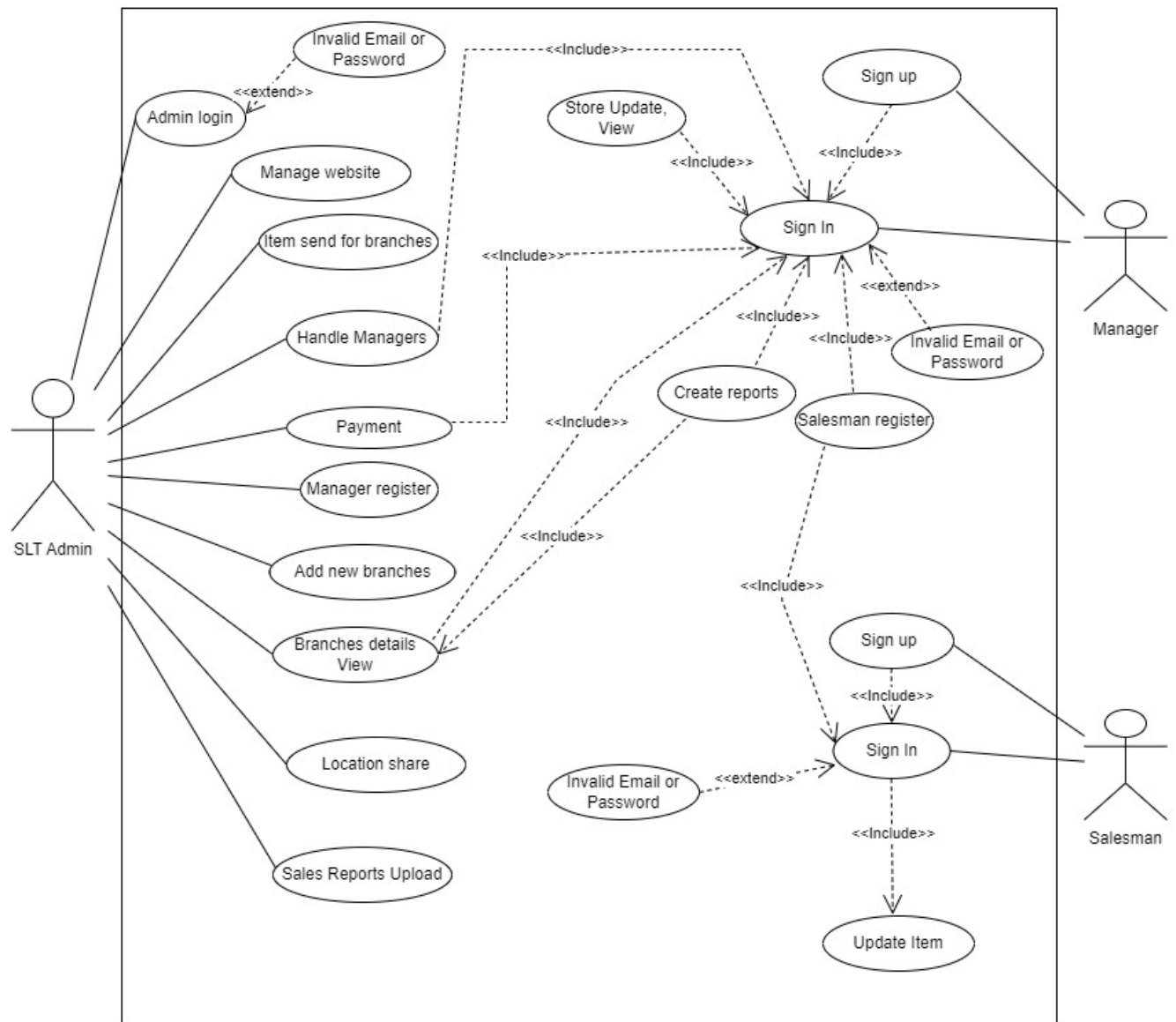
3) View user agreement



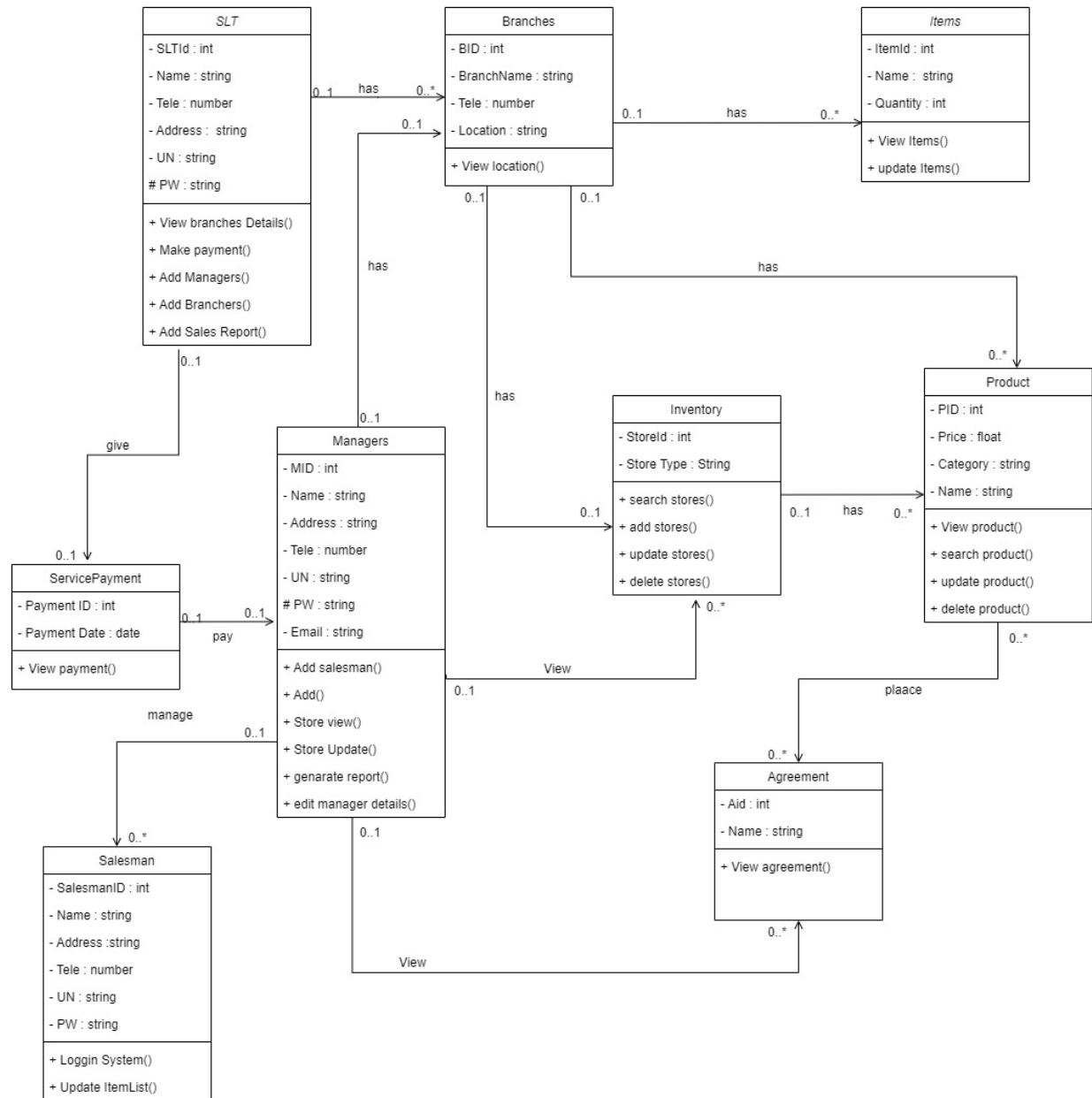
6) Diagrams

6.1 UML Diagram

6.1.1 Use Case Diagram



6.1.2 Class Diagram



6.1.3 ER Diagram

