

Software Requirement Specification

Project Name :- El Mosher Company

Team Member :-

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- 4- Andrew Refeek Gerges
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1. Introduction:-

1.1 Purpose:-

- The purpose of this SRS document is to provide a detailed overview of our software product ; its parameters and goals. This SRS is very important as it sets expectation about system .

It will define all components of the system. It sets out the framework that all the development teams will follow.

- This system will be able to connect all company components together like: (tender time , history of payments and our partners).Our system will be able to distribute company tasks to its worker and remind them of its start and deadline.It will remind them of current tender deadline time. Through client choses ,the system will show his best recommended company to deal with. It will show his operations with difference currency.Our system will control financial business and save the value of implicate envelope and final envelope with its time need.

1.2 Intended Audience and Reading Suggestions:-

This software documentation will be read by the manger of ElMosher company Eng. Emad and the vice president of the company Eng. Samouel Salah and the project team member with the objective to refer and analyze the information.

1.3 Product Scope:-

This SRS will be implemented for ElMosher company which will automate the many operations for the company .

the system goal is to ease ElMosher operations and customers needs .the SRS will serve many services as :-

- Employee management system which mange all employees data [like Name , Salary , National ID ,.....]
- Operations system which include all available operations will be reserved.
- Customer system which include customers data that ElMosher deal with.
- To Do List that mange all employee and their tasks to do .
- History List that includes done operations and their data with its price with dollar and Egyptian currency and current dollar value.

2. Overall Description:-

2.1 Product Perspective:-

This system will be able to connect all company components together like: (tender time , history of payments and our partners).Our system will be able to distribute company tasks to its worker and remind them of its start and deadline.

It will remind them of current tender deadline time. Through client choses ,the system will show his best recommended company to deal with. It will show his operations with difference currency.

Our system will control financial business and save the value of implicate envelope and final envelope with its time need.

2.2 Product Functions:-

- Employee services
- To Do List service
- Client data server
- Operations history (with difference currency)
- Currency operation
- Financial deals and operations
- Different log in option to different users

2.3 User Classes and Characteristics:-

We have 2 user classes

Mangers :- who control all operations of the system and can see all tables in it.

Employees :- who deal with main functions .

2.4 Operating Environment :-

Hardware:-

We need normal PC.

- With RAM => 8GB
- With processor =>corei7
- With hard disk =>1T , SSD=>256GB

Software:-

- SQL Server to manage database(operations , customers ,.....).
- We need internet connection to use web system
- Use MVC .Net Core6, html, css and javascript to build the website.

2.5 Design and Implementation Constraints :-

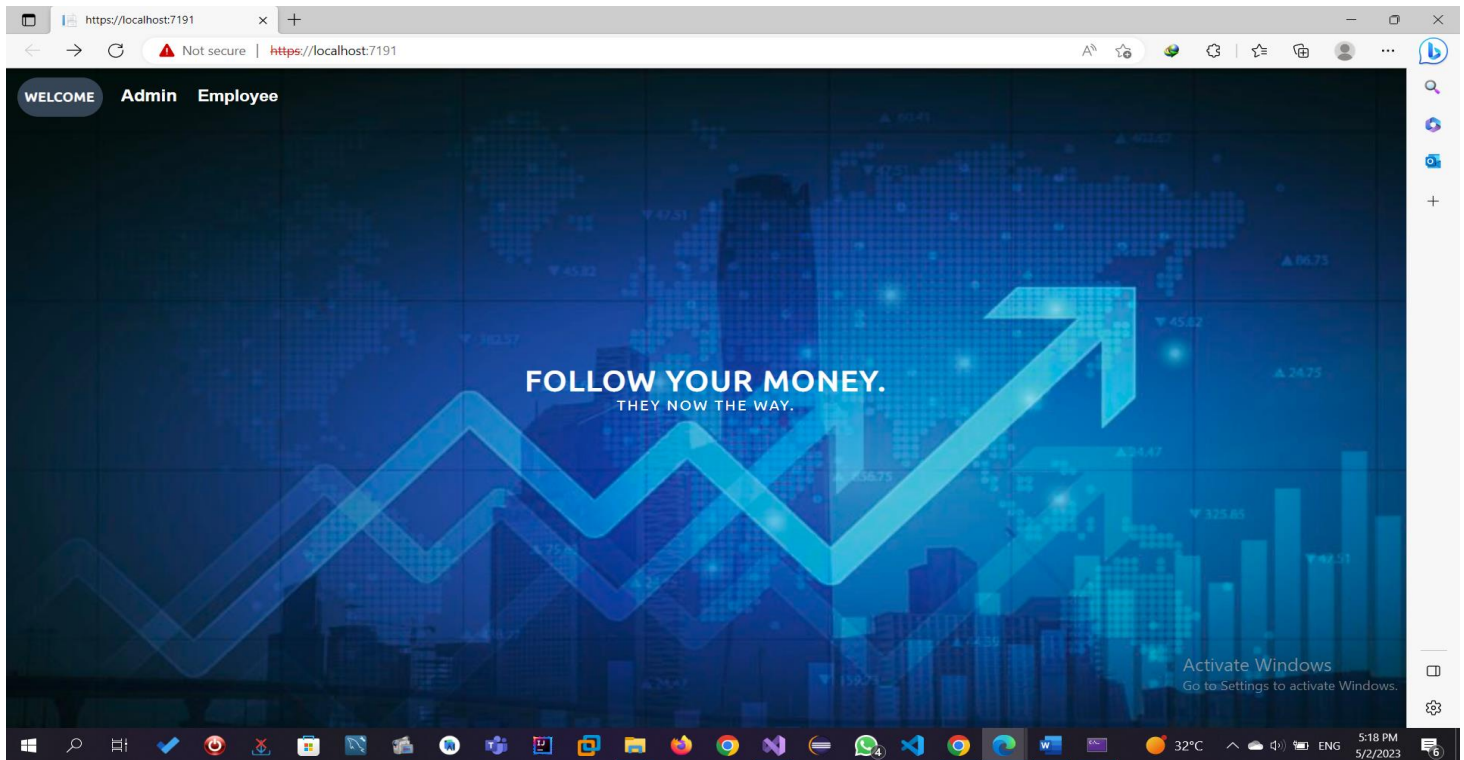
We will use mvc to create web system (use c# in to create controller and use html,css,java script to creat view) .

We will use MySQL to create database.

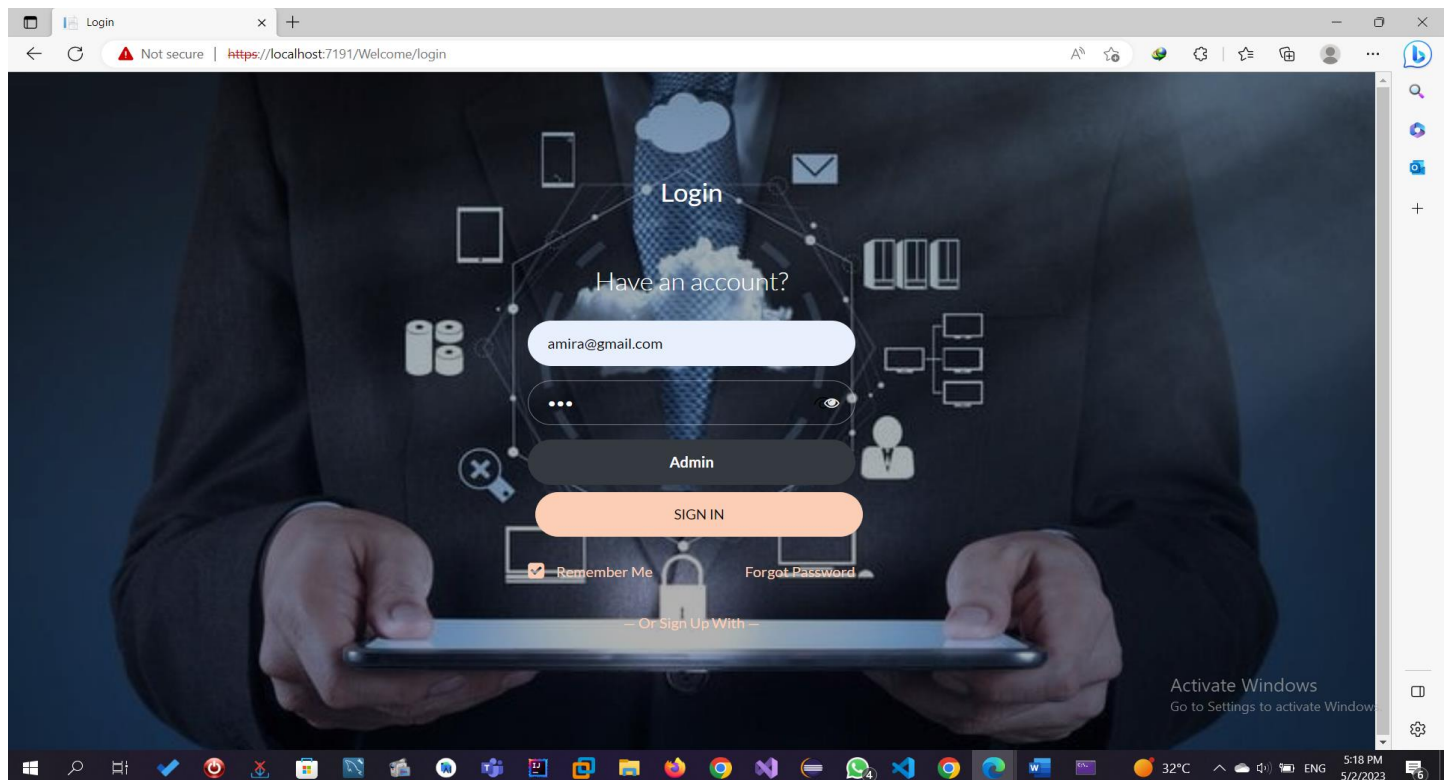
3. External Interface Requirements:-

3.1 user Interfaces:-

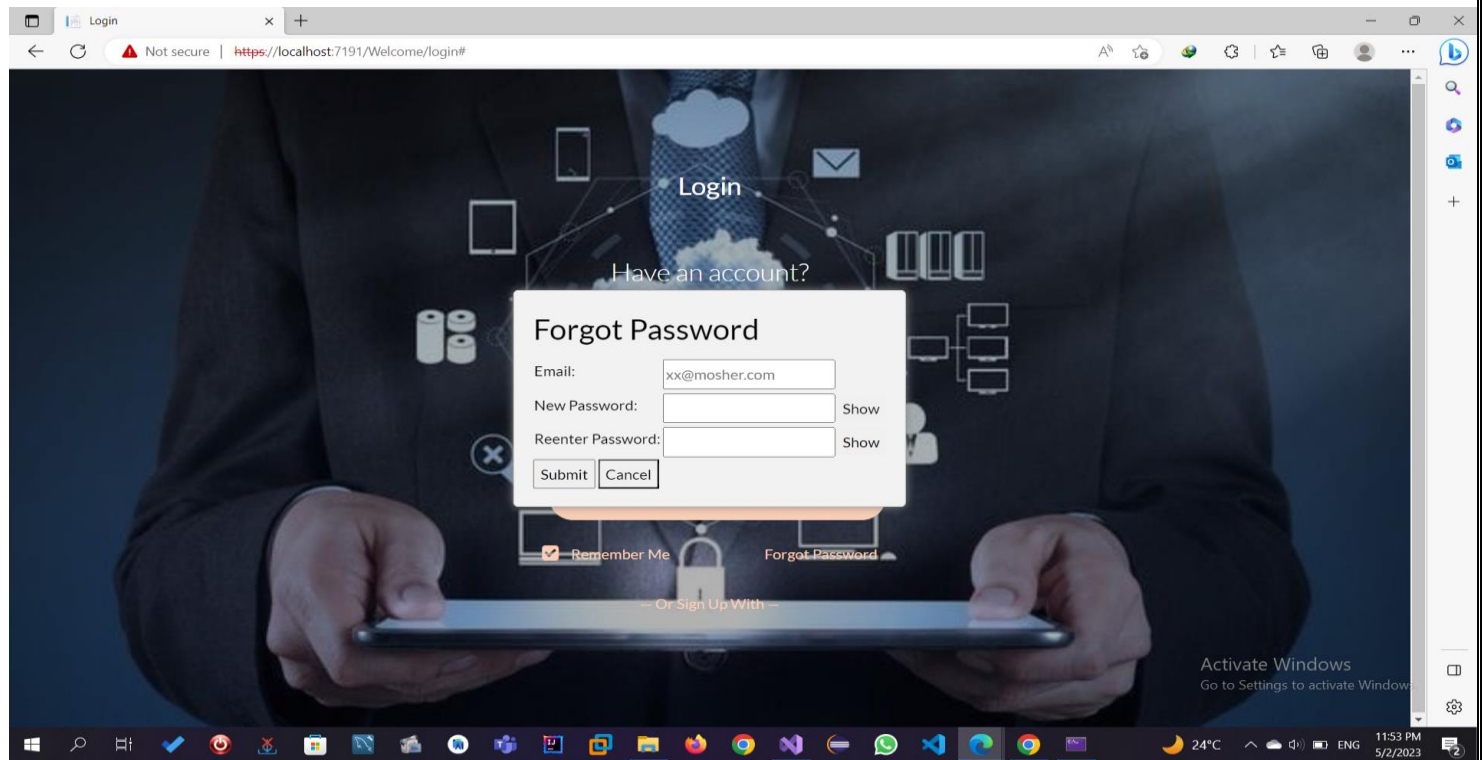
Home page:-



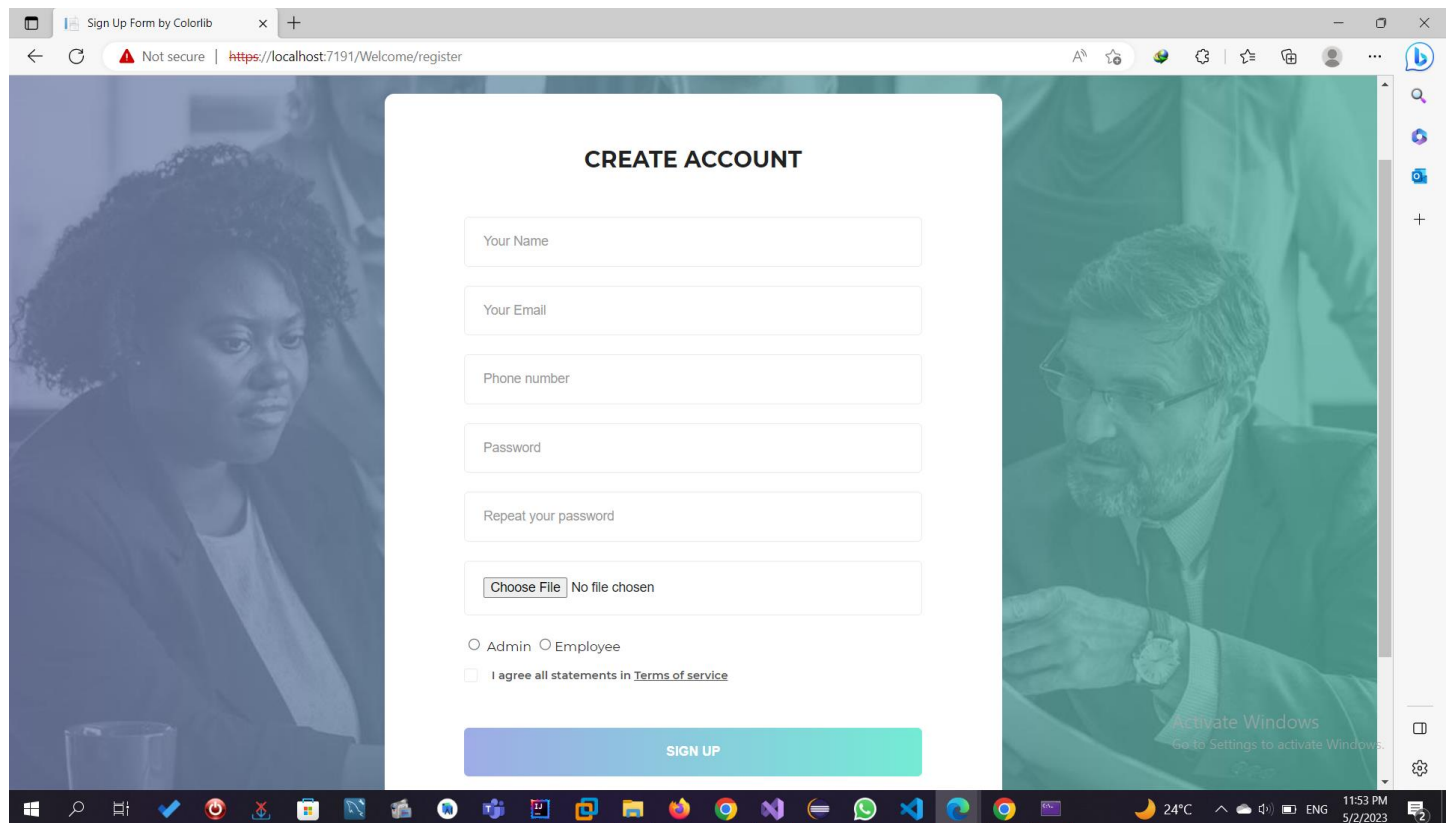
Login screen as Admin :-



Forget password:-



Sign up screen :-



Admin home screen :-

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Activate Windows
Go to Settings to activate Windows.

Example from Owner operation :-

Client

ID	NAME	OPEID	OPENAME	OPTIONS
5	mera	120	main	<button>Add</button> <button>Delete</button>
9	amira	60	cars	<button>Add</button> <button>Delete</button>
11	samaa	52	oop	<button>Add</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

ELMOSHER Home

addclient

client

clientName

operationID

0

operationName

Create

[Back to List](#)

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Activate Windows
Go to Settings to activate Windows.

ELMOSHER Home

Delete

Are you sure you want to delete this?

client

clientName	mera
operationID	120
operationName	main

Delete | [Back to List](#)

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Activate Windows
Go to Settings to activate Windows.

Employee

Not secure | https://localhost:7191/services/Employee

M.

Client

ToDoList

Employee

Operations

Finance

History

Employee

ID	IDNAME	EMAIL	PASSWORD	IMAGE	AGE	SALARY	OPTIONS
8	klara	mona@gmail.com	162020611		30	3000	<button>Edit</button> <button>Add</button> <button>Delete</button>
22	mera	mera@mosher.com	162020613		26	2000	<button>Edit</button> <button>Add</button> <button>Delete</button>
34	amira	mona@gmail.com	121212121		40	10000	<button>Edit</button> <button>Add</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

ELMOSHER

Home

EditEmployee

Employee

employeeName

klara

Email

mona@gmail.com

password

162020611

employeeimage

Choose File

No file chosen

age

30

state

admain

salary

3000

Save

[Back to List](#)

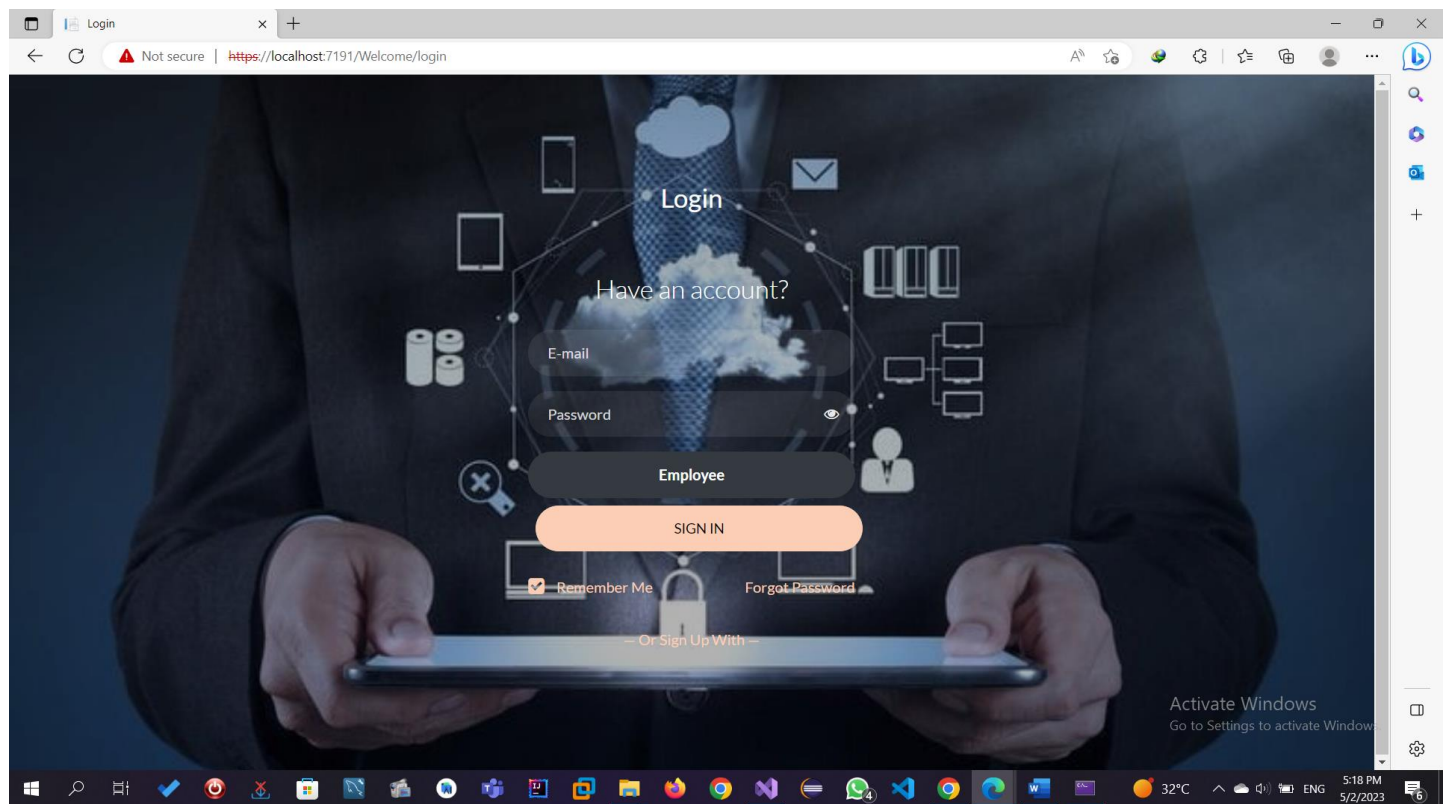
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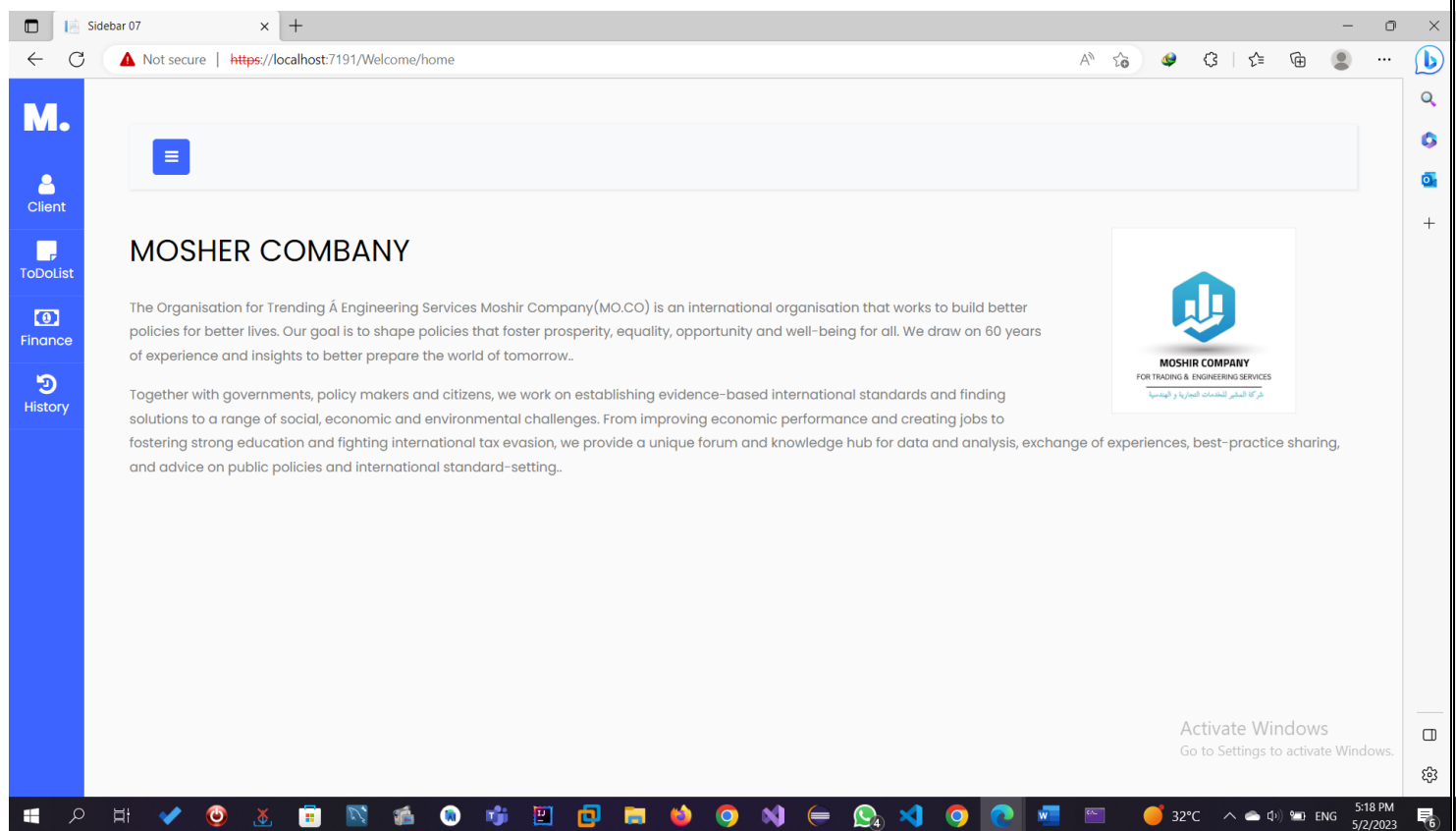
5:19 PM

5/2/2023

Login as Employee:-



Employee home screen :-



Example from Employee operation :-

client

Not secure | <https://localhost:7191/services/empClient>

M.

Client

ToDoList

Finance

History

Client

ID	NAME	OPEID	OPENAME
5	mera	120	main
9	amira	60	cars
11	samaa	52	oop

Activate Windows
Go to Settings to activate Windows.

5:18 PM 5/2/2023

ToDoList

Not secure | <https://localhost:7191/services/ToDoList>

History

Tasks Schedule Table

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
x	taskID:123 taskName:ships empID:123 deadline: 1/5/2023 <input type="checkbox"/> checked	x	taskID:123 taskName:ships empID:123 deadline: 1/5/2023 <input type="checkbox"/> checked	x	x	x
taskID:123 taskName:ships empID:123 deadline: 1/5/2023 <input type="checkbox"/> checked	x	taskID:123 taskName:ships empID:123 deadline: 1/5/2023 <input type="checkbox"/> checked	x	x	taskID:123 taskName:ships empID:123 deadline: 1/5/2023 <input type="checkbox"/> checked	x

Activate Windows
Go to Settings to activate Windows.

5:18 PM 5/2/2023

3.2 Hardware Interfaces:-

we need normal PC with big hardware to store data .

[With hard disk =>1T , SSD=>256GB]

we need scanner to scan paper and documents.

[Scanner Type: Flatbed

2-Sided scan: Yes

Scanning quality (Up to): 200 / 300 dpi, Monochrome: 10 image/min - Color: 10 image/min

Resolution: 200 / 300 dpi

Interface: USB 3.0, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T) (optional)

Scanning Speed (Up to): Monochrome: 25 pages/min - Color: 25 pages/min

Dimensions: 451 x 315 x 120 mm]

3.3 software Interfaces:-

We will use windows operating system with last version and. we will use messages app to send messages to it. we will use reminder message to remind them with tender time .

3.4 communications Interfaces:-

- We will use HTTP protocol to connection between devices.
- Your handset uses the Short Message Peer to Peer (SMPP) protocol to communicate with Telephone operators gateways. SMPP is used to send and receive messages from and to GSM, UMTS, iDEN, CDMA, and TDMA cell phones.

4. System Features:-

4.1 system feature :-

4.1.1 home page :-

This page appears differently if you log into the system as an employee or as an owner. If you enter as employee, the side bar contains the employee services but if you enter as admin, the side bar contains all services.

4.1.2 Employee services:-

This service is only for the owner who can use it and modify its data and add a new employee or delete an employee. This service includes data about the Company employees.

4.1.3 To-Do-List

This service appears differently if you log into the system as an employee or as an owner. If you are an employee, it includes all tasks that the employee does in this time and the employee can only check done in your tasks that have been assigned to you; But if you are an owner, you can add new tasks (adding tasks includes specifying the deadline and specifying the employee responsible for the task) and can remove tasks from the list.

4.1.4 client

This service appears differently if you log into the system as an employee or as an owner. If you are an employee, you can only show the data about clients who have dealt with the company in the past and you cannot do any option; But if you are an owner, you can add data about new client and can delete client who the company dealt with in the past.

4.1.5 History Operation

This service appears differently if you log into the system as an employee or as an owner. If you are an employee, you can only show the data about previous operations. But if you are an owner, you can add data about operation which is complete to store all the company's operations for viewing and benefiting from in the future and you can delete operation from history.

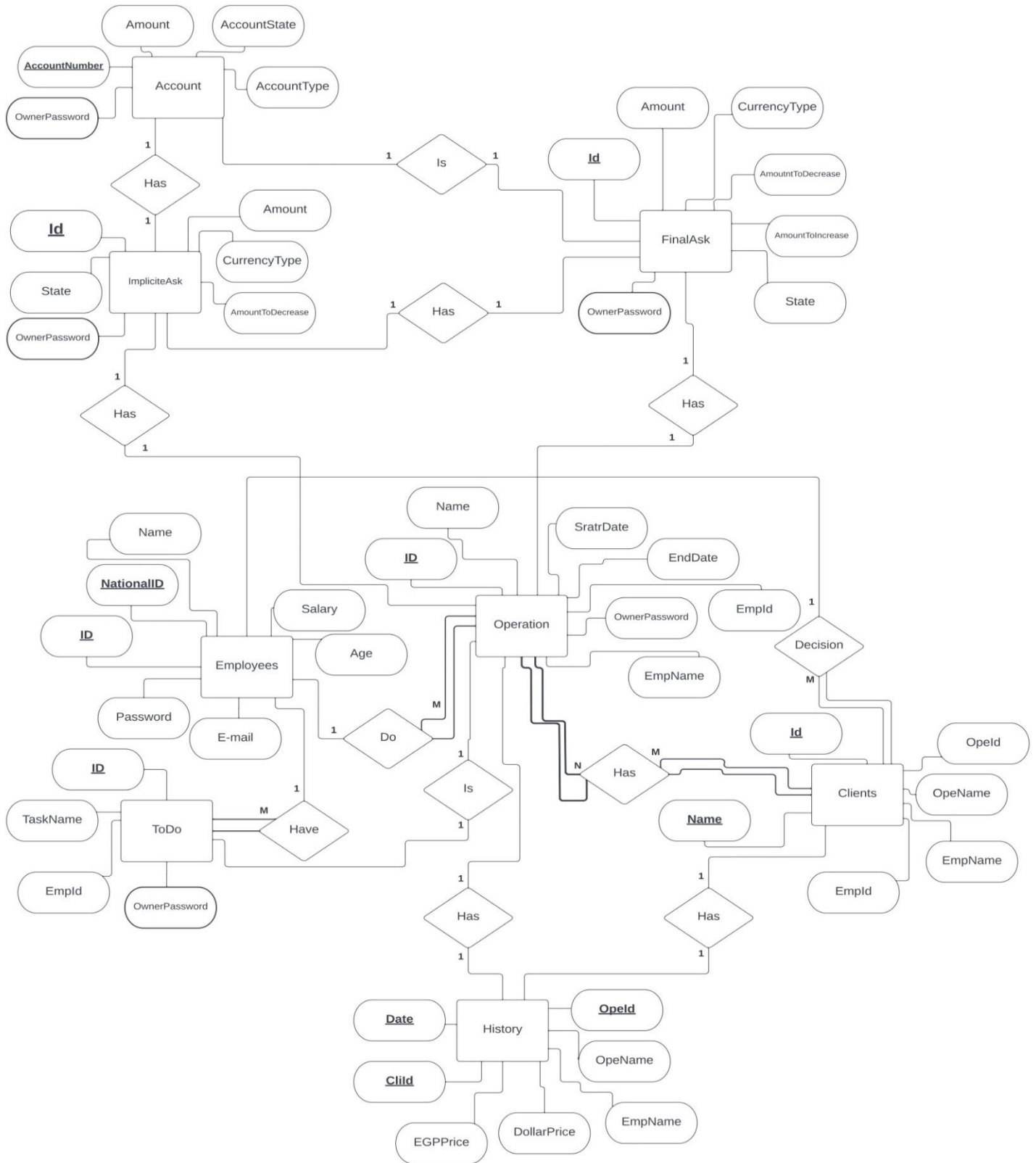
4.1.6 Finance services:-

This service appears differently if you log into the system as an employee or as an owner. If you are an employee, you can only show the finance information about each operation (currency operation or operation which is complete). But if you are an owner, you can add new finance information about currency operation and you can edit information (taxes, maintenance amount) in any finance operation.

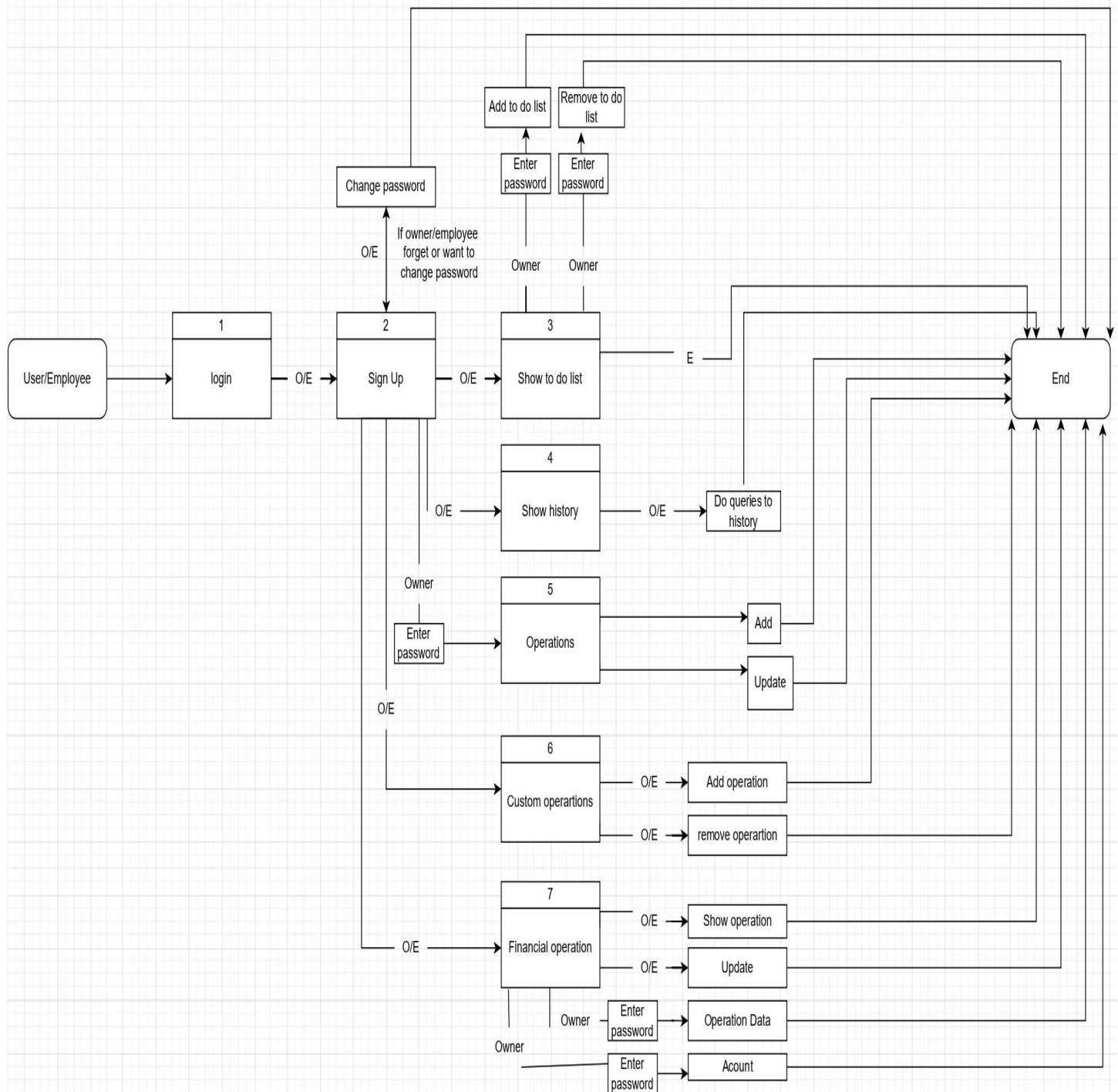
4.1.7 operation :-

this services only owner who can use it and it include data about current operation (The company has more than one operation to operate at present)so you can add this information or can edit this data

4.1 E-R Diagram:-



4.2 Use Case Diagram:-



4.3 Use Case Scenarios:-

1)

Use Case Name	Log in	
Goal	Log in into system	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	The user must be an owner or employee	
Post condition	Go to sign in page	
Triggers	Owner or employee enter to system	
Main Flow	step	Action
	1	Open system in your pc
	2	Choose owner or employee operation
Extensions	None	

2)

Use Case Name	Sign in	
Goal	Sign in to system	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	Choose owner or employee options	
Post condition	Go to the home page and be signed in into your account	
Triggers	Make owner or employee to sign in into system	
Main Flow	step	Action
	1	Enter company e-mail
	2	Enter phone number
	3	Enter password
	4	Press to sign in button
	5	Answer some question your self knows the answer
Extensions	*If employee forget password	
	step	Action
	1	Go to owner to change password
	step	Action
	1	Answer some question you answered before
	2	Receive message on your mobile number with new password

3)

Use Case Name	The history operation page	
Goal	Show history operation	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	Owner or employee must be sign in and in your home page and select history operation option	
Post condition	Owner and employee know the history operation	
Triggers	Owner can see information about history operation and add done operation in history page and employee can only see information about history operation	
Main Flow	step	Action
	1	Login to system as admin
	2	Enter to home page
	3	Choose history services from side bar
	4	Show history operation from page
	5	Add done operation in the history page
	6	Do some operation like (query) in history operation page
Extensions	If you don't connect to the internet you will not be able to do any operation on page And if you enter to system as employee you can only show history operation	

4)

Use Case Name	Currency operation page	
Goal	Show and update data on operation page	
Primary Actors	Owner	
Secondary Actors	None	
Precondition	Owner must be sign in and choose operation services from home page	
Post condition	Owner has been show and updated his operation	
Triggers	Owner can see currency operation and update(add or delete) operation	
Main Flow	step	Action
	1	Login to system as admin
	2	Enter to the home page
	3	Choose operation services from side bar
	4	Show information about currency operation
	5	Update on currency operation
	6	Do some operation like(query or search)in operation page
Extensions	If you don't connect to the internet you will not be able to do any operation on page	

5)

Use Case Name	Customer page	
Goal	Show and Update customer information	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	Owner or employee must be sign in and in your home page and select customer option	
Post condition	Owner or employee have been show Customer information	
Triggers	Owner can see information about customer who deal with before and update (add or delete)customer ,employee only can see information about customer	
Main Flow	step	Action
	1	Login to system as admin
	2	Enter to home page
	3	Choose client services from side bar
	4	Show information about client who deal with
	2	Update customer information
	3	Do some operation like (query) in customer page
Extensions	If you enter to system as employee you can only see information about client and you can't do any query in data	

6)

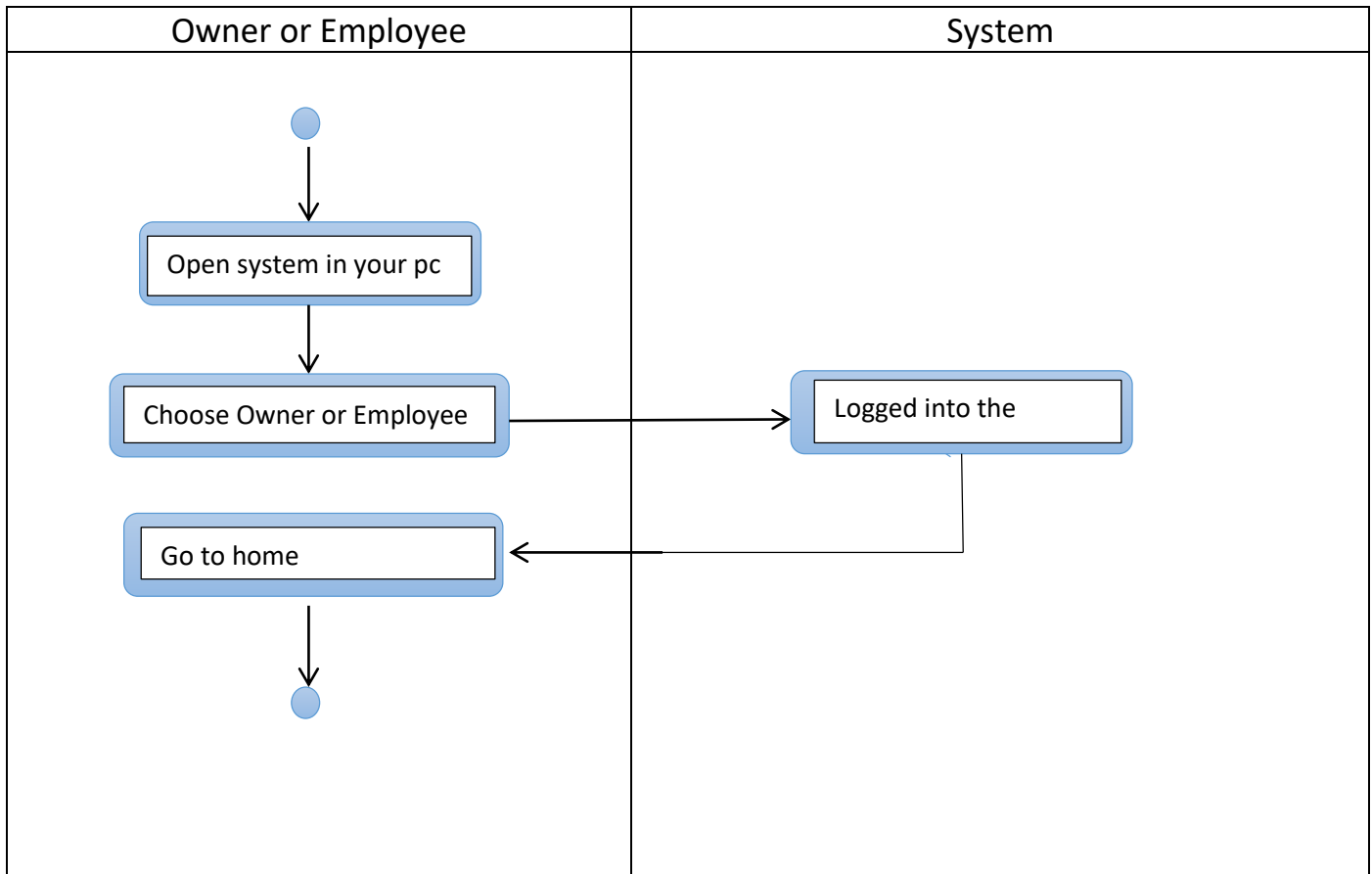
Use Case Name	To Do List	
Goal	Show ,Remove and add tasks in To Do List	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	Owner or employee must be sign in and in your home page and select To Do List option	
Post condition	A task has been added or removed to an employee <ul style="list-style-type: none"> ➤ Owner will be able to know all employee tasks and update (add and delete) task for all employee. ➤ Employee can see all tasks which must deadline in this time and can check done in your tasks 	
Triggers	Owner be able to remove and add tasks in To Do List ,employee show tasks and check done	
Main Flow	step	Action
	1	Login to system as employee
	2	Enter to home page
	3	Choose to do list services from side bar
	4	Show all task
	5	Check operation that have been done
Extensions	*If the owner who will chose the option	
	step	Action
	1	Login to system as admin
	2	Enter to home page
	3	Choose to do list services from side bar
	4	Show all task
	5	update tasks for all employee
	6	Add new tasks

7)

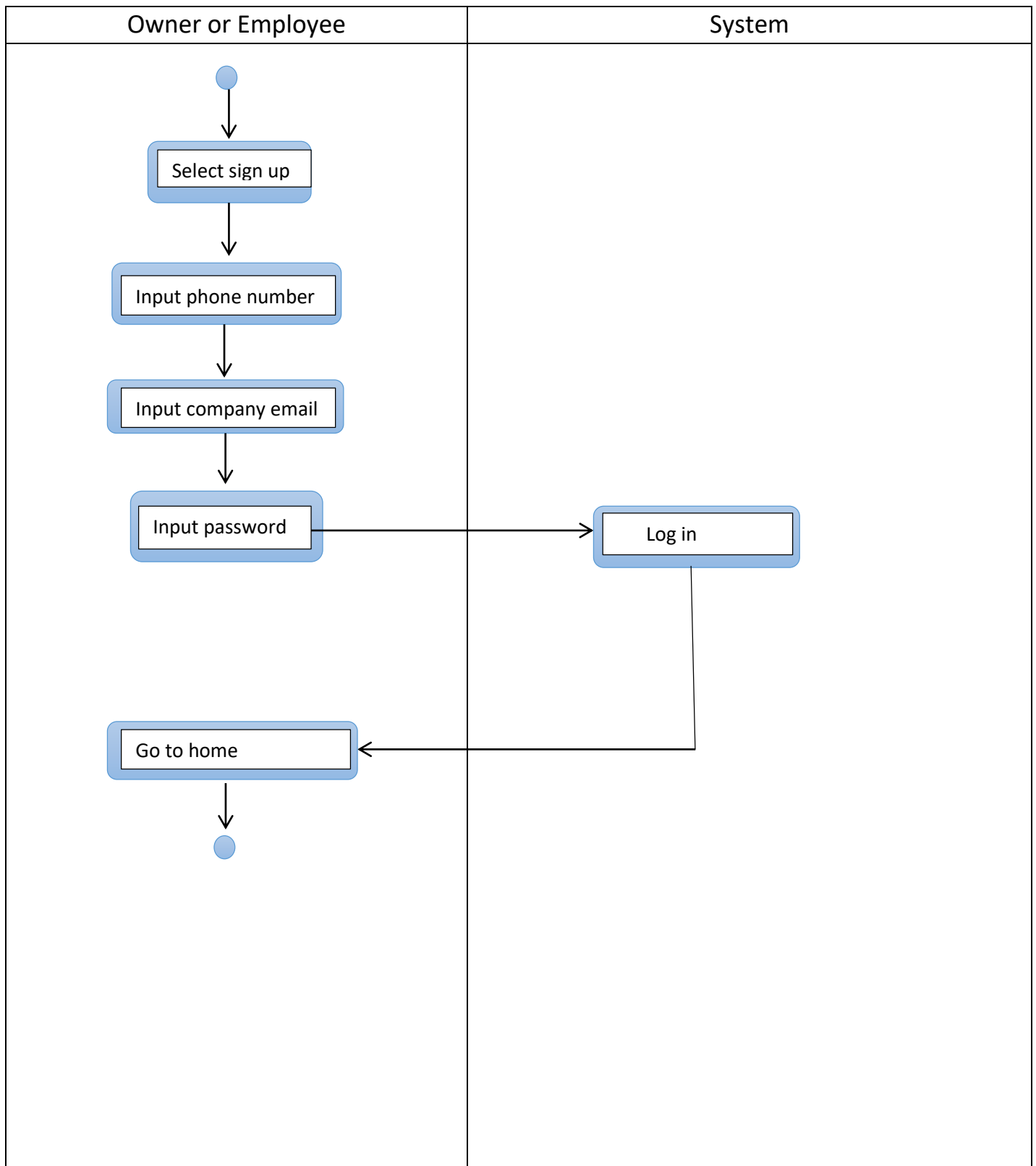
Use Case Name	Financial operation	
Goal	show and update financial page	
Primary Actors	Owner or Employee	
Secondary Actors	None	
Precondition	Owner or employee must be sign in and in your home page and select financial option	
Post condition	<ul style="list-style-type: none"> The owner has the ability to show all operation path and the amount of money in all company's accounts The employee and owner have been able to update (add and delete) financial operation . 	
Triggers	Owner or employee can add and delete financial information in page and only owner can see company's account	
Main Flow	step	Action
	1	Enter to Financial operation
	2	owner and employee add financial operation
	3	owner and employee delete financial operation
Extensions	*If the owner who will chose the option	
	step	Action
	1	Enter to Financial operation
	2	Owner enter password
	3	Owner show all operations paths
	4	Owner show all company's accounts

4.4 Activity Diagram :-

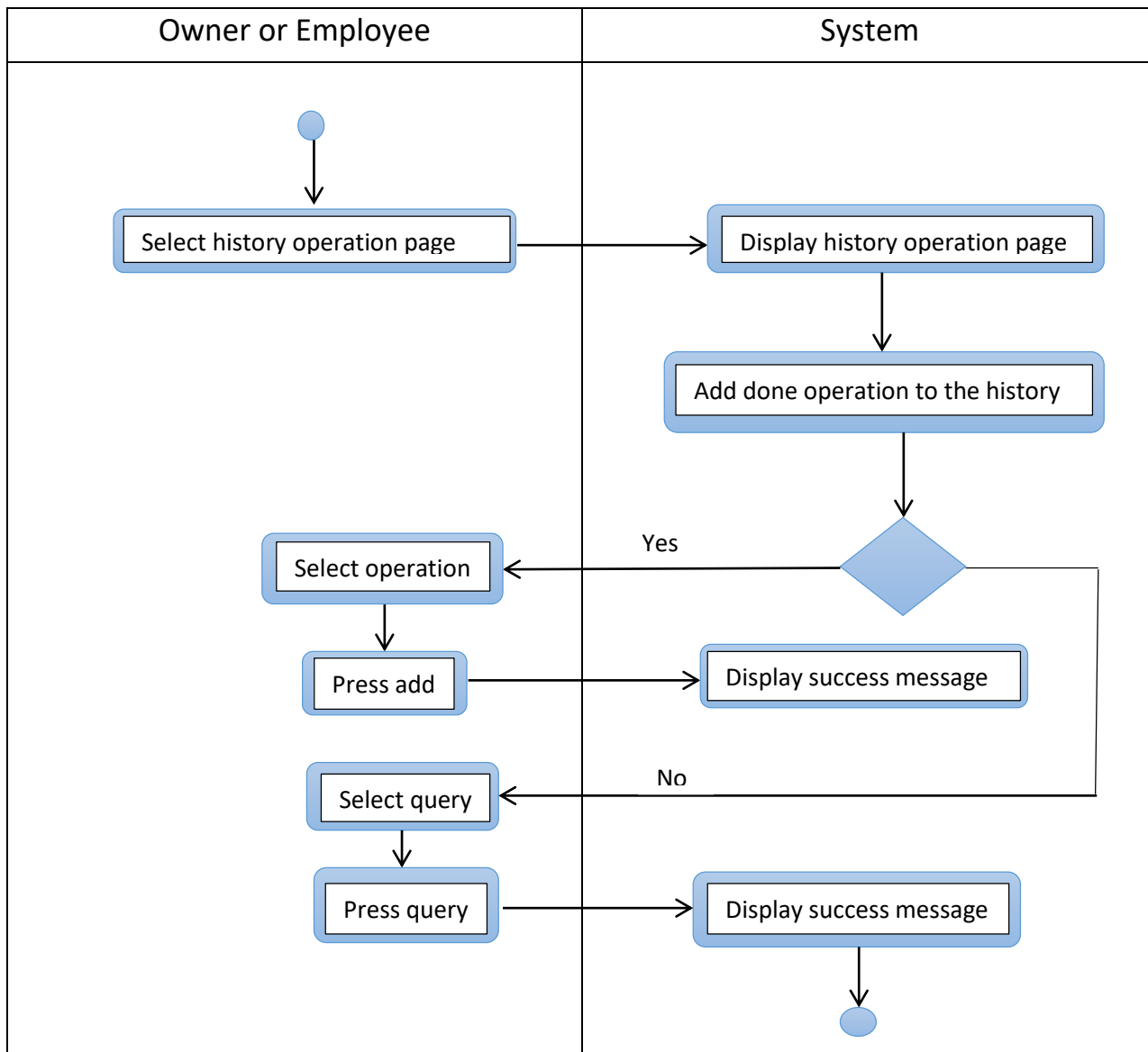
1-Log In



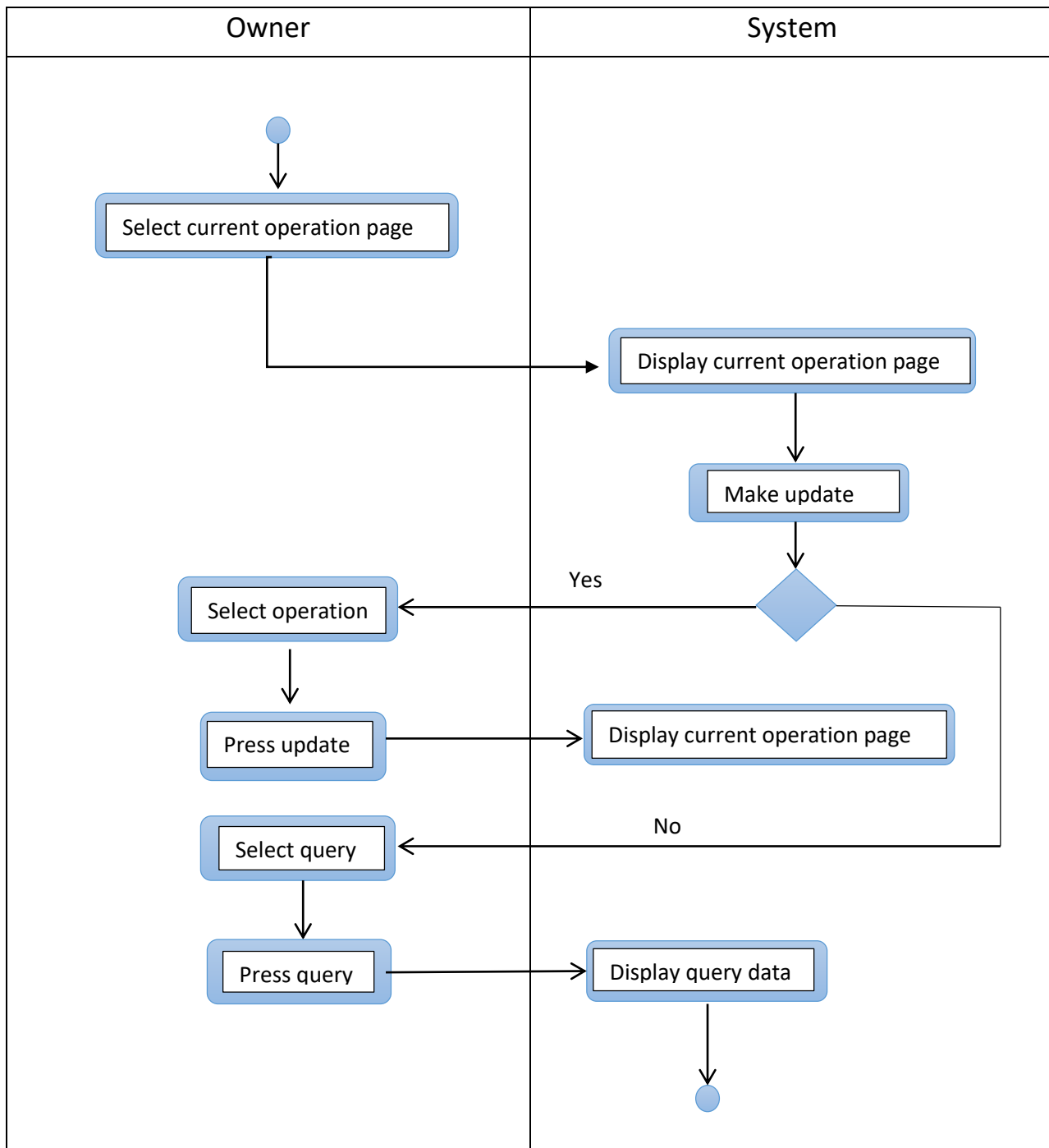
2-Sign up



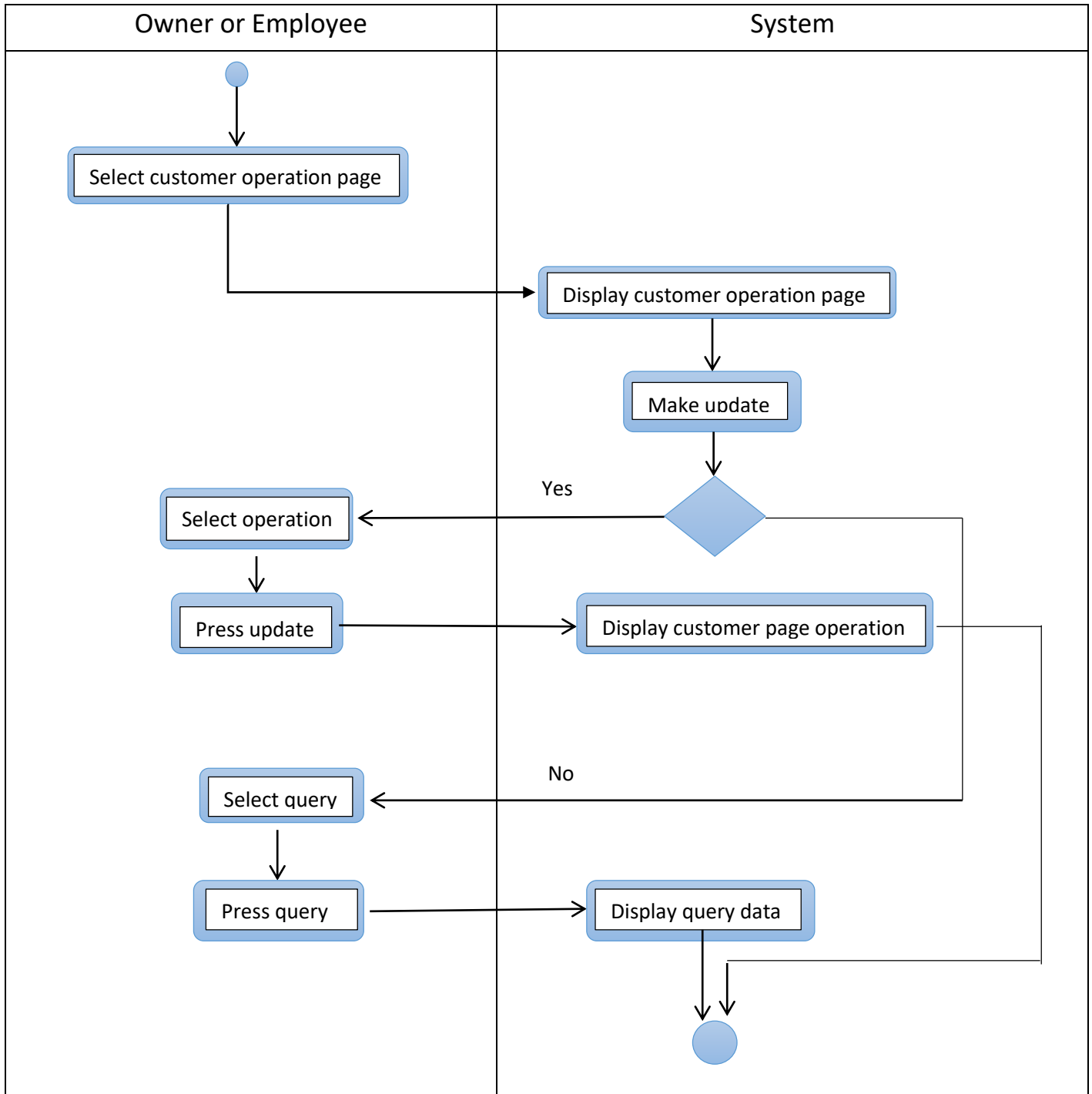
3-History operation page



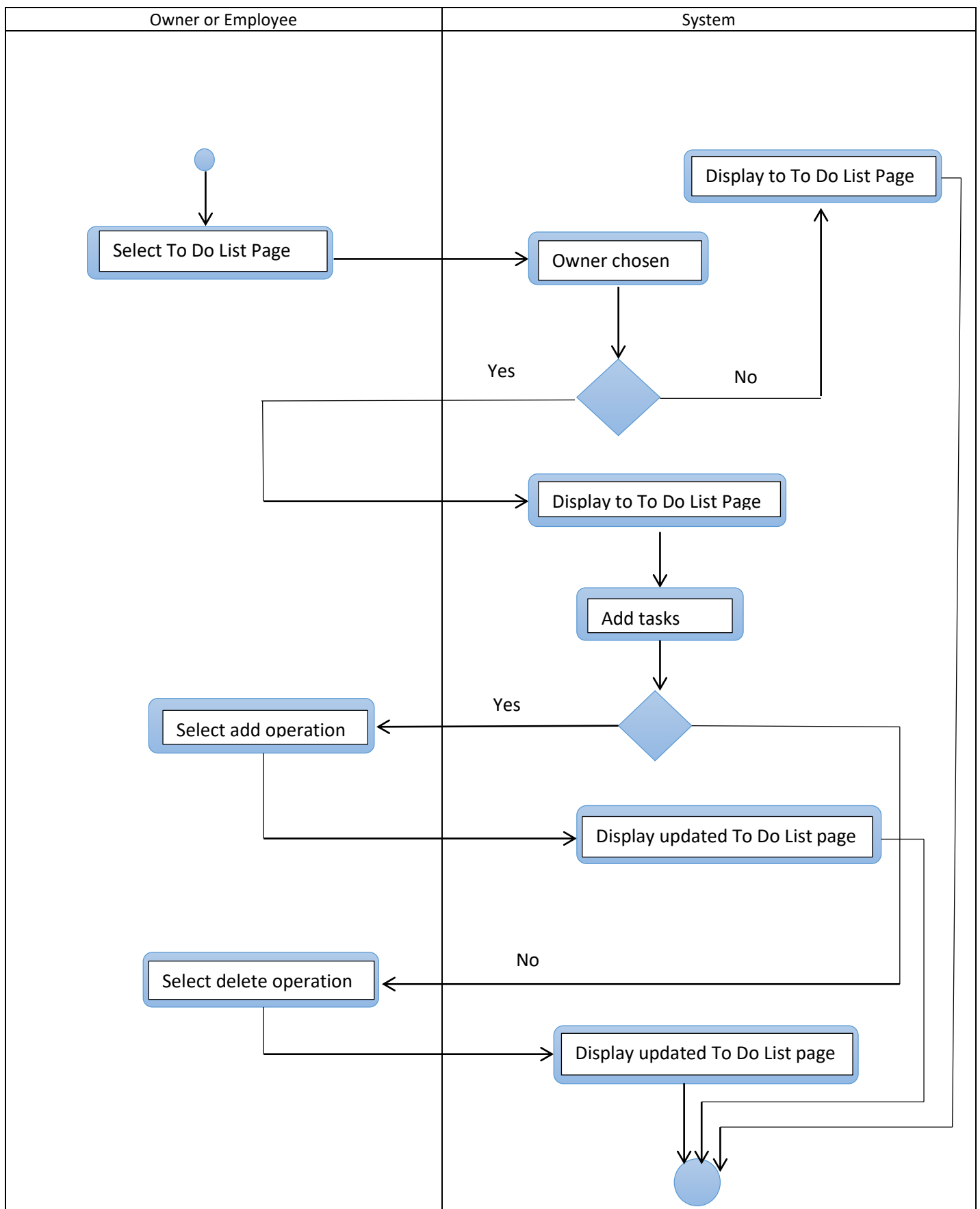
4-Current operation page



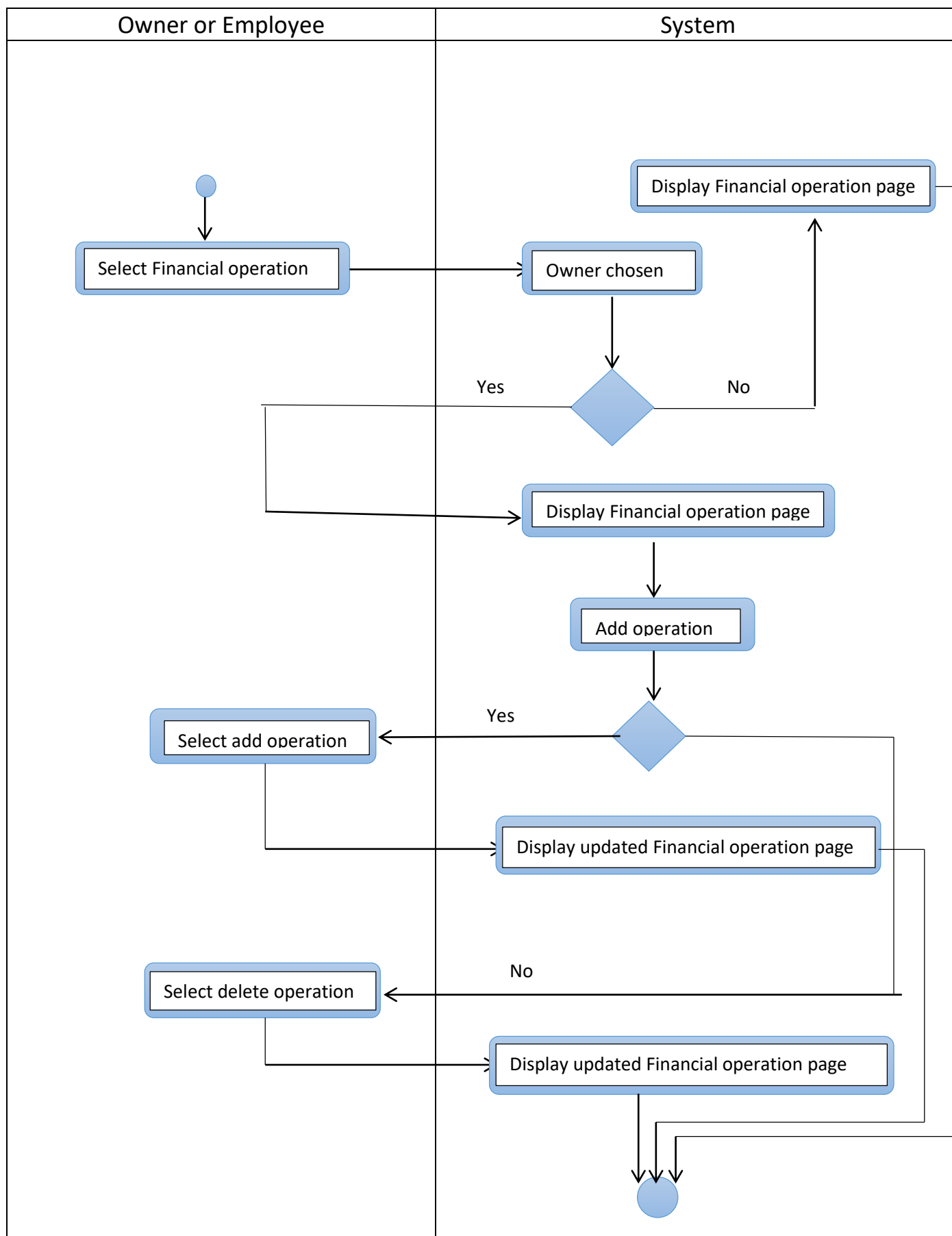
5-Customer operation page



6-To Do List



7-Financial operation page



5. Other Nonfunctional Requirements:-

5.1 Performance Requirements :-

The response time take 5 seconds to run system with least performances ,the performance of the system will be high by the performance of the software and hardware components of the computer pc , the system load time to show user interface screen no longer than 2 seconds ,the login information will be verified in 5seconds, returning query result within 5 seconds , and this make the system more efficiency.

5.2 Safety Requirements :-

The owner will have a specific hard disk to save all company data ,The system will maintain the system backup to ensure the system database security , system can be restoring in any emergency .

5.3 Security Requirements :-

There will be strong firewall to prevent malicious user or any threats

Employee and owner can be able to login to the system with enter email and password :-

- Employee will have access in specific operation and can't access other operation .
- Owner has all ability to access all subsystem and access specific operation only you can access ; this need to enter owner password to show his own operation .

5.4 Software Quality Attributes :-

- Availability:- The system should be available full time .
- Correctness:- The system will achieve all user's requirement .
- Efficiency:- The system will be able to run in normal PC with big hard disk to store data , the system will be load within 5 seconds .
- Flexibility:- System will be able to add new features to the system and handle them easy.
- Integrity:- The system will be safe and secure and save data by login before show all operation (by writing e-mail and password) and some operation cant employee show the data so owner need to enter password before access this data; the data will not be lose because we have a backup from all data in system and the system able to reflect any change .
- Maintainability:- The system will able to access change in data and access in coding and design change without making any integrate in data .
- Portability:- The System will run in operating system (windows) at last version of windows.
- Reliability:- The system is reliable so it has test time between failure and recovery and the system will save the data if any error happened and we have backup of all data.
- Reusability:- This system can't be reusable in other system because it is for specific type of user and customer .

- Testability:- we can give the customer a proto type to try it and gain value from it and any other need will be add as new version of the system .
- Usability:- The system is easy to use from customer because each feature is clearly explained.
- Robustness:- The system will able to make all operation stable and avoid any failure in database or system.

5.5 Business Rules :-

The system will be used by the owner and employee :-

- The owner will manage all operations and has unique ability to access some operation like (financial and employee) .
- The employee has the ability to access some operations that the owner can also access like (To- Do List and the history operation).

The overall income to us is the agreed amount of money with the company and all amount of money invested from us to any used tools.