A Project Report On

“M/S PARTHA ENTERPRISE”

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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APPROVAL OF PROJECT

This project titled on “M/s Partha Enterprise”, submitted by Partha Protim Ghose, ID: 181-35-2350 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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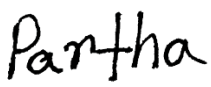
DECLARATION

I hereby declare that I have done this project under the supervision of Md. Shohel Arman, Senior Lecturer, Department of Software Engineering, Daffodil International University. I also declare that this project or any part of this is unique and has not been submitted elsewhere for the award of any degree.

Submitted By:



……..
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First and foremost, all thanks to God for giving the strength to start and complete my project.

Secondly, I want to thanks Daffodil International University for giving me a great chance to hence myself and also developing this project, thirdly I want to appreciate my department of software engineering especially our honorable head **Dr. Imran Mahmud** and my dear teachers for excellence teaching and providing such incredible study.

This project is called National Identification System and it's about new way to register and keeping the information of the citizens in safe and secure, really i am very proud and happy to make this project and remark one of my dreams done.

I also want to thanks my dear parents for their encouragement and endless support and my friends who also gave hand for this project.

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Partha Protim Ghose

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CHAPTER-1

INTRODUCTION

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1.1 Project Overview

M/s Partha Enterprise is a software System. In this system we can easily maintain my business. This system Manager can Enter daily register data, stock register data, upload documents, maintain due and create a over view report and submit this system. Admin can view this overall report. This is admin-based system. Our inventory is one of our most valuable assets. In retail, and other inventory-intensive sectors, our inputs and finished products are the core of our business. That is the main motivation behind this project.

1.2 Project Purpose

We have a fertilizer business named M/s Partha Enterprise. But so far, we have been managing our data manually at excel. As our business is growing now, we are badly in need of a software.

Make a fledged software that will help to maintain my business.

1.2.1 Benefits

- Calculating daily sales
- Estimating day-to-day collection
- Computing regular payment
- Estimation of monthly sales
- 6.An accurate count of the monthly collection
- 7.Doing a calculation of monthly payment
- 9.Correct sense of customer dues
- Minute Analysis of the total stock
- 12.Having brains of daily profit

1.3 Stakeholders

I have 3 stakeholders.

- Admin
- Manager

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- Employee

1.3.1 Admin

Admin are the main authority of the whole system, who will manage the full system. Admin controls all activities, all users access of the system. Admin can. Admin can manage the system and gives the assistance other user.

1.3.2 Manager

Manager is the most important stakeholder in this system. Manager is the main assets for this system. Manager can see all the services through the system. Manager can control this system and create a report foe admin.

1.3.3 Employee

Employee are the important role for the system. At first, they submit this attendance. And they are also seeing his salary report and attendance report.

1.4Modules of this System

- Login: Used for users' authentication
- Dashboard: Used for total information show
- Daily Register: Used for daily sell register system
- Stock Register: Used for daily stock register system
- Documents: Used for all documents for this system
- Due: Used for due list information
- Report: Used for manager report for admin

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1.4.1 Focused Module

- Login – After providing a correct password and user name users can logs in to the system. Here Admin have to login when he/she can access this system.

- Stock Register – After login user can see stock register portal. In this module user can add their stock information, update information.

- Sell Register – After login user can see sell register portal. In this module user can add their sell information, update information.

- Report – After login manager can see report portal. In this module manager can create a report and submit this system.

1.5Objectives

- we can easily maintain my business.
- We can see daily overview
- save time
- Better opportunity

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CHAPTER-2

REQUIREMENT ENGINEERING

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2.1 Functional Requirement

Functional requirement defines a function of a system, where a function is described as a specification of behavior. The functional requirement can be a calculation, data manipulation, business process, user interaction, or any other specific functionality which defines what function a system is likely to perform. Now, I am showing functional requirements associating with this project.

2.1.1 Login/logout

FR 1	Login/Logout
Description	Admin and manager must be log for access this system.
Stakeholders	Admin, Manager

2.1.2 Dashboard

FR 2	Dashboard
Description	User can see the system overview for this page.
Stakeholders	Manager, Admin

2.1.3 Daily Register

FR 3	Daily Register
Description	Manager can update daily sell register in this system and admin can view.
Stakeholders	Manager, Admin

2.2.4 Stock Register

FR 4	Stock Register
Description	Manager can update stock register and admin can view.
Stakeholders	Manager, Admin

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2.2.5 Documents

FR 5	Documents
Description	Manager can update or delete documents.
Stakeholders	Manager

2.2.6 Add Due

FR 6	Add Due
Description	Manager can add/update due list.
Stakeholders	Manager

2.2.7 Delete Due

FR 7	Delete Due
Description	Manager can delete due from list.
Stakeholders	Manager

2.2.8 Employee Attendance

FR 8	Employee Attendance
Description	Employee can ensure his/her attendance.
Stakeholders	Employee

2.2.9 Report

FR 9	Report
Description	Manager create a overview report and admin can view.
Stakeholders	Manager, Admin

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2.2 Non-Functional Requirement

2.2.1 Performance

NFR 1	Performance
Description	When admin search to perform a particular job then the outcomes must be appearing.
Stakeholders	Admin

2.2.2 Capacity

NFR 2	Capacity
Description	System will be able to record up to 5000 data and the information of the system will be stored in database.
Stakeholders	Admin

2.2.3 Reliability

NFR 3	Reliability
Description	System should be able to fulfil all of its functional requirements. The system update is very necessary and regularly.
Stakeholders	Admin

2.2.4 Security

NFR 4	Security
Description	All data needs to protected from outside attack. Encryption protection is one great solution. Authentication of every request should be ensured.
Stakeholders	Admin

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2.2.5 Maintainability

NFR 5	Maintainability
Description	Admin can easily maintain the whole system.
Stakeholders	Admin

2.2.6 Availability

NFR 6	Availability
Description	The system should be available.
Stakeholders	Admin

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CHAPTER-3

SYSTEM ANALYSIS, DESIGN AND SPECIFICATION

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3.1 Development Model

Since this a progressive application, so I choose Agile Model due to its agility. This model helps me to find bugs, issues and resolve them. I have developed my system with flexibility in mind, so that the system can be updated efficiently without changing big portion of my project. To ensure the efficiency of my system testing was done in every step of development. Because of Agile Model I had the opportunity to test every section of the system while is in developing stage. Also, Agile model gets us the opportunity to create a system, which can be updated easily, frequent testing for efficiency, standard quality product, and development time in short.

Figure 3.1: Agile Model

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3.2 USE CASE Diagram

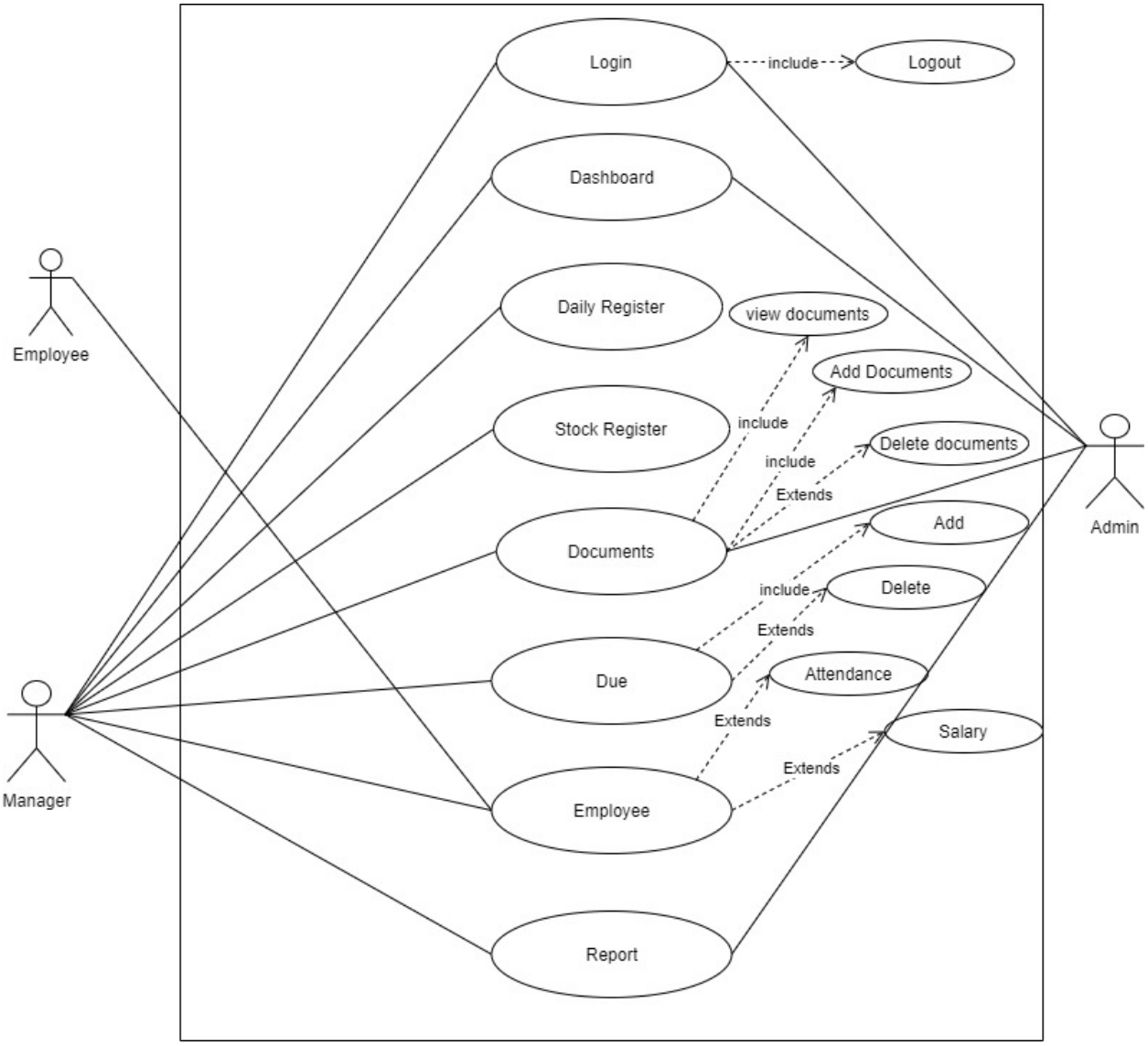

Figure 3.2: Use-Case Diagram

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USE CASE Description

3.2.1 Log In

Users should log in to the system with their email and password to access all features of this system.

<table>
<tr><td>Use case ID</td><td>UC-01</td></tr>
<tr><td>Use Case Name</td><td>Login</td></tr>
<tr><td>Goal</td><td>Login to the system</td></tr>
<tr><td>Preconditions</td><td>User must be registered this valid email and password.</td></tr>
<tr><td>Primary Actor

Secondary Actor</td><td>Admin, Manager</td></tr>
<tr><td>Trigger</td><td>Button</td></tr>
<tr><td>Description / Main Success Scenario</td><td><table><tr><td>Step</td><td>Action</td></tr><tr><td>1</td><td>To enter in to the system</td></tr><tr><td>2</td><td>To access all features available for a user</td></tr></table></td></tr>
<tr><td>Post Condition</td><td>User can Logout anytime.</td></tr>
<tr><td>Alternative Flow</td><td>N/A</td></tr>
</table>

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3.2.2 Dashboard

Use case ID	UC-02
Use Case Name	Dashboard
Goal	Access into dashboard
Preconditions	User must login this system.
Primary Actor **Secondary Actor**	Admin, Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | To enter into dashboard 2 | View dashboard
Post Condition	User can view their dashboard anytime with login.
Alternative Flow	N/A

3.2.3 Daily Register

Use case ID	UC-03
Use Case Name	Daily Register
Goal	To update daily register.
Preconditions	User must access this system first.
Primary Actor **Secondary Actor**	Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | User must access first. 2 | To update daily register. 3 | Confirm update and save it.
Post Condition	User can view daily register details.
Alternative Flow	N/A

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3.2.4 Stock Register

Use case ID	UC-04
Use Case Name	Stock Register
Goal	To update Stock register.
Preconditions	User must access this system first.
Primary Actor **Secondary Actor**	Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | User must access first. 2 | To update Stock register. 3 | Confirm update and save it.
Post Condition	User can view Stock register details.
Alternative Flow	N/A

3.2.5 Documents

Use case ID	UC-05
Use Case Name	Documents
Goal	To add/update or delete documents.
Preconditions	User must be login email and password.
Primary Actor **Secondary Actor**	Admin, Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | User must login first. 2 | To add/update or delete documents. 3 | Successfully confirm and save it.
Post Condition	User can view documents details.
Alternative Flow	N/A

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3.2.6 Add Due

Use case ID	UC-06
Use Case Name	Add Due
Goal	Add client due and details.
Preconditions	User must be login email and password.
Primary Actor **Secondary Actor**	Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | User must login first. 2 | Add client due and details. 3 | Confirm add and save it.
Post Condition	User can view their due list anytime with login.
Alternative Flow	N/A

3.2.7 Delete Due

Use case ID	UC-07
Use Case Name	Delete Due
Goal	Delete client due and details.
Preconditions	User must access this system first.
Primary Actor **Secondary Actor**	Manager
Trigger	Button
Description / Main Success Scenario	Step | Action 1 | User must login first. 2 | Delete client due and details. 3 | Confirm delete and save it.
Post Condition	User can view their due list anytime with login.
Alternative Flow	N/A

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3.2.8 Employee Attendance

Use case ID	UC-08
Use Case Name	Employee Attendance
Goal	Employee can ensure his/her attendance.
Preconditions	User must access this system first.
Primary Actor **Secondary Actor**	Employee
Trigger	Button
Description / Main Success Scenario	Step / Action 1 / User must login first. 2 / Submit attendance. 3 / Confirm submit and save it.
Post Condition	User can view their attendance list.
Alternative Flow	N/A

3.2.9 Report

Use case ID	UC-09
Use Case Name	Report
Goal	To create daily overall report.
Preconditions	User must be login email and password.
Primary Actor **Secondary Actor**	Admin, Manager
Trigger	Button
Description / Main Success Scenario	Step / Action 1 / User must login first. 2 / To create report. 3 / Confirm submit and save it.
Post Condition	User can view report anytime with login.
Alternative Flow	N/A

3.3 ACTIVITY Diagram

3.3.1 Login

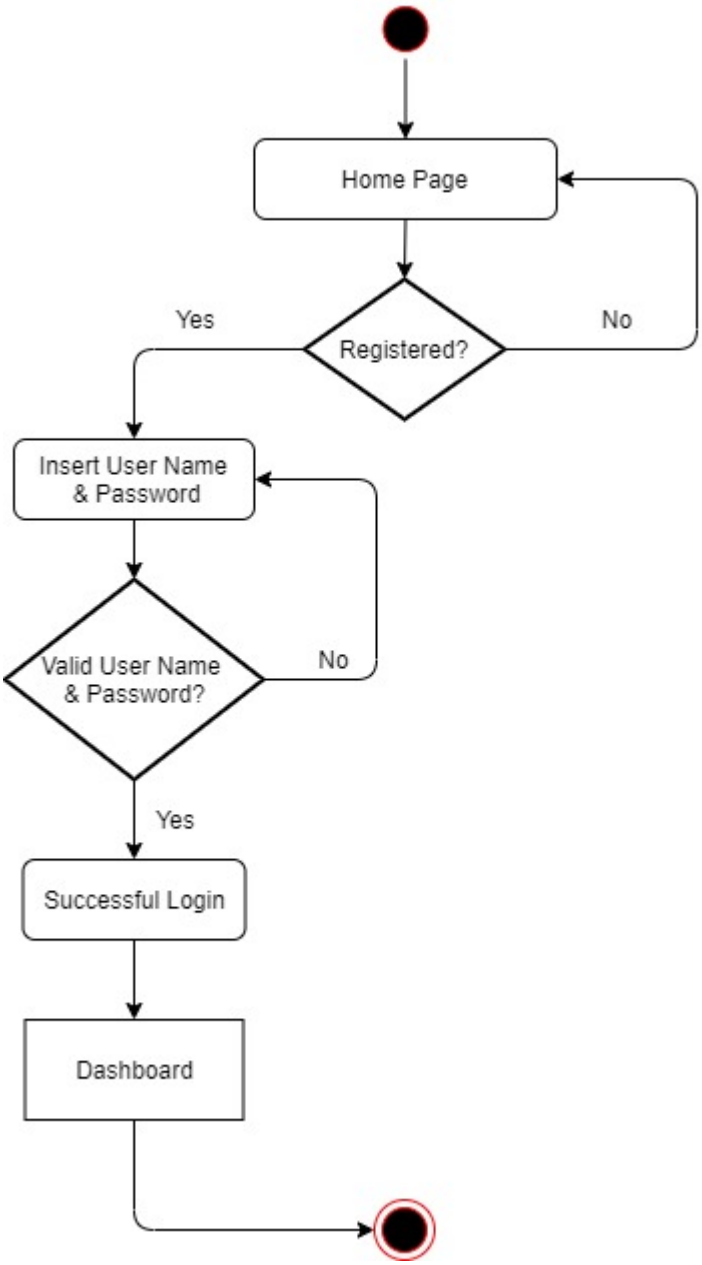

Figure 3.3.1: Activity Diagram (Login)

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3.3.2 Dashboard

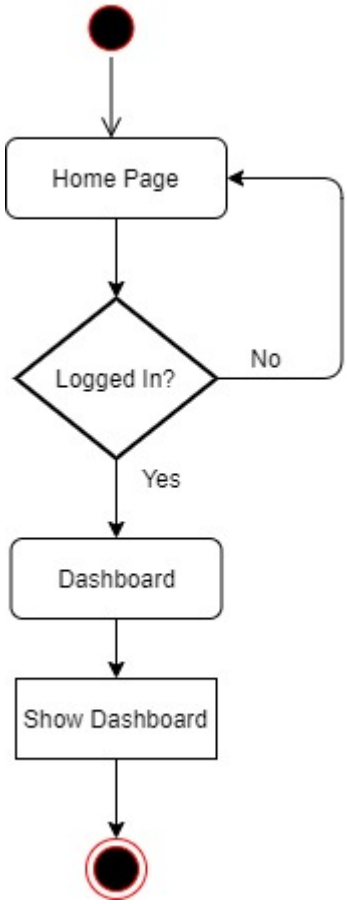

Figure 3.3.2: Activity Diagram (Dashboard)

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3.3.3 Daily Register

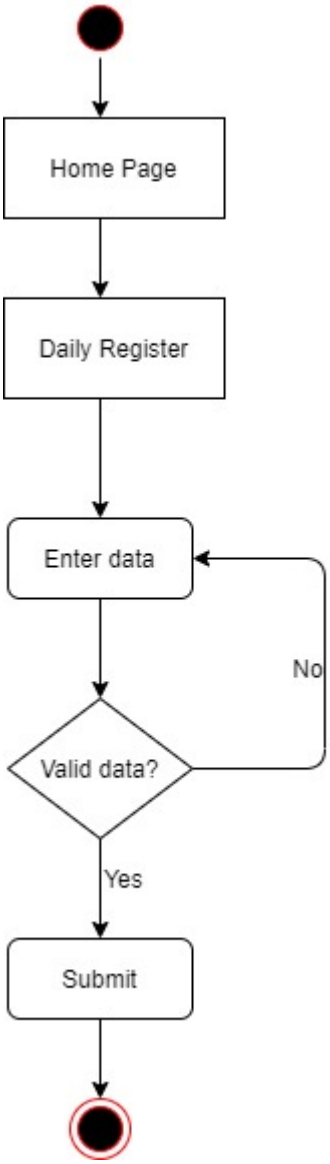

Figure 3.3.3: Activity Diagram (Daily Register)

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3.3.4 Stock Register

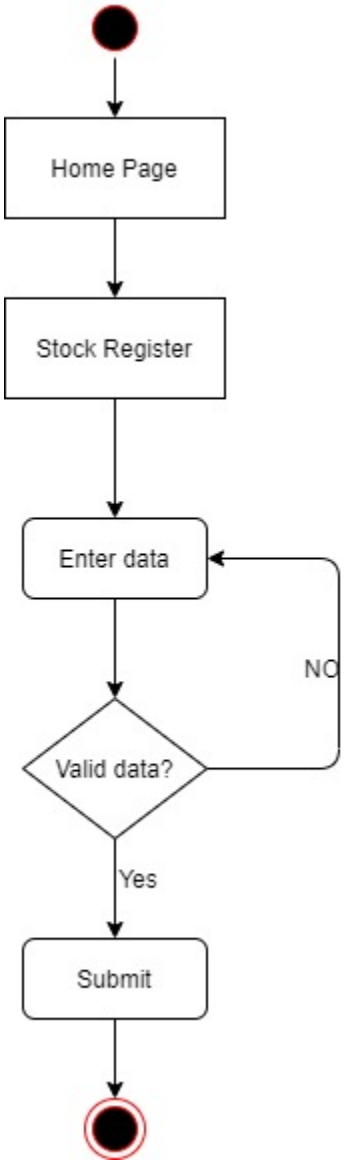

Figure 3.3.4: Activity Diagram (Stock Register)

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3.3.5 Documents

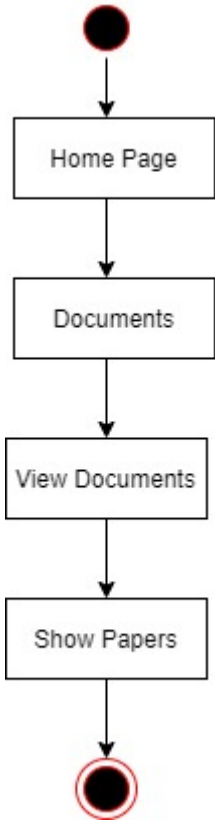

Figure 3.3.5: Activity Diagram (Documents)

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3.3.6 Add Documents

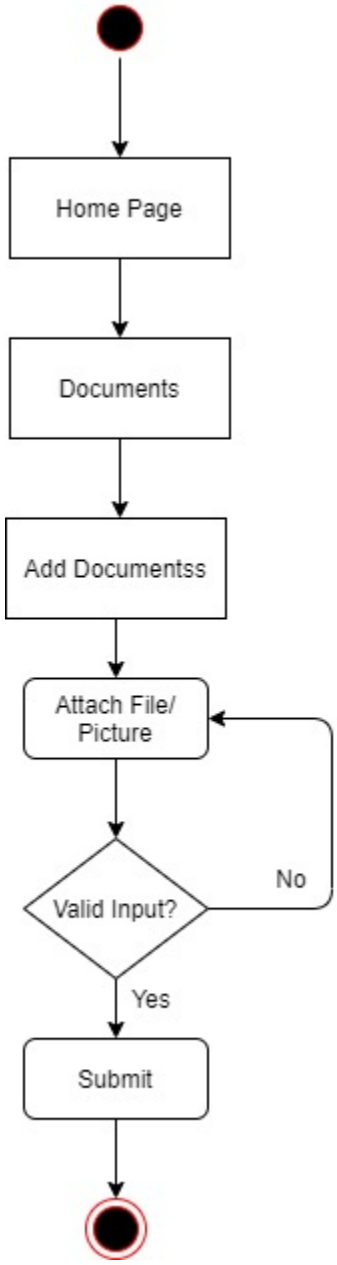

Figure 3.3.6: Activity Diagram (Add Documents)

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3.3.7 Add Due

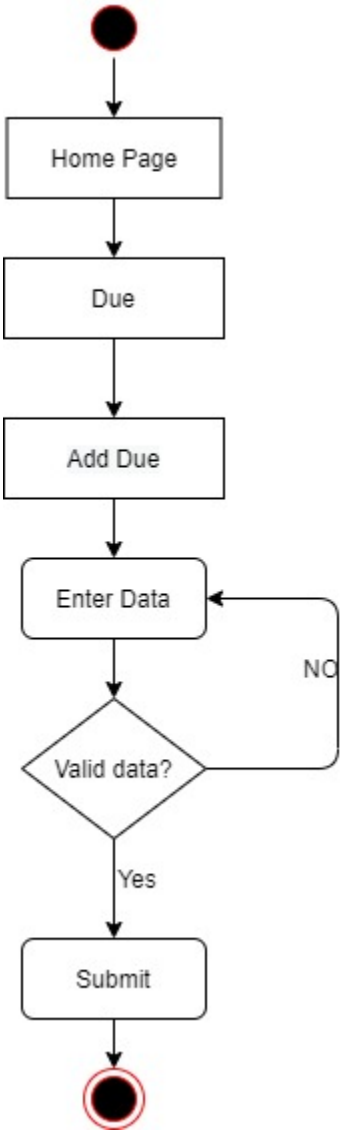

Figure 3.3.7: Activity Diagram (Add Due)

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3.3.8 Delete Due

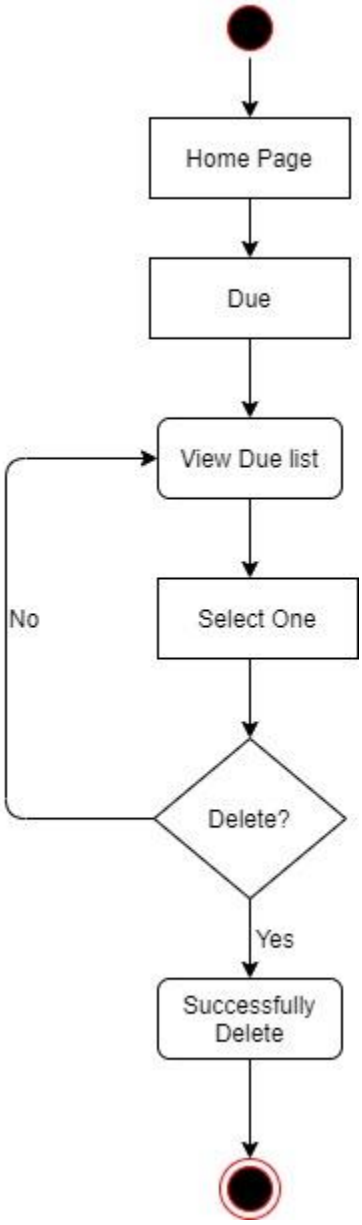

Figure 3.3.8: Activity Diagram (Delete Due)

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3.3.9 Employee Attendance

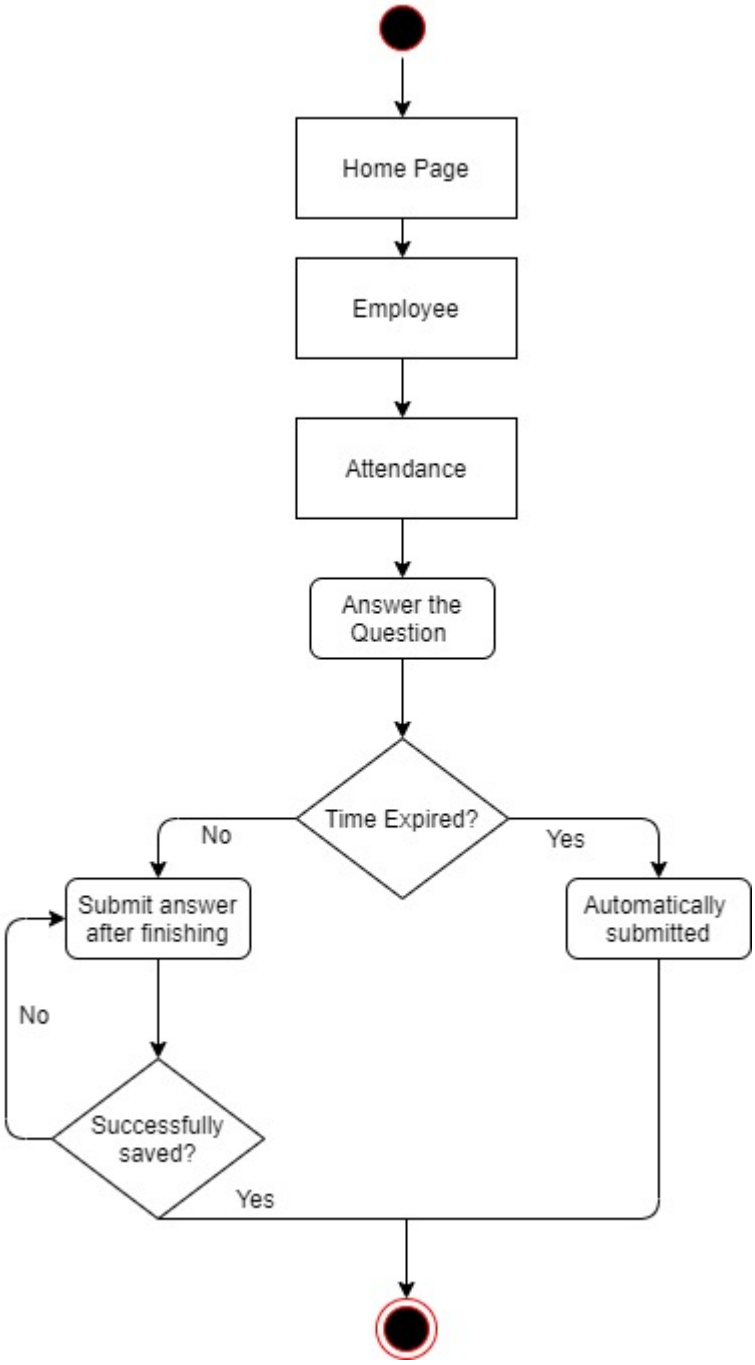

Figure 3.3.9: Activity Diagram (Employee Attendance)

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3.3.10 Log Out

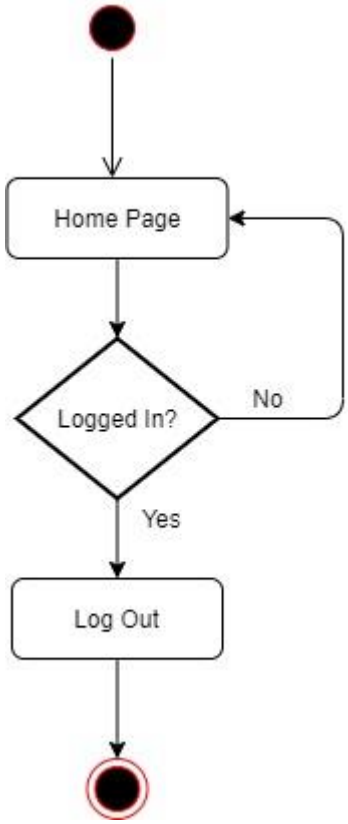

Figure 3.3.10: Activity Diagram (Log Out)

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3.4 SEQUENCE Diagram

3.4.1 Login

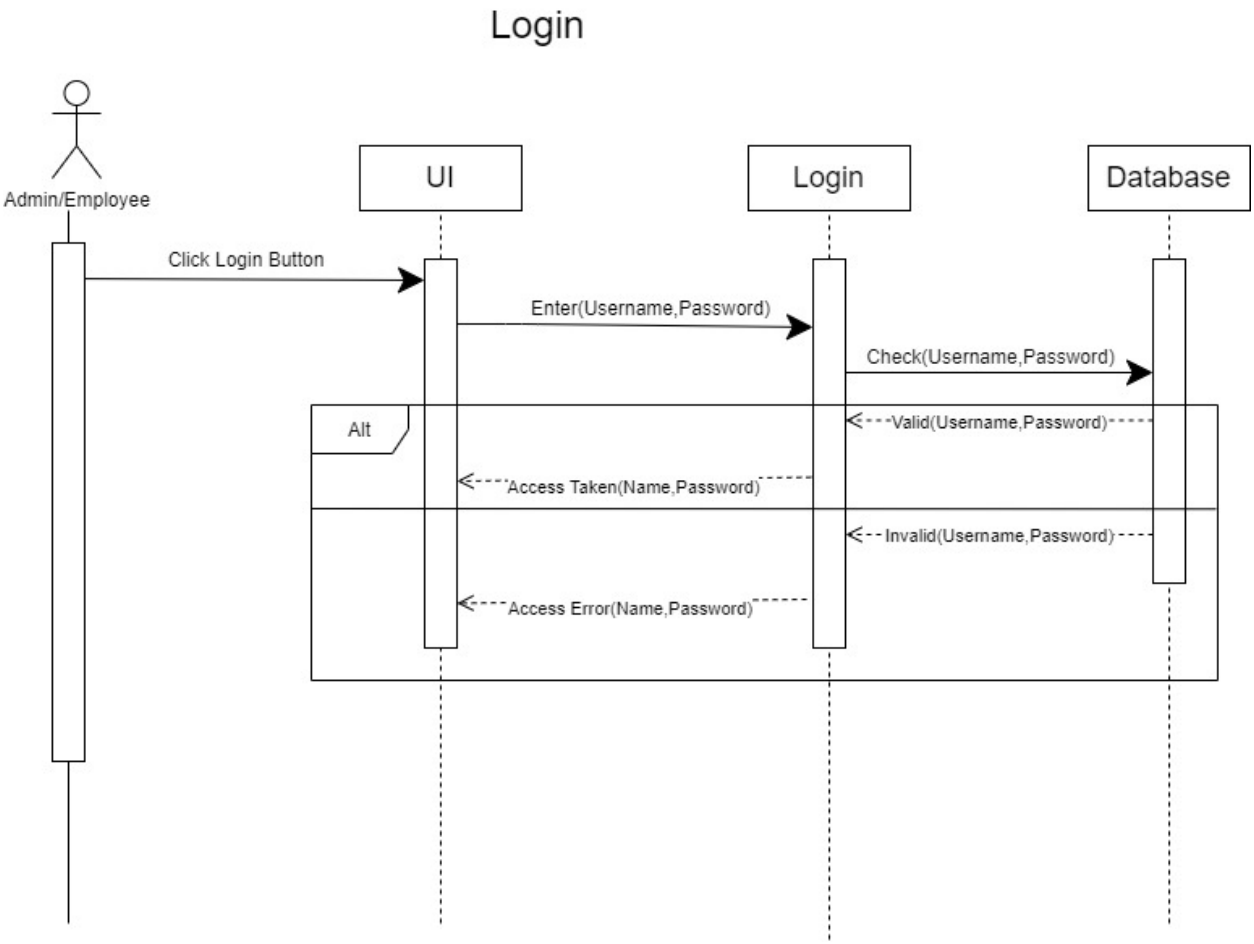

Figure 3.4.1: Sequence Diagram (Login)

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3.4.2 Daily Register

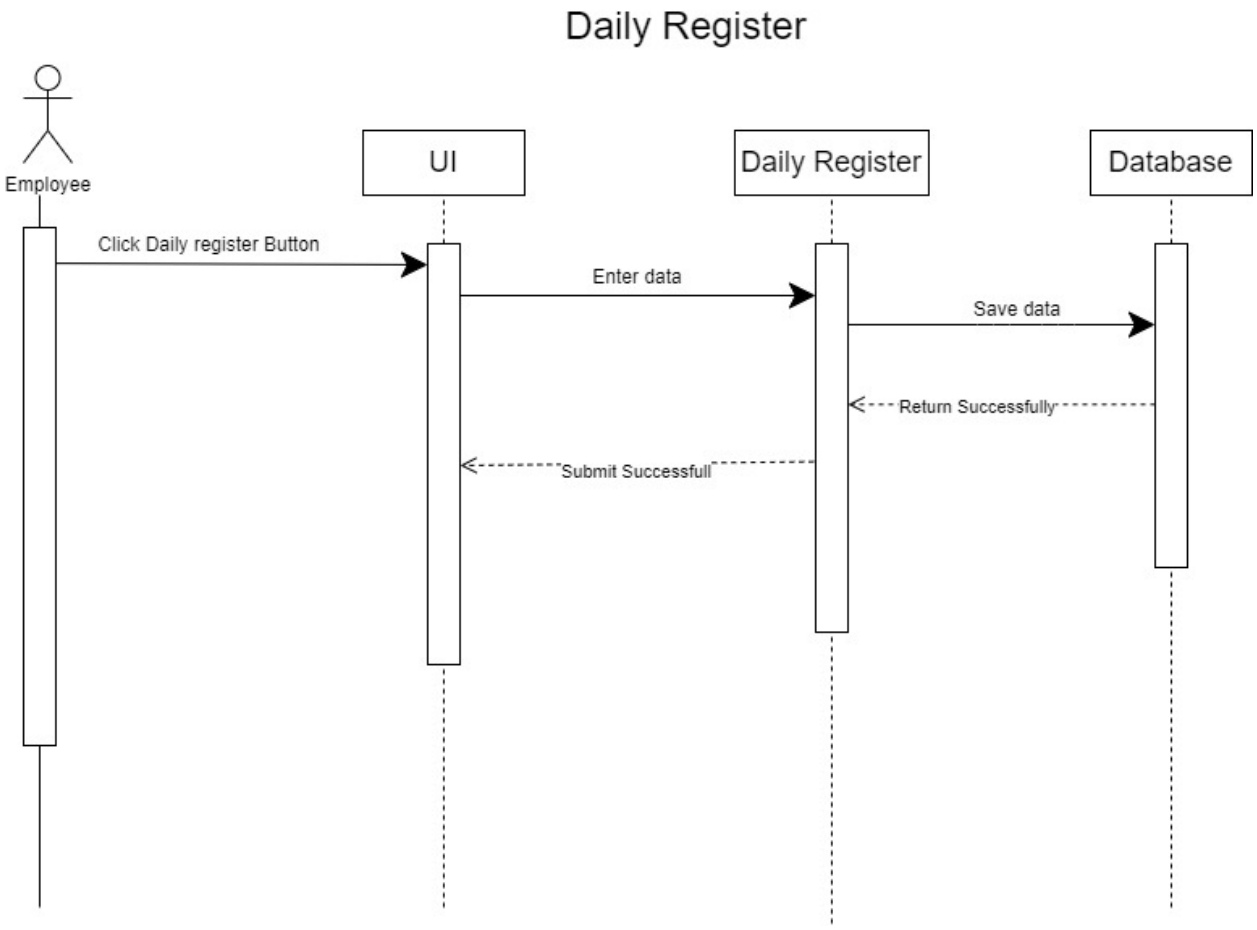

Figure 3.4.2: Sequence Diagram (Daily Register)

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3.4.3 Stock Register

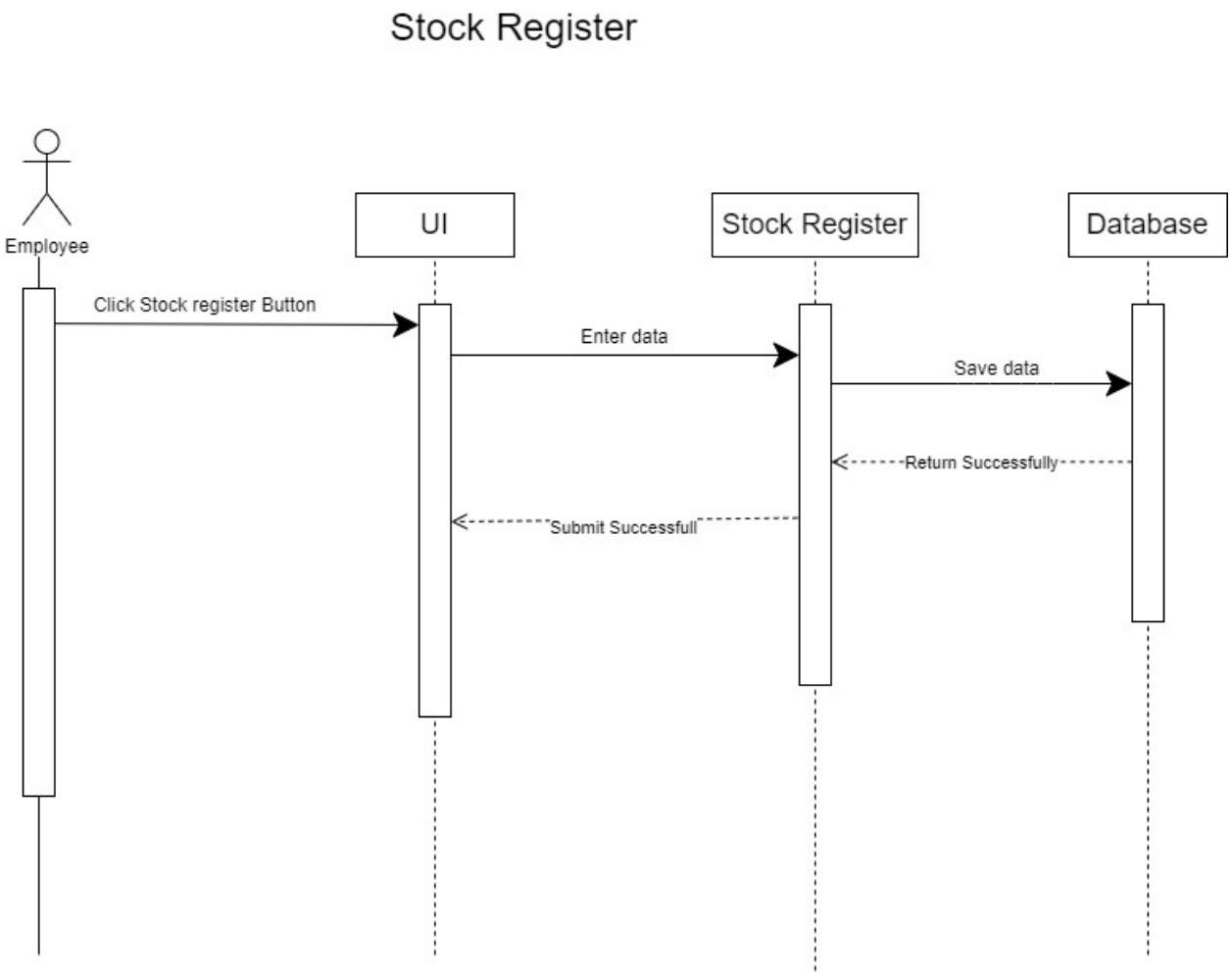

Figure 3.4.3: Sequence Diagram (Stock Register)

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3.4.4 Documents

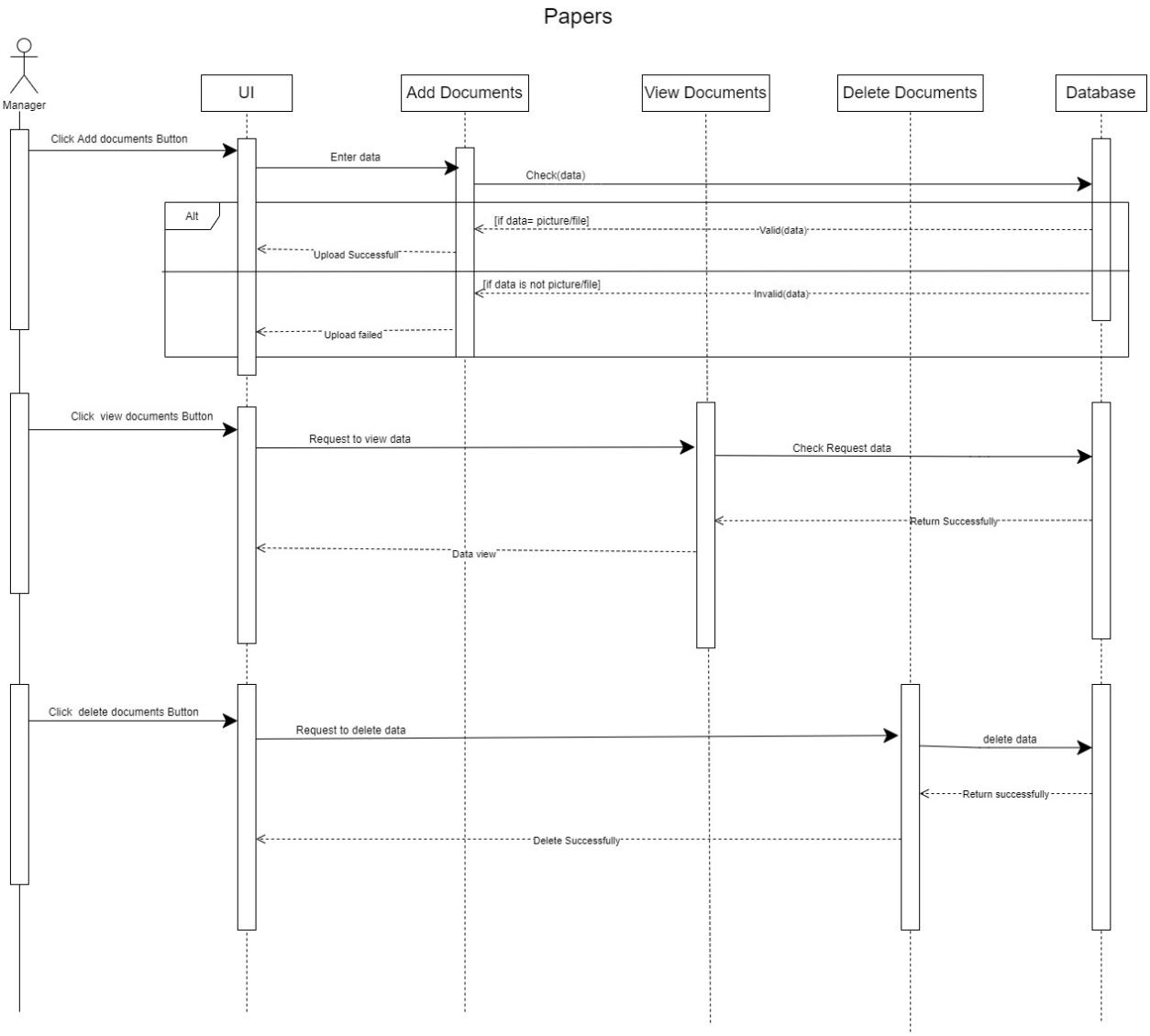

Figure 3.4.4: Sequence Diagram (Documents)

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3.4.5 Due

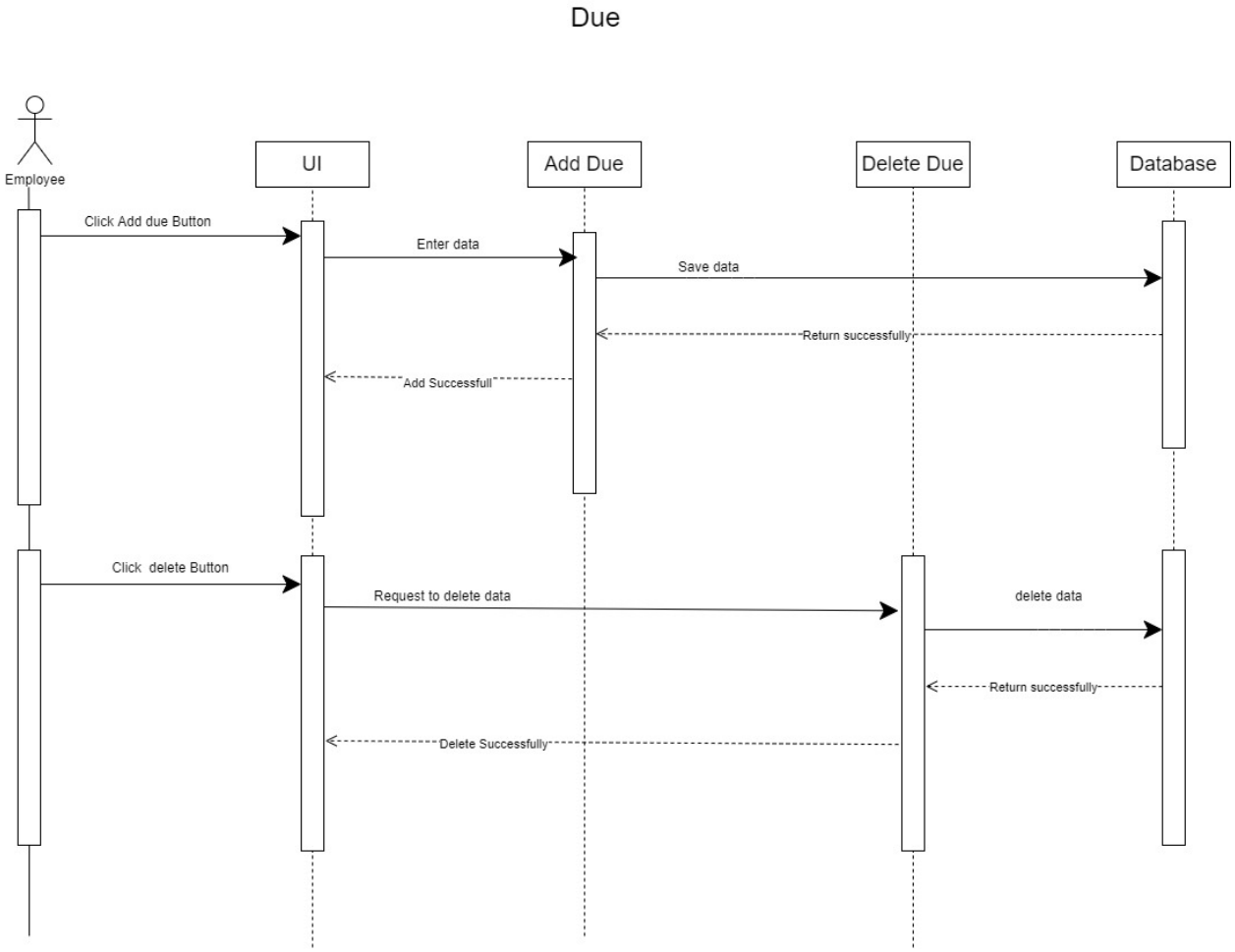

Figure 3.4.5: Sequence Diagram (Due)

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3.4.6 Attendance

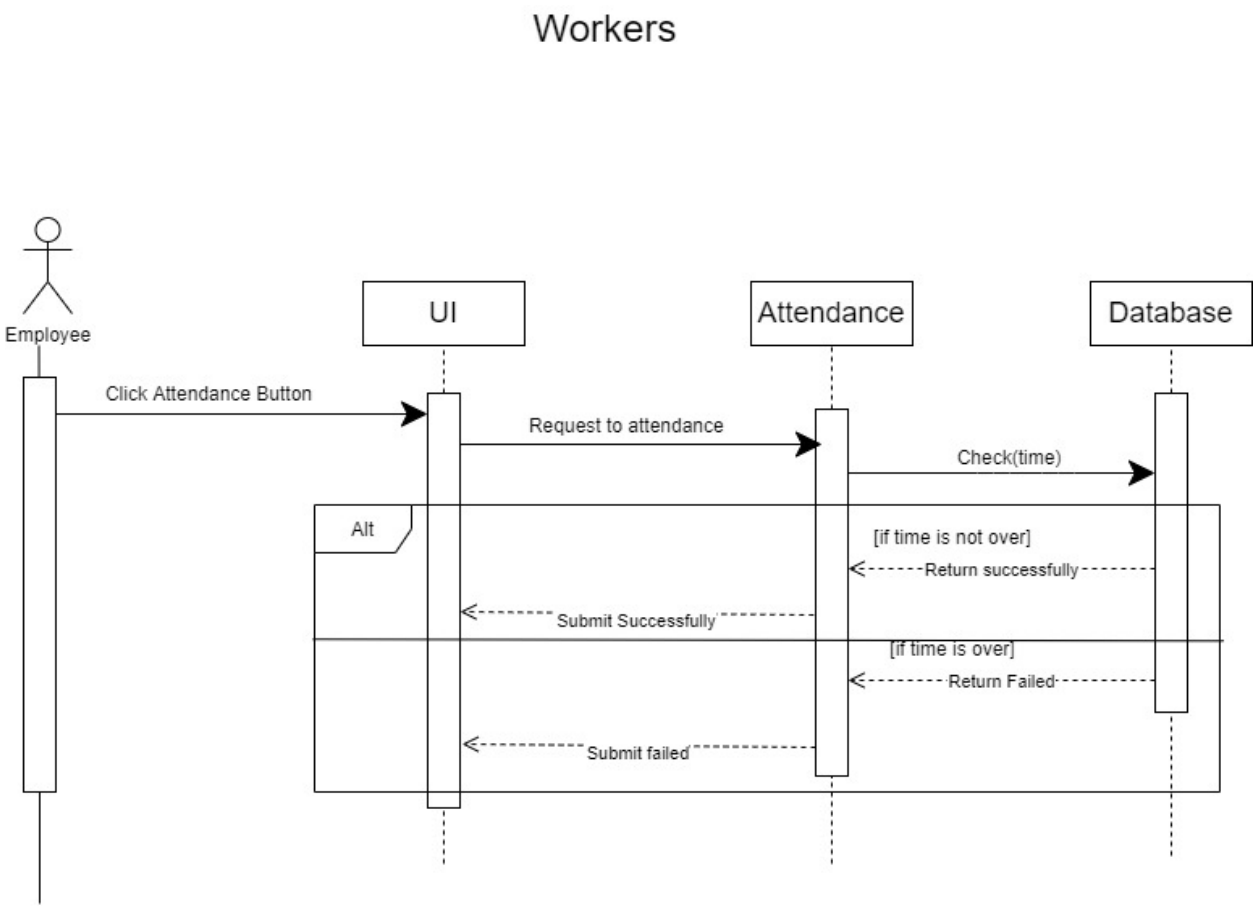

Figure 3.4.6: Sequence Diagram (Attendance)

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3.4.7 Report

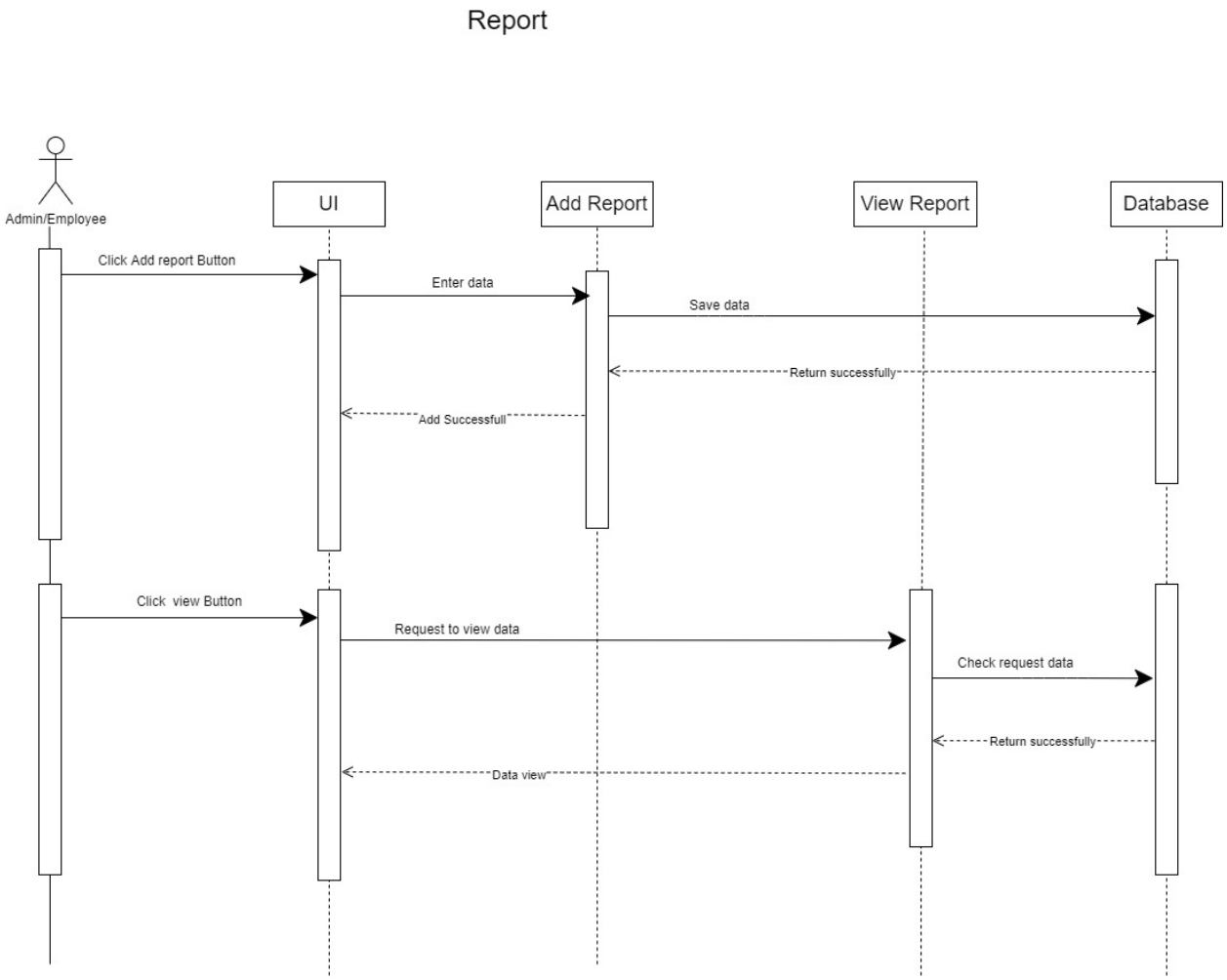

Figure 3.4.7: Sequence Diagram (Report)

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3.5 ER Diagram

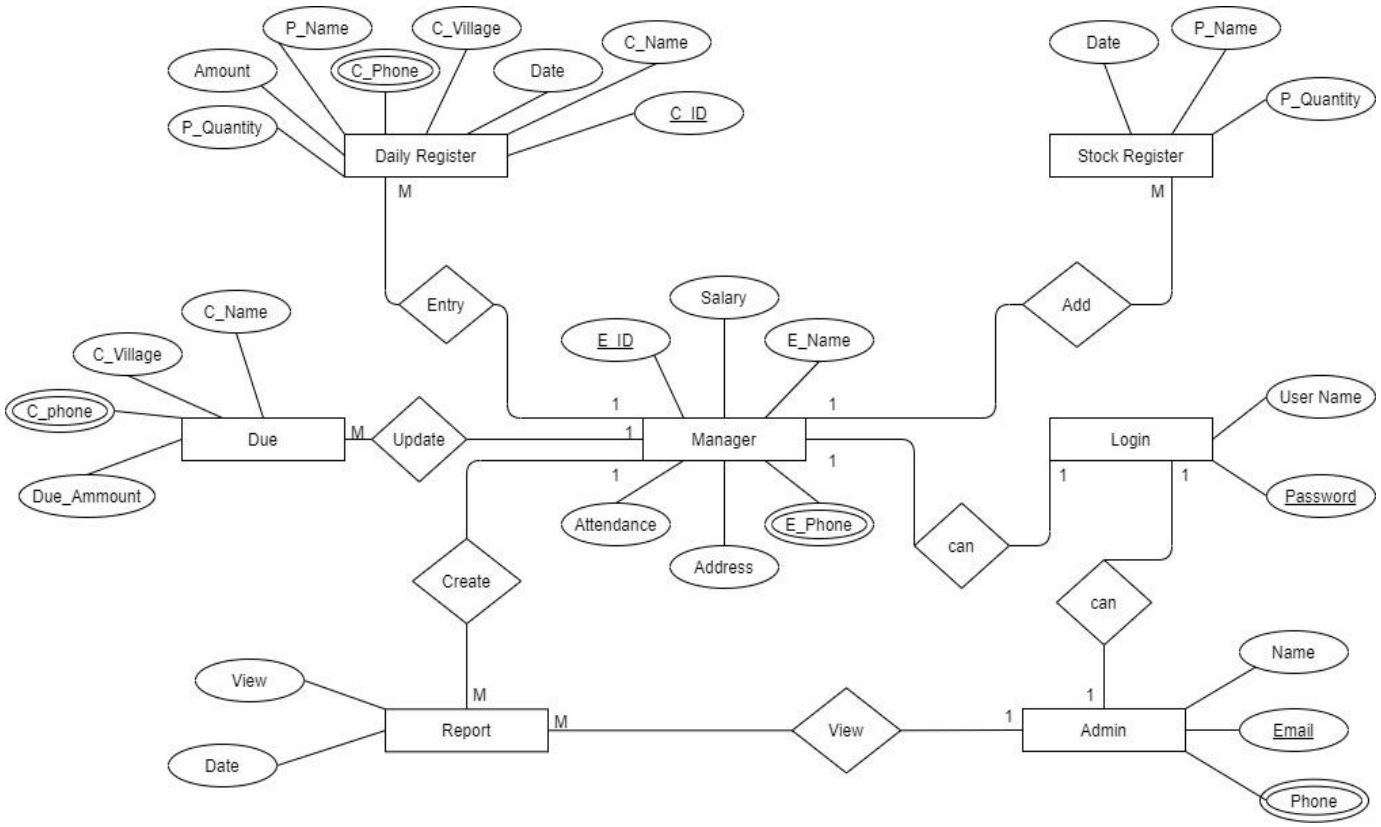

Figure 3.3.1: ER Diagram

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CHAPTER-4

SYSTEM TESTING

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4.1 Feature Testing

Web applications need to be updated from time to time. Feature testing is a way to add functionality or make changes to adapt to new technologies. After testing the features each application becomes more reliable, secure and efficient.

4.1.1 Tested Feature

Feature	Priority	Description
Login	1	The user must be authenticating by login
Dashboard	2	User can view dashboard info
Daily Register	1	User can update daily register
Stock Register	1	User can update stock register
Documents	3	User can add, delete and view documents
Due	1	User can add, delete or view due list
Employee	1	User can view attendance and employee details
Report	3	User can view report details
Logout	2	The session must be finished by log out

Table 4.1: Tested Feature

Here, 1= High Priority, 2= Medium Priority, 3= Low Priority

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4.2 Testing Strategies

4.2.1 Test Approach

To ensure the quality of my project system, I would like to use two different tests, 1. Black box testing, 2. White box testing.

They mainly focus on functional testing and structural testing.

Black box testing: Used to test the effectiveness of a black box testing system. Efficacy is tested based on inputs and outputs.

White Box Testing: White box testing is used to examine the structure, architecture, and mechanisms of a system.

4.2.2 Pass / Fail Criteria:

For testing, there are 2 types of criteria - pass and fail. Pass / fail criteria are prepared based on which output is correct and which output is incorrect.

1. System crash is considered a case of failure

2. If a criterion passes the test 100%, it will be considered as a pass criterion only.

4.2.3 Testing Schedule

Test Phase	Time
Testing plan create	1 week
Unit testing	During developing time
Component testing	During developing time
Integration testing	1 week
Testing user interface	1week
Load testing	1 week
Performance testing	1 week
Accessibility testing	1 week

Table 4.2: Testing Schedule

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4.2.4 Traceability Matrix

Project Manager			**Business analyst Lead**	
QA leader			**Target implementation date**	
TM	**Functionality Activity**	**Requirement Description**	**Testcase Reference**	**Comments**
TM-01	Functional	Login	TEST CASE 4.4.1	
TM-02	Functional	Dashboard	TEST CASE 4.4.2	
TM-03	Functional	Daily Register	TEST CASE 4.4.3	
TM-04	Functional	Stock Register	TEST CASE 4.4.4	
TM-05	Functional	Documents	TEST CASE 4.4.5	
TM-06	Functional	Due	TEST CASE 4.4.6	
TM-07	Functional	Employee	TEST CASE 4.4.7	
TM-08	Functional	Report	TEST CASE 4.4.8	
TM-09	Functional	Logout	TEST CASE 4.4.9	

Table 4.3: Traceability Matrix

4.3 Testing Environment

The test environment is created with hardware and software so that the examiner can perform what the test means. There are several test areas for the test environment that I used for testing my project.

- Test data
- Web Server
- Database Server
- Frontend running environment
- Back end running environment
- Network
- Browser

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4.4 Test Cases

4.4.1 Log in

Test Case: 01			**Test Case Name:** Log in			
System:			**Sub-System:**			
Designed by: Partha Protim Ghose			**Designed date:**			
Executed by:			**Executed date:**			
Short Description: User can access in to the system						
Pre-condition: • User must be having valid email and password						
Serial	**Email**	**Password**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1		12345	Email field is required	Fail	Pass	
2	partha	partha	Invalid email	Fail	Pass	
3			Email and Password field is required	Fail	Pass	
4	Partha49@gmail.com	12345	Successfully signed up	Pass	Pass	
Post-Condition: User can log in						

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4.4.2 Dashboard

Test Case: 02		**Test Case Name:** Dashboard			
System:		**Sub-System:**			
Designed by: Partha Protim Ghose		**Designed date:**			
Executed by:		**Executed date:**			
Short Description: User view system information					
Pre-condition: • User must have their own account and also logged in to their account					
Serial	**Action**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1	Click on Dashboard option	Open Dashboard information	Pass	Pass	
Post-Condition: User can view their Dashboard info					

4.4.3 Sell Register

Test Case: 03		**Test Case Name:** Sell Register			
System:		**Sub-System:**			
Designed by: Partha Protim Ghose		**Designed date:**			
Executed by:		**Executed date:**			
Short Description: User add, update sell register information					
Pre-condition: • User must log in to their account					
Serial	**Action**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1	Click on sell register option	Open sell register information	Pass	Pass	
Post-Condition: User can edit their sell register info					

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4.4.4 Stock Register

Test Case: 04		**Test Case Name:** Stock Register			
System:		**Sub-System:**			
Designed by: Partha Protim Ghose		**Designed date:**			
Executed by:		**Executed date:**			
Short Description: User add, update Stock register information					
Pre-condition: • User must log in to their account					
Serial	**Action**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1	Click on Stock register option	Open Stock register information	Pass	Pass	
Post-Condition: User can edit their Stock register info					

4.4.5 Client

Test Case: 05		**Test Case Name:** Client			
System:		**Sub-System:**			
Designed by: Partha Protim Ghose		**Designed date:**			
Executed by:		**Executed date:**			
Short Description: User view all Client list					
Pre-condition: • User must open and visit the site					
Serial	**Action**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1	Click on Client option	Open all Client list	Pass	Pass	
Post-Condition: User can view client list					

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4.4.6 Logout

Test Case: 06		**Test Case Name: L**ogout			
System:		**Sub-System:**			
Designed by: Partha Protim Ghose		**Designed date:**			
Executed by:		**Executed date:**			
Short Description: system will close					
Pre-condition: • User must log in to the system					
Serial	**Action**	**Expected Result**	**Pass / Fail**	**Actual Result**	**Comment**
1	Click log out button	Session ended	Pass	Pass	
Post-Condition: User can log in again					

CHAPTER-5

USER MANUAL

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5.2 Dashboard

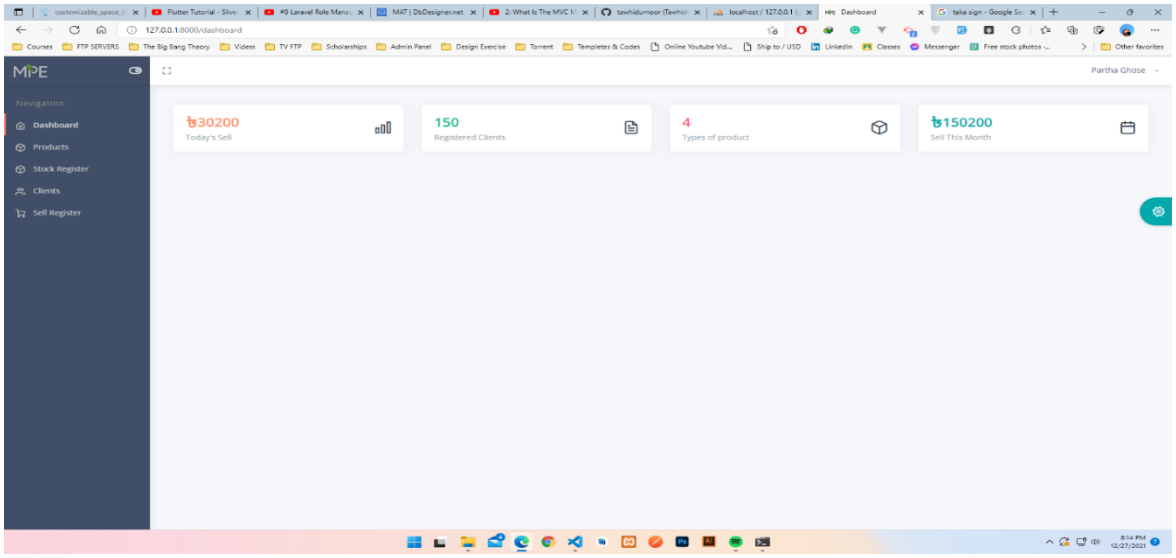

Figure 5.2: Dashboard

5.3 Sell Register

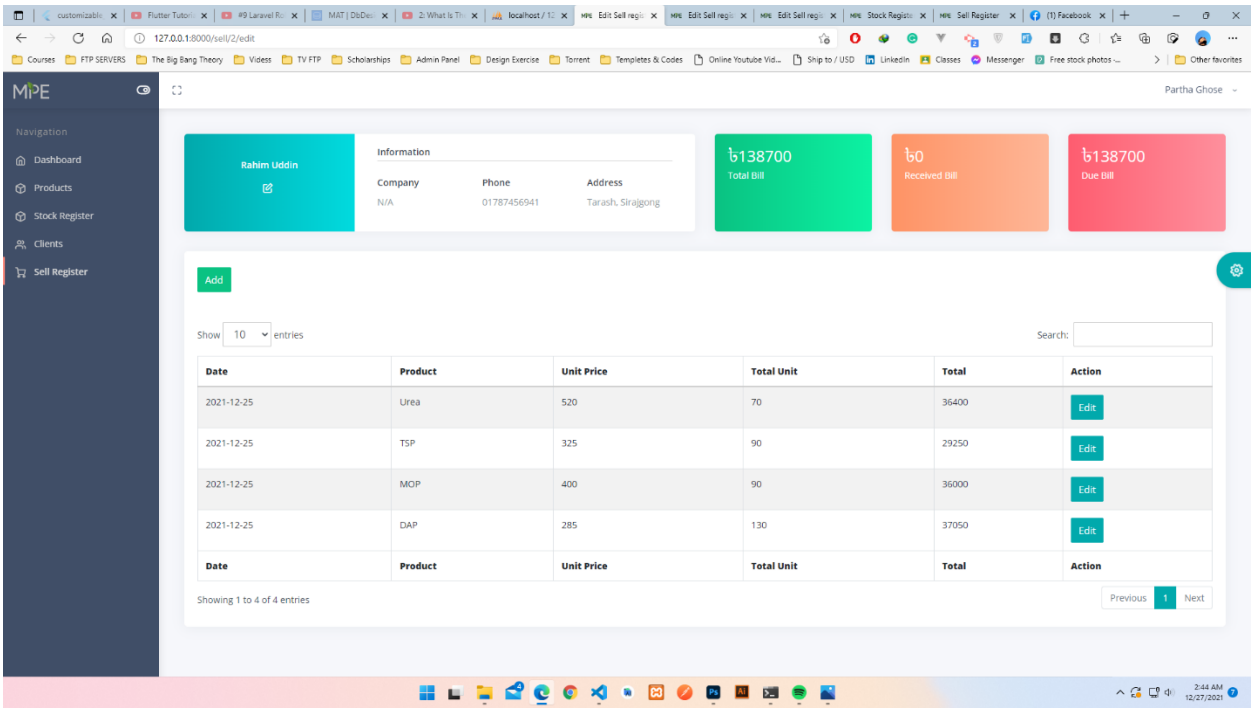

Figure 5.2: Sell Register

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5.4 Add Sell Register

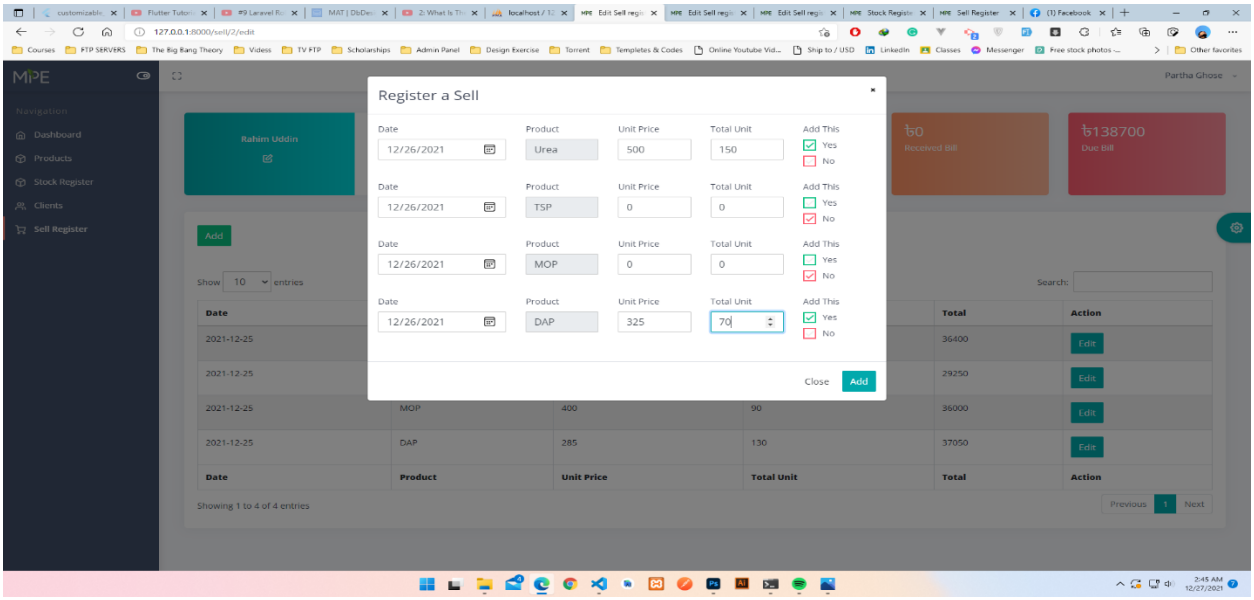

Figure 5.4: Add Sell Register

5.5 Edit Sell Register

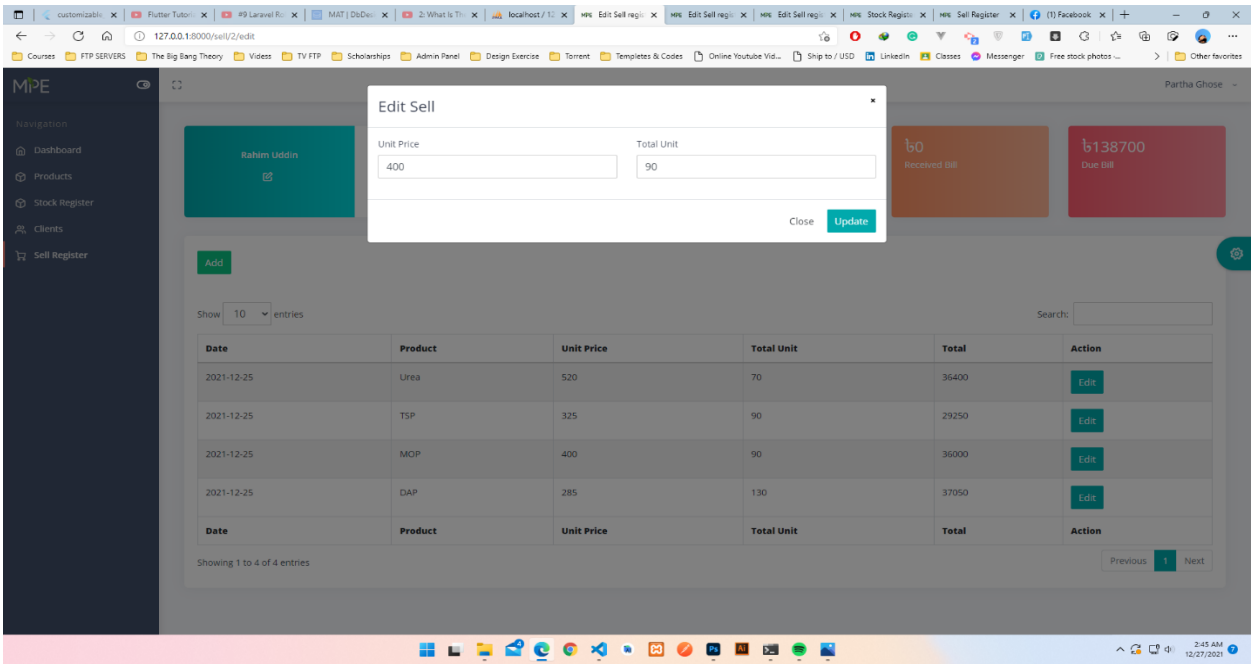

Figure 5.5: Edit Sell Register

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5.6 Stock Register

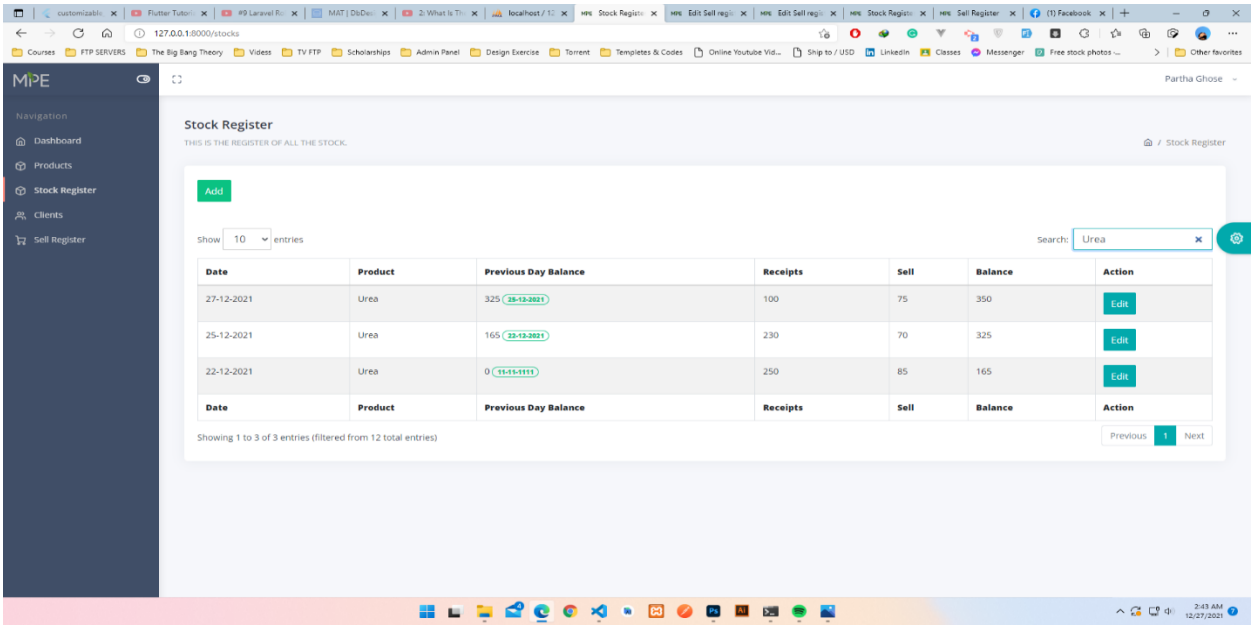

Figure 5.6: Stock Register

5.7 Add Stock Register

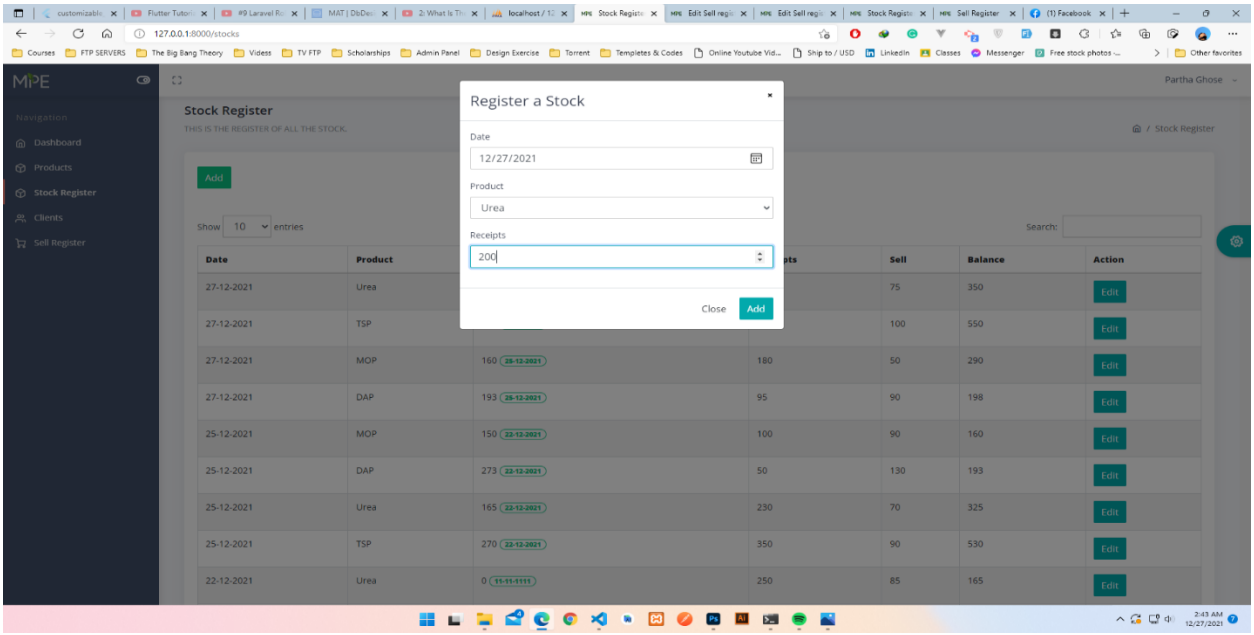

Figure 5.7: Add Stock Register

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5.8 Client info

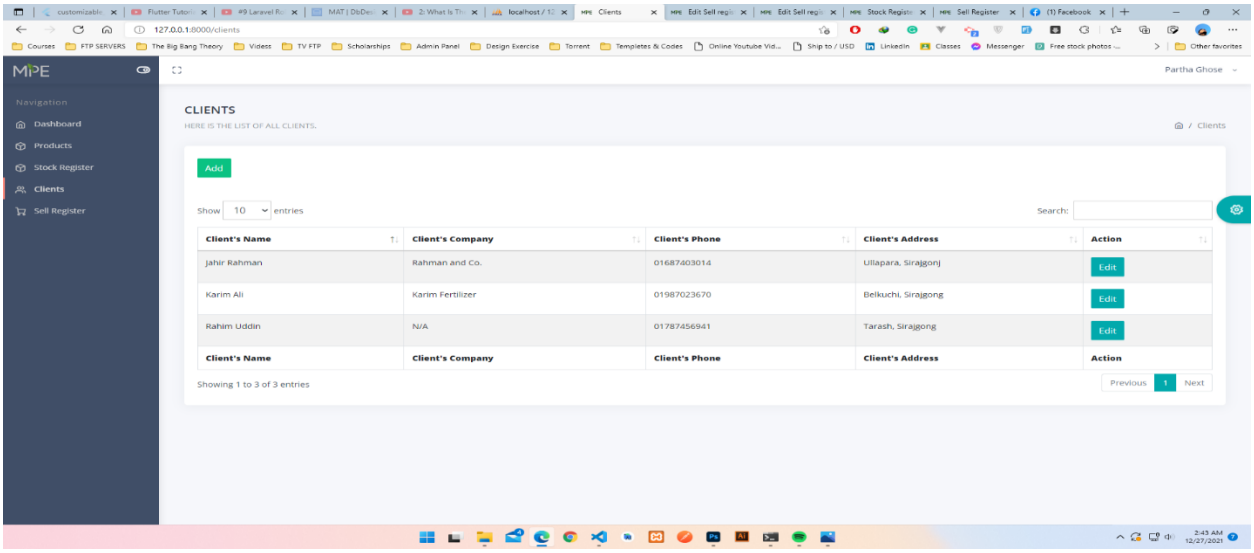

Figure 5.8: Client info

5.9 Add Client info

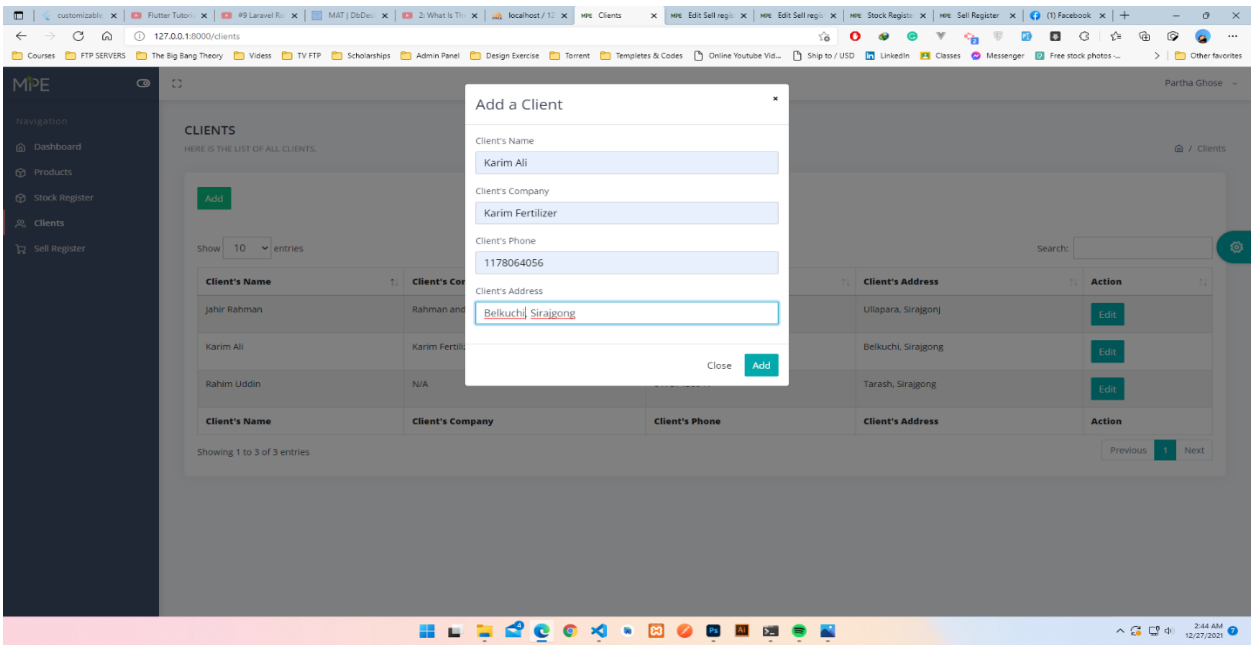

Figure 5.9: Add Client info

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5.10 Edit Client info

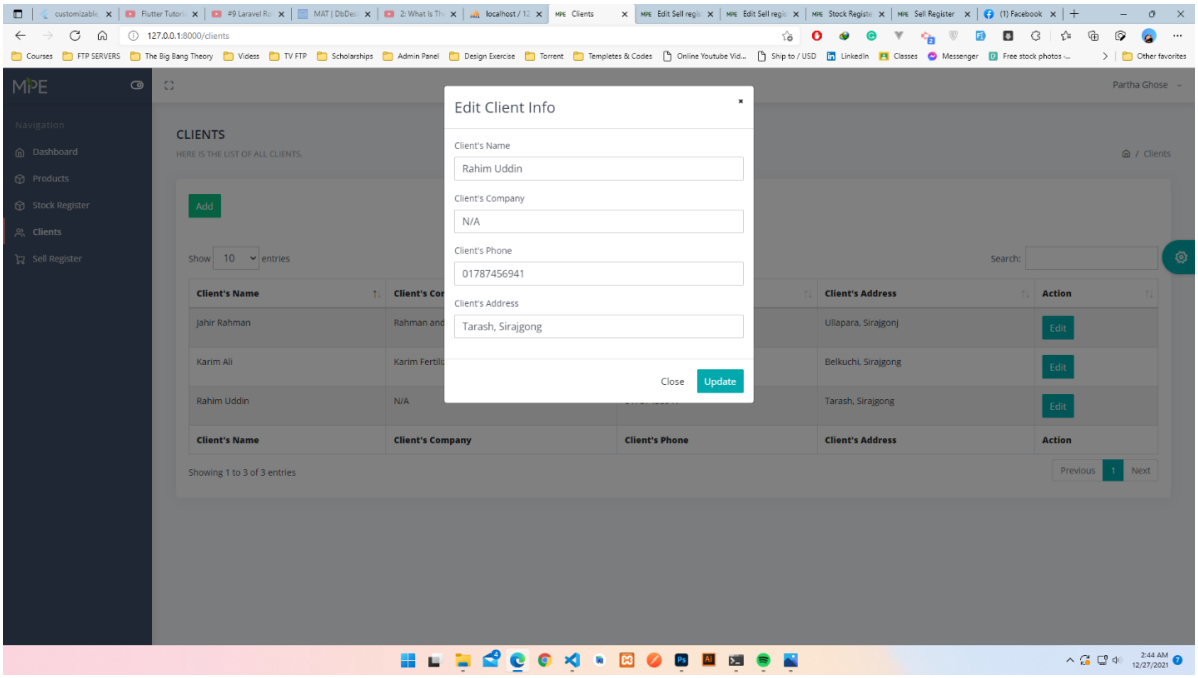

Figure 5.10: Edit Client info

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CHAPTER-6

CONCLUSION

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6.2 Limitation

- Not fully responsive
- This system is not a certified system
- Not fully secure

6.3 Obstacles and Achievement

As humans we face challenges in every step of our life but also as we are the greatest creation, we have the ability to adapt with the situation and overcome challenges. From the start the end I have faced many challenges to complete this project. This was the first time I had to work with any kind of framework. I have used Laravel.

This was the first time I used these technologies and I had to learn them from the ground. I had faced many problems developing this system using PHP language only. I had to control data flow between two frameworks that is from Laravel. But working hard for last few months I overcome almost all challenges and complete my project to present.

6.4 Future Scope

- A certified system can be developed.

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