Daffodil International University

Metro Mall Management System

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A project submitted in partial fulfillment of the requirements for the Award of degree of Bachelor of Software Engineering

DEPARTMENT OF Software ENGINEERING
Faculty of Science and Information Technology
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APPROVAL

This **Project/Thesis** titled "**Metro Mall Management System**", submitted by **Lima Khatun, ID: 151-35-993 & Atkia Labiba, ID:151-35-849** 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 B.Sc in Software Engineering and approved as to its style and contents.

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I hereby declare that,this **project** report has been done by me under the supervision ofMd. Khaled Sohel,assistant professor ,Department of Software engineering ,faculty of Science and information technology,Daffodil international university.I also declare that neither this report nor any part of this report has been submitted elsewhere for award of any degree.

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ABSTRACT

Metro Mall Management system is a system which can help the manager who manage the shop. Manager can see all activity. Manager can observe the service of billing, electricity service, water service, and Ac service. He can see which shop owner clear payment or not. In this system super admin can control everything. He can add, delete, modify and view all the things that system have.

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Chapter 1

Introduction

1.1 Project Overview

Metro Mall Management System is an Exception project which have aim to make simple to manage shop. We have a purpose which helps to make observation a shop easily. It has a prospect. Manager can see their services. In those shop owner does not clear their bill manager can see who pay the bill or not and also show all services are ok or not. As a result, manager has the knowledge about shop and take the action to good.

1.2 Project Purpose

This project is purposed to make the shop management. Manager can register in his own. He can check their services .Manager do insert delete and edit the data. It has central database. Database carry those table where has those data. Using SQL server and all the interfaces have been designed unique way. It has standard security system that deliver very well security. The internal database has been selected as SQL server.

1.2.1 Benefits

- Cost effective development.
- Unlike traditional applications, web systems are accessible anytime, anywhere and via any PC with an Internet connection.
- Developer Utilize the web based knowledge to increase the efficiency.
- By developing this project we can develop our skill in content management system driven fully dynamic application design.

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1.3 Features manager Module:

- Registration
- Log In
- View billing information
- View all data
- Add, delete

1.4 Objective of Metro Mall Management System

- To build a web app to collaborate its stakeholders to a management system.
- Make a simple way to find where the problem and what the problem is.
- To know other relevant management information about shop.
- To know who pays the bill and who is not.
- To know who pays the rent and who is not.

1.5 Problem in Existing System

This system is a Management System. It provide a better management technique. If anyone use this system they can easily handle their Mall Management. Without using this application Manager will face a lots of problem such as:

The managers take a long time to see who their bills are paying. She could not easily include the information in the list. Since Manager could see all the data, no one could rig the bill.

Without this system, shoppers neglected the bills, if a shop line was cut, then another

Shop would have been cut.

Risk of mismanagement:

- No proper coordination between different Applications and Users
- No communication between stakeholders.
- No liable entity.

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Advantages:

- User friendliness is provided in the application with various controls.
- The system makes the overall project management much easier and flexible.
- There is no risk of data mismanagement at any level while the project development is under process

1.6 Schedule

Table 1.6: Schedule

	9days	17 days	20days	35days	9days	13days
Proposal						
SRS						
Designing						
coding						
Testing						
Finalization						

1.7 Software Deliverable

The main deliverables of this project is the complete system and the system document that will include:

• Software requirements and specification (document).

• Software design document.

1.8 Scope

- It can be used by gather information and save time, it easier their work for management.
- If one wants only view her information in database, manager will be shown it.
- Very easily update any information.

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Chapter 2

Feasibility Study

2.1 Introduction

There are destiny in the feasibility study section of the initiatory investigation:

• Technical Feasibility

• Operational Feasibility

• Economic Feasibility

2.2 Technical Feasibility

Metro Management System will provide control over the mall management activities to the manager and it will give quick service to a manager in case of taking rapid responses. A realisation of all data about the shop Management process will be converged in a website and they will provide advantages which is our main ambition. Metro management system will process and store their data in a smart way which is a very important part of the system. This software is helpful for save, delete, update data. It will try to give a secure, fast operational, risk managing, user friendly system which will be a best option to user.

2.3 Operational Feasibility

Metro management system operates by the large number of shop. There is so many stakeholders. Manual system is very slow, manager does not know when shop owners pay bill or not where the services are ok or not.

Therefore a new automated system is essential for the management to operate the market smoothly and bring more benefit for shop owners although a new system would require new operational activities.

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2.4 Economic Feasibility

Metro management system will minimize the number of working time, budget money, problems in data processing, processing time. It will provide good process speed, user gratification, service validity level. This project design based on all operational parameters such as reliability, maintainability, supportability, usability, sustainability, affordability. At this time. Our help can supply the service to the maximum number of manager.So a new automated system is essential for managing, the market is smoothlyhandled and brings more convenience to shop owners, though it is costly

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Chapter 3

Software Requirement Analysis

3.1 Introduction

For all project it need proper requirement specification. If a requirement is not good then this project can be ruin. For a good project good requirement essential. There are some requirement that use for this application. It need functional and non-functional requirements. Because all this requirement depends with this system.

3.2 Functional Requirements

- Manager can registration, login
- Manger can make a shop profile.
- Manager can view the payment list.
- Manager can save data.
- Manager can delete data.
- Manager check the billing information.

3.3 Non-functional Requirements

Security: Personal details and manager, login id & password, must be remain confidential.

Availability: In a day, the website is available for 24 hours. It is always available for manager.

Usability: It has the best graphical user interface. It is user friendly. So manager feel prefer to use.

Efficiency: This site is efficient for all user. Because it is simple to use and easy to understand. It has simple way of work that user want to do. It has object oriented concept so that this give better result for user.

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3.4 Methodology

To do this project we follow waterfall model. Because, for this project requirement can be collected once and second time those requirements was not exchange.

3.5 Software Requirement Analysis

Software requirement analysis is significant part of our project. If requirement of project is ok then an application can be done easily. Our objectives for software requirement is:

3.5.1 Objective/Goals

• Manager can handle the system

•Manager can view their billing

• Manager can know which problem and where

• Manager can know their service.

3.6 Software Requirement Specification

Software Requirement Specification is a description of whole software system requirements. Software Requirement Specification describes the attitude of software from point of view. The determine requirements are shown in

Following table founded on module. The functional requirements and non-functional requirements are given bellow:

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3.7 Functional and non-Functional Requirement

Table 3.7: Functional and non-Functional Requirement

SRS Id	Function	Description	SRS type	Priority
SRS-01	Management system	It is like as management system	FR	High
Srs-02	Manager	Must register /log in to use this system	FR	High
Srs-03		Manager can see who give bill or not give	FR	High
SRS-04		Manager can update save and delete data	FR	High
SRS-05		Shop owner can view their payment list.	FR	High
SRS-06		Manager can monitor their service like as water , electricity ,Ac services	FR	High
SRS-07	Security	No one can get access without validity	NFR	High
SRS-08	availability	In a day this site is available for 24 hours	NFR	High
SRS-09	Usability	This site has better graphical user interface .It is very easy to user.	NFR	Moderate
SRS-10	Efficiency	This site is more efficient for user .This website give good performance.	NFR	Moderate

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Chapter 4

System Analysis

4.1 Use Case Diagram (Manager)

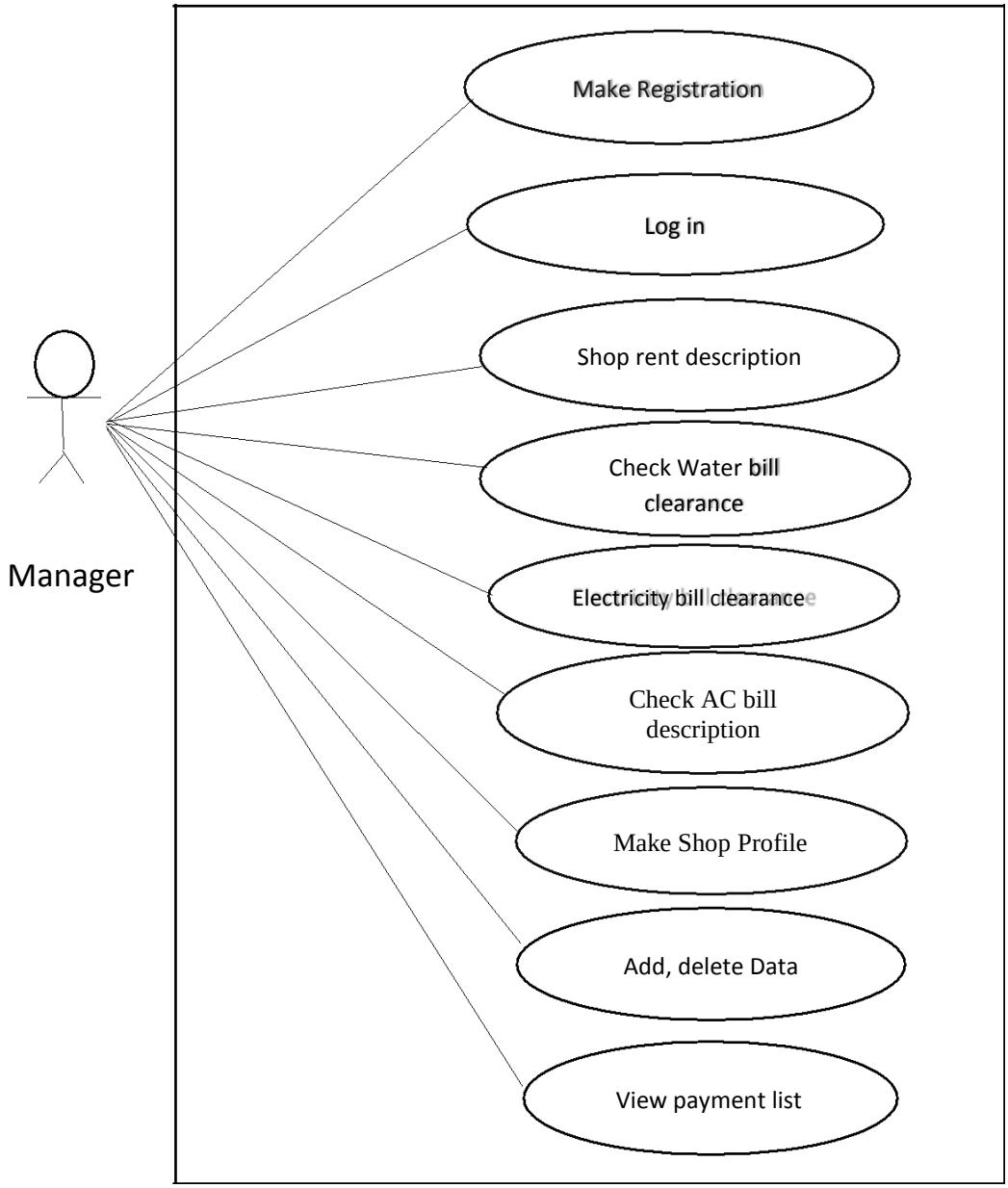

Figure 4.1: Use case diagram

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4.2 Use Case Description (for each use case)

Registration

Registration is the first act in this application for using. Firstly user can register for protecting unauthorised access. If manage registered before, he need not again register for log in.

Login

Login is the second step for the user. If user registered before he can login successfully but not registered user don not log in successfully.

Shop rent clearance

Manager can take the payment for shop rent and enter the data in the field and save it.

Water bill

Manager can manage the billing part. If someone pay the water bill manager can enter the data and save the data and if someone don not pay the bill manager can see it. And manager can delete data.

Electricity bill

If someone pay the electricity bill manager can go to the electricity billing page and enter the data and save it in the database.

Ac bill

This is the same act for the manager to get the ac payment from the shop user and save it.

View payment list

This application has a payment list that the manager can view easily who did or not pay the bill for water, ac, electricity and the rent of shop.

Create shop profile

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If any shop newly rent the new owner manager can make a profile for this. This profile carry the information of shop id, name, owner name, contact number et

Data save

Manager can do this term or work that is the saving data. It is very important task for manager manage the mall

4.3 Activity diagram

4.3.1 Activity diagram for Registration

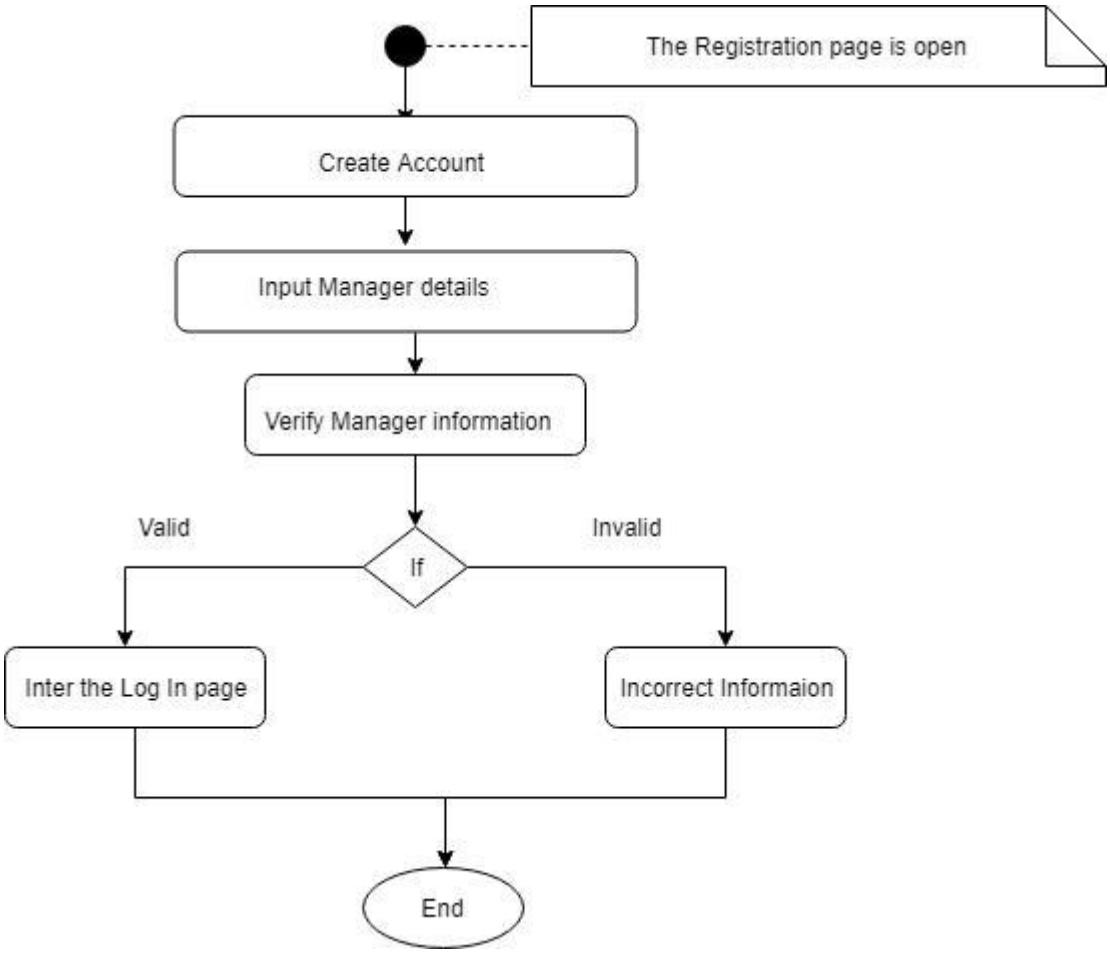

Figure 4.3.1: Activity Diagram of Registration

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4.3.2 Activity diagram for log in

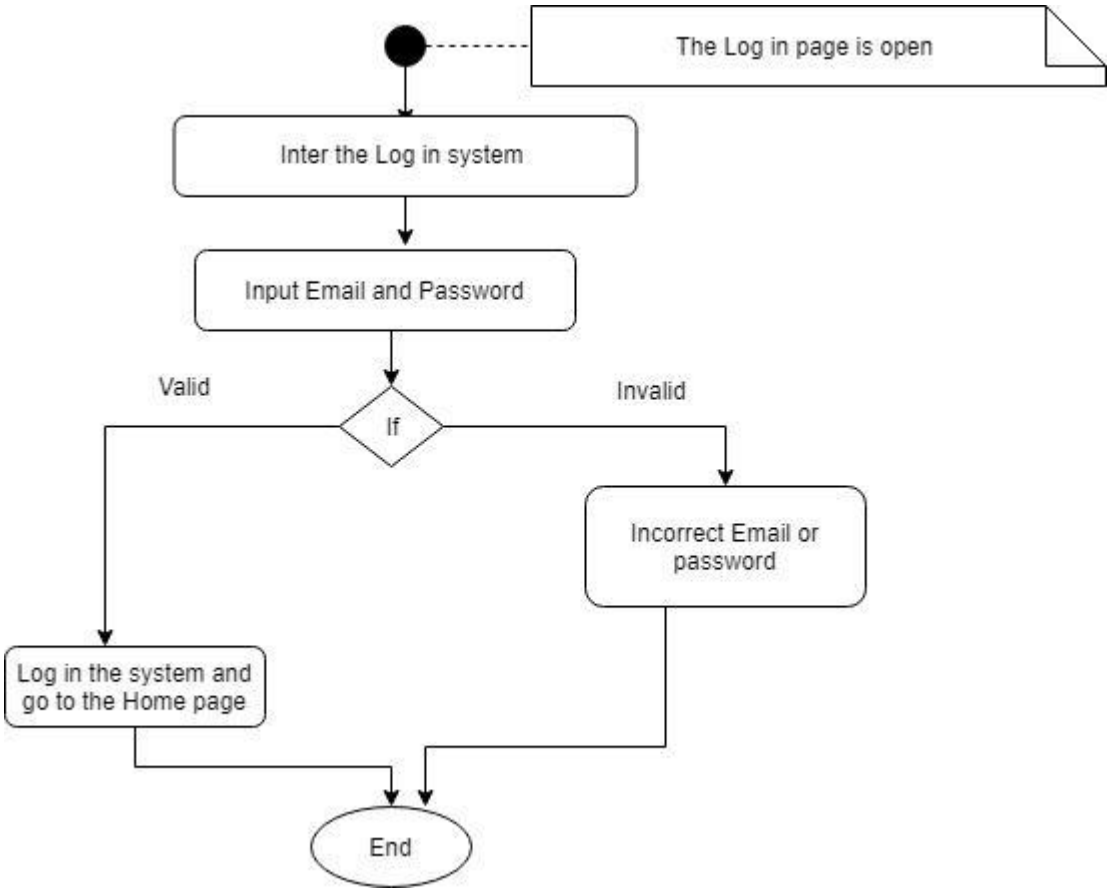

Figure 4.3.2: Activity Diagram of Log In

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4.3.3 Activity diagram for shop owner profile

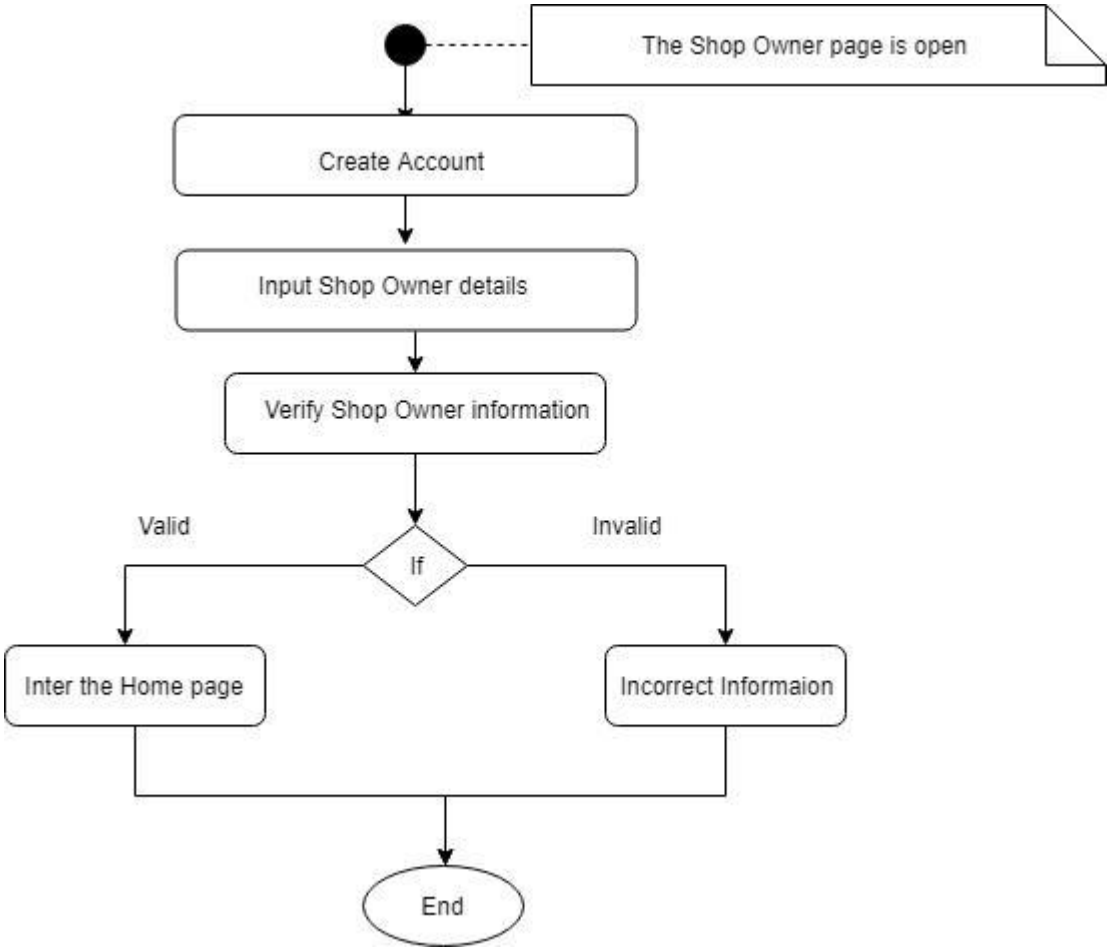

Figure 4.3.3: Activity Diagram of Shop Owner Profile

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4.3.4 Activity diagram for water billing

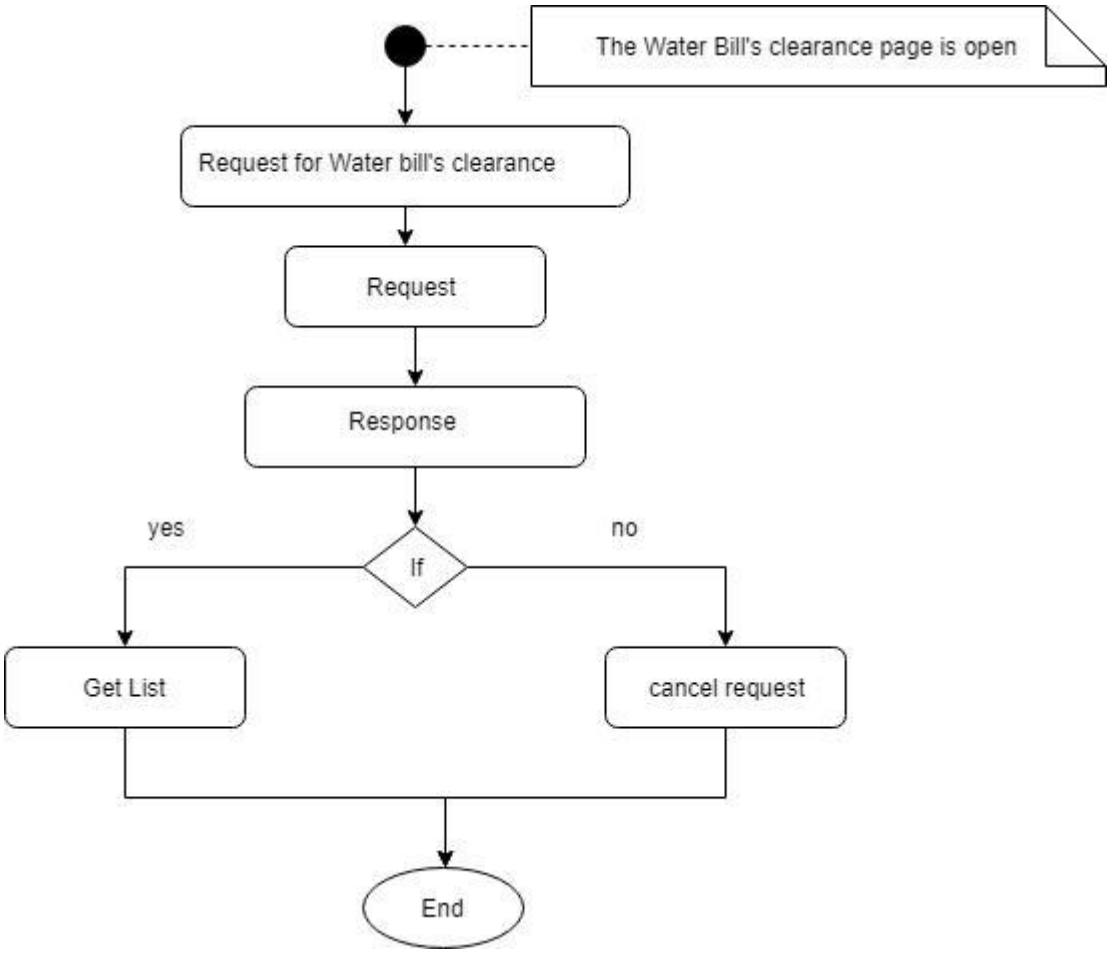

Figure 4.3.4: Activity Diagram of Water Bill's Clearance

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4.3.5 Activity diagram for electricity billing

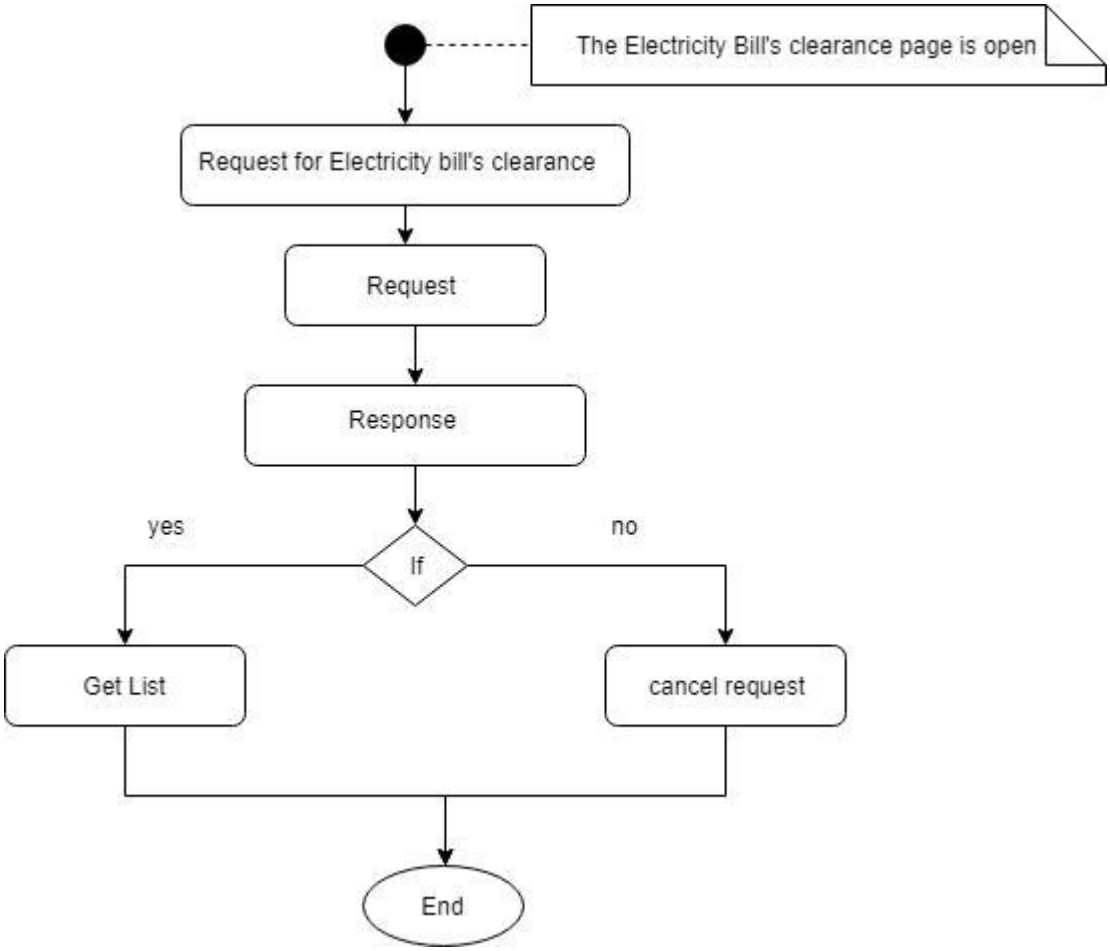

Figure 4.3.5: Activity Diagram of Electricity Bill's Clearance

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4.3.6 Activity diagram for ac billing

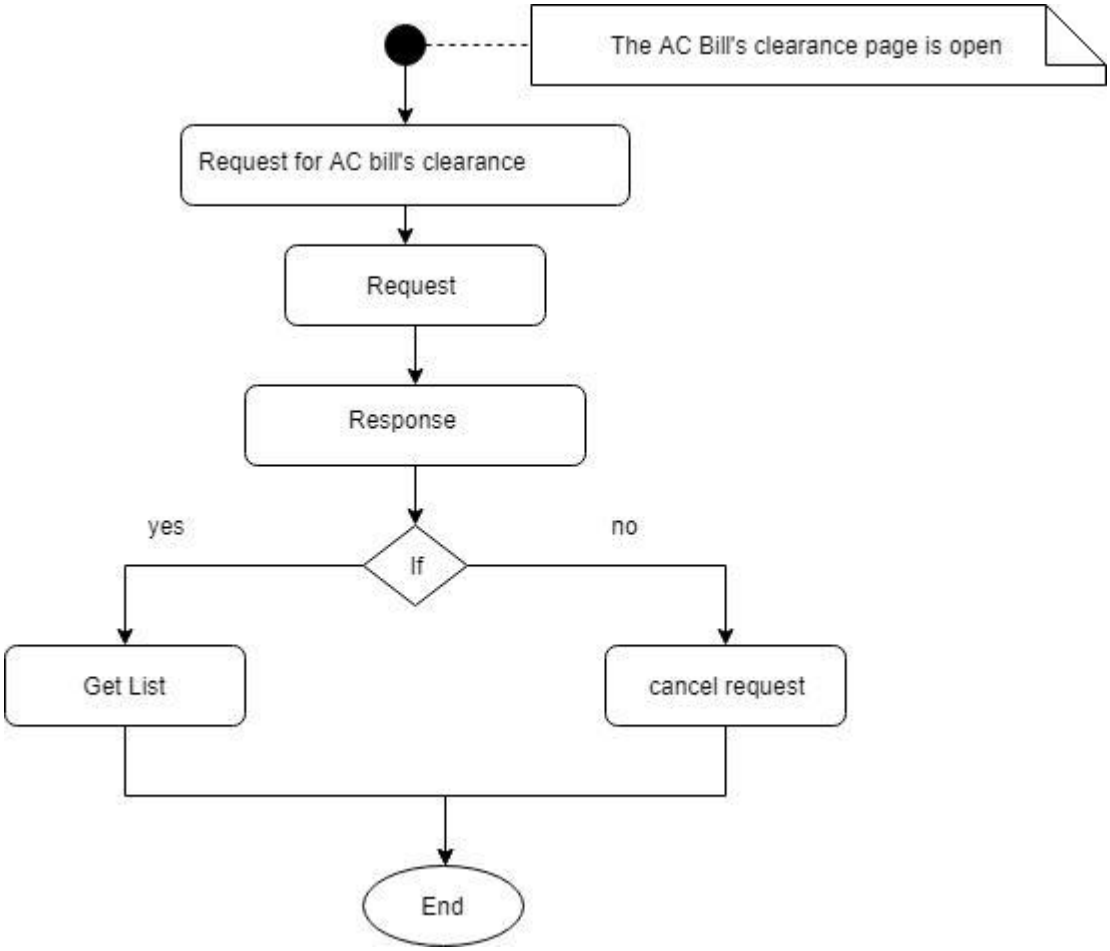

Figure 4.3.6: Activity Diagram of AC Bill's Clearance

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4.3.7 Activity diagram for view payment list

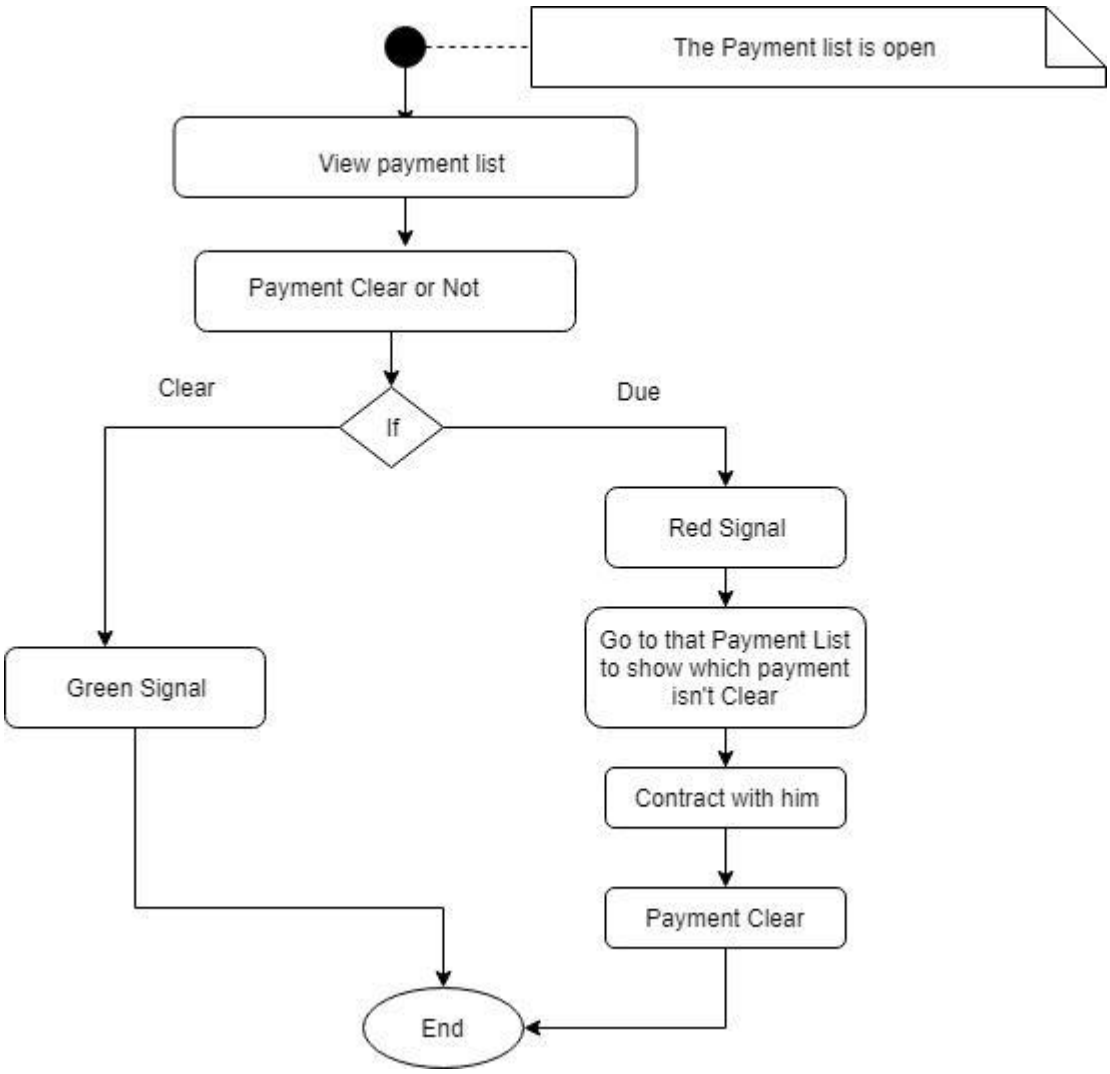

Figure 4.3.7: Activity Diagram of Payment List

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Chapter 5

System Design Specification

5 .1 Sequence Diagram

5.1.1 Sequence Diagram for Registration:

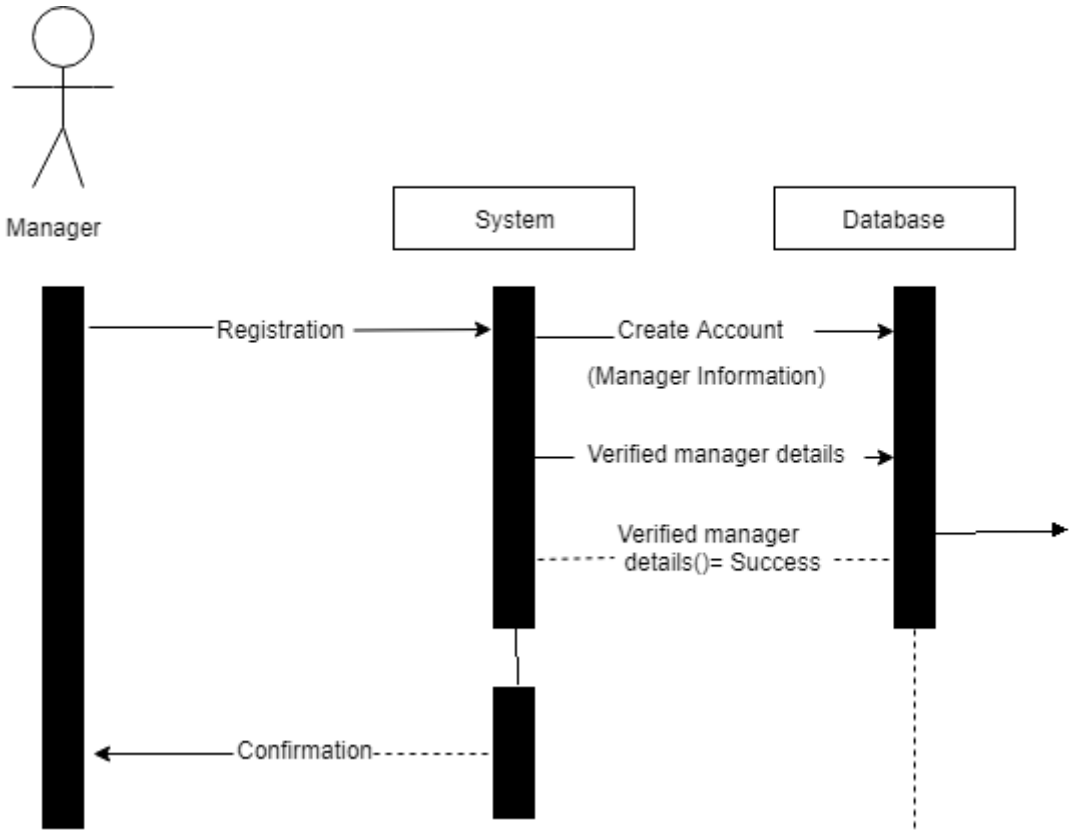

Figure 5.1.1: Sequence Diagram of Registration

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5.1.2 Sequence Diagram for Log In:

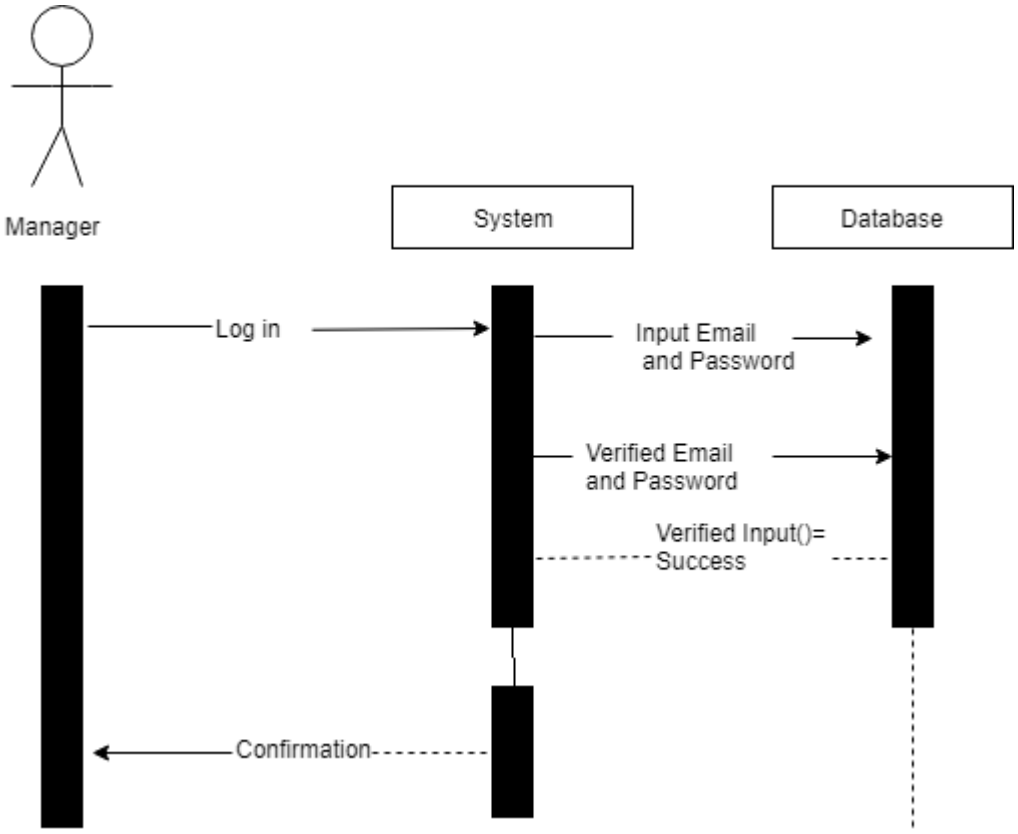

Figure 5.1.2: Sequence Diagram of Log In

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5.1.3 Sequence Diagram for electricity billing:

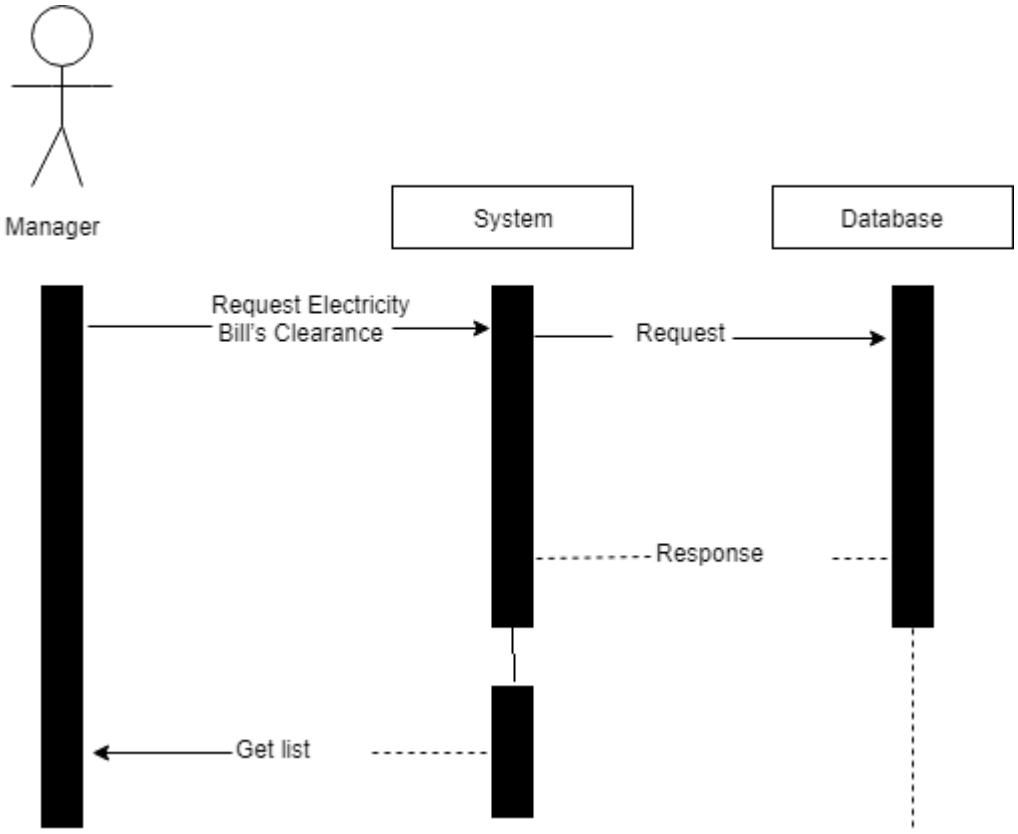

Figure 5.1.3: Sequence Diagram of Electricity Bill

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5.1.4 Sequence Diagram for water billing:

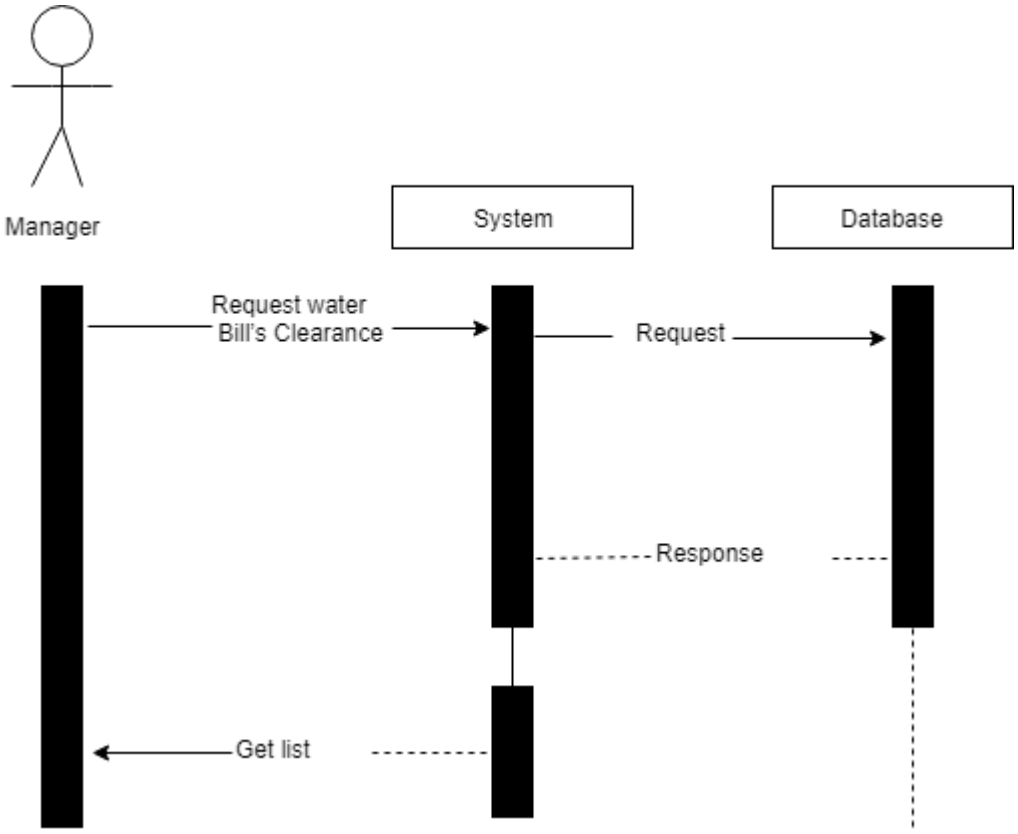

Figure 5.1.4: Sequence Diagram of Water Bill

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5.1.5 Sequence Diagram for shop rent:

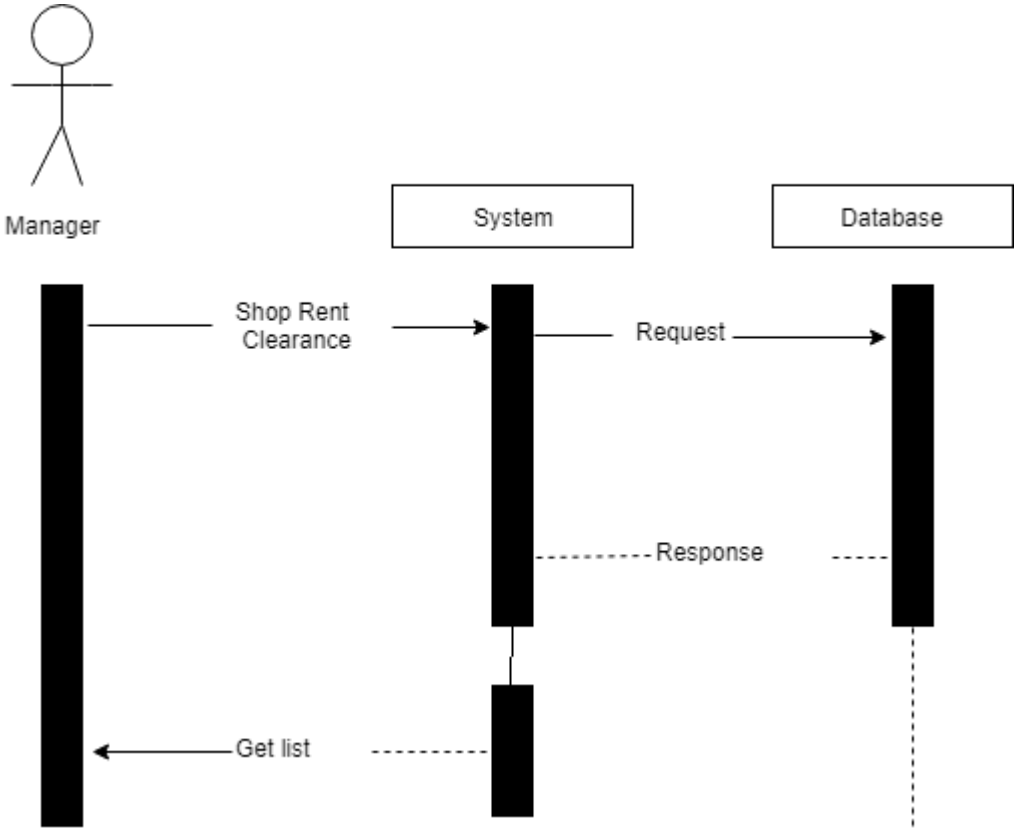

Figure 5.1.5: Sequence Diagram of Shop rent

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5.1.6 Sequence Diagram for ac billing

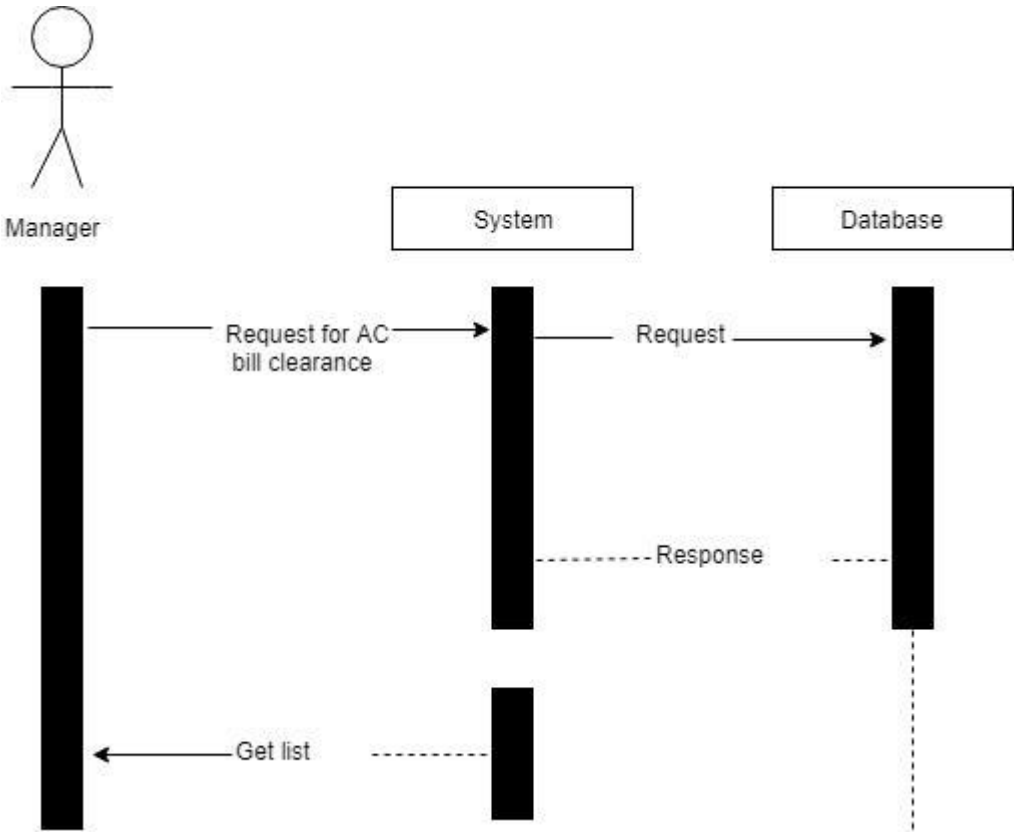

Figure 5.1.6: Sequence Diagram of AC Bill

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5.1.7 Sequence Diagram for making shop owner profile:

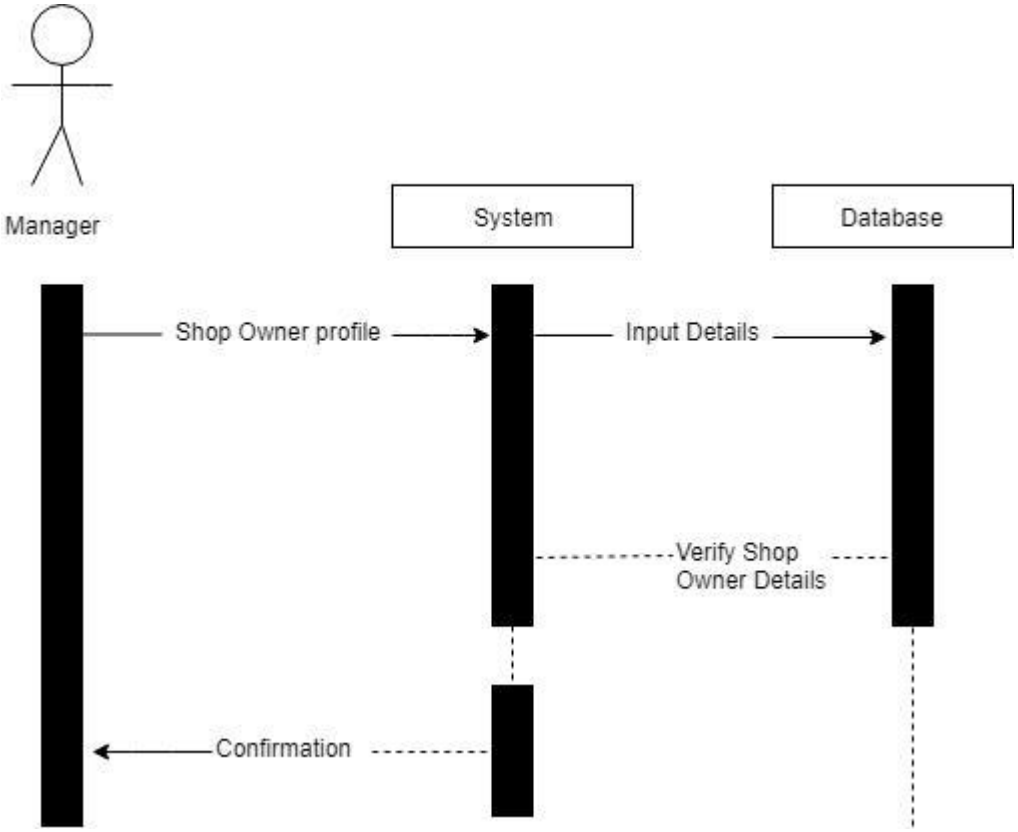

Figure 5.1.7: Sequence Diagram of Shop Owner Profile

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5.2 Database diagram

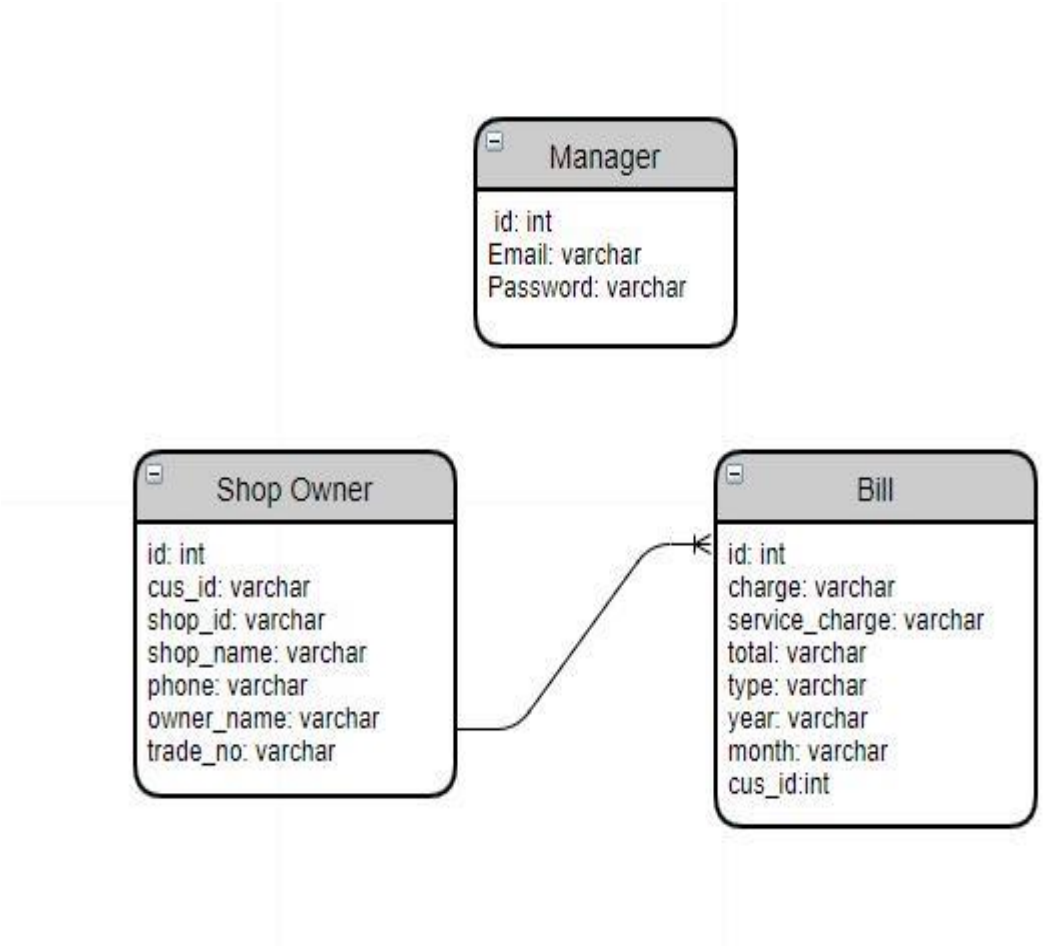

Figure 5.2: Database diagram

5.3 Development Tools & Technology

5.3.1 User Interface technology

Php

Html

Css

Jquery

mysql

Javascript

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Chapter 6

Output Screen

6.1 Home page of Mall Management system

Figure 6.1: Home page

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6.2 Shop Owner Bill's Clearance

Figure 6.2: shop Owner Bill's Clearance

6.3 Shop Owner Profile

Figure 6.3: Shop Owner profile

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6.4 Bill's Description

Figure 6.4: Bill's Description

6.5 Bill's Description

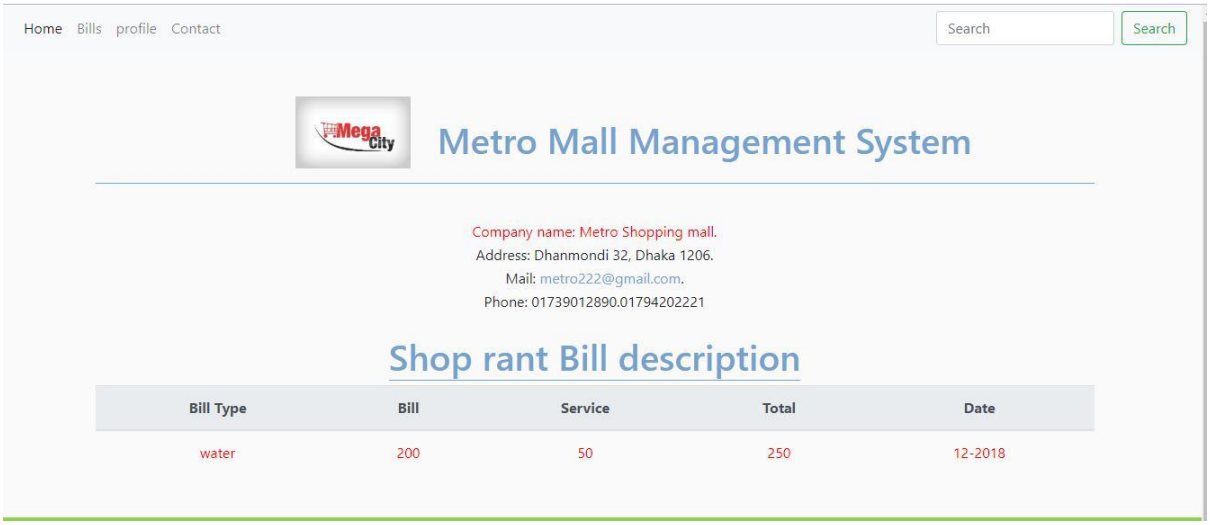

Figure 6.5: Bill's Descript

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Chapter 7

Testing

7.1 Importance of Testing

• The main act of testing is finding error.

• It is used not only validation but also verification to develop a application.

• For effective error identification, It is used.

• It makes sure reliability and satisfaction.

• Make sure to give better quality of this product.

• Make sure to give better representation of this application.

• Requisite to stay in software business.

7.2 Testing Modules

• Registration

• Login Panel

• check billing

•electricity service

•water service

• Information management

7.3 Testing Environment (Hardware/Software Requirements)

• Test data

•Web Application

• Database server

• Operating System (OS)

• Browser

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7.4 Testing Strategies

A testing method is an ordinary path to the testing process rather than an approach of devising particular system or component tests. Different testing methods may be accepted depending on the type of system to be tested and the development process used.

7.5 Test Cases

7.5.1. Test Case Module-1: - Registration

Table 7.5.1: Test Case Module – 1

Test Case ID:	Test Design by: Atkia labiba
Test Priority: High	Test Design Date: 22-11-2018
Module Name: Registration	Test Execute by: Mst Lima Khatun
Description: This section covers the functionality of registering new users	Test Execute Date: 25-11-2018

Precondition: User has no precondition

Dependencies: Enter input required information

Table 7.5.1: Test case – 1

step	Test case	Test data	Expected Result	P/f	Actual result
01	Enter empty value for any required field		Display error message	pass	Display error message
02	Enter non numeric value in contract Number field	amila k	Display error message “enter valid contact number”	pass	Display error message “enter valid contact number”
03	Enter password less than 6 characters long	9876 543	Display error message ”password length must be 6 characters”	pass	Display error message ”password length must be 6 characters”
04	Enter different email format	Kmi.com .sg	Display error message ”invalid email address”	pass	Display error message

	instead of xxx@xxx.xxx				”invalid email address”
05	New user Registration		Display error message ”Submitted Successfully”	pass	Display error message ”Submitted Successfully”

7.5.2. Test Case Module-2: - Login

Login

Table 7.5.2: Test Case Module – 2

Test Case ID: LTC2	Test Design by: Atkia Labiba
Test Priority: High	Test Execute Date: 25-11-2018
Module Name: Login	Test Design by: Lima khatun
Description: Test login process of Infrastructure Assistant	Test Execute Date: 25-11-2018

Precondition: User must be registered already

Dependencies: Input correct user name & password.

Table 7.5.2: Test Case - 2

step	Test cases	Test data	Expected result	Actual result	p/f
01	Enter empty value for user name and password		The email field is require	The email field is require	pass
02	Enter correct value for user name and password	Username and password	accepted	accepted	pass
03	Enter wrong value for user name and password	Username and password	Invalid login attempt	Invalid login attempt	pass
04	After giving input click submit button		Clicking on submit button directed on another page	Clicking on submit button directed on another page	pass

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7.6. Testing Deliverables

7.6.1. Project Status Report

This application run successful. This application has no error. This project can maintain this system and it can run very good.

7.6.2. Change Management

After testing, We have change this project code. We use some regular expression for increase this software usability.

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Chapter 8

Conclusion

8.1 Critical Evolution and Team Attainment

If manager is not comfortable with computer he/she should have problem with this project. User must good at English because the entire application is in English. He/she should have good knowledge of web surfing. User should be registered and then he/she can login the system.

8.2 Limitations

The user must have web access in order to use the system. The main risk is security behind performance the project. If somebody/hacker hacks the system then it will be a total disorder. So during development it will be one of our major worry.

8.3 Future Scope

Though our system is a management system so that other mall manager can use it. If this software use properly and user can understand its usability It can use for other mall like metro mall, house owner and others. It can use all the building, shop and all the mall in all over the world. It can develop for other things if it is useful for user and they got help by use it.

8.4 Final Synopsis

We have been a great pleasure to work on this project. This application helps to know about new technology. This project thing is some kind of strange thing but this is helping manager. To the purpose of Helping people with developing an application make a better management system.

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