

# **Drop Your Complain**

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Software Engineering.

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**APPROVAL**

This project entitled on “Drop Your Complain(An Online Platform)” submitted by **Mushrif Hoque** bearing ID:161-35-1429 to the Department of Software Engineering of 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 taken this project under the supervision of **Khalid Been Md.Badruzzaman**, Senior Lecturer, Department of Software Engineering, Daffodil International University. I also declare that neither this report nor any part of this has been submitted elsewhere for award of any degree.

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Above all, we would like to thank to The Almighty Allah for giving me strength to complete this project.

A project submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering.

**Department of Software Engineering**

**Daffodil International University**

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## CHAPTER 1

### INTRODUCTION

## **1. INTRODUCTION**

### **1.1. Project Overview**

Problem under Dhaka city corporation like: Garbage problem, Drainage problem, Manhole missing problem, Road damage problem, To complain this kind of problem through online to city corporation.

### **1.2. The Purpose of the Project**

When someone face this kind of problem then he/she can complain easily to the city corporation without waste of time and energy through this application. By this application authority can understand the problem under the city corporation and take the essential steps to solve the problem.

#### **1.2.1. Background of the Project Effort**

In Dhaka city we often face this kind of problem and we don't do anything and because we don't want to go city corporation office or most of the time we haven't any option to do something. To solve this problem I develop a website to drop complain. Where When

someone face this kind of problem then he/she can complain and check the work status of complain .

### **1.2.2. Goals of the Project**

By Using this system when anyone face problem like road damage , dustbin problem he or she can complain with proper location and complain details and admin can verify the problem ,and then admin can upload the status of work .Complainer can see the work by Complain Id which provide by system. By using this system it will save lots of time , energy and add value in people life of under Dhaka city corporation.

### **1.3. Beneficiaries and Benefits**

This projects are mainly beneficiaries for Complainers and Admin. Benefits are,

- \* To Complain by complainer is fully functional and flexible.
- \* Complainer can check work status.
- \* Admin can keep records.
- \* Admin upload work status.
- \*It saves a lot of time, energy of complainer.
- \* People start believing in online complain system

## **PROJECT PLANNING**

## **2. PROJECT PLANNING**

### **2.1. Project Scenario**

Complainer can submit the problem to authority with exact location with details and photography. After submit any problem to the authority the system will give him a Complain Id in Website UI and also sent the Complain Id in complainer Email so that complainer can view work status by complain id. City corporation check the problem with proper location and verify the problem . City corporation will upload the work status. The system have only 3 type of user , Admin and register and non-register Complainer .

### **Scenario 1:- User (Admin) Based**

- Admin login into the systems
- Check or view the complain list
- Upload work status
- Then Admin can logout

## **Scenario 2:- User (Complainer) Based**

1. Complainer can complain when he/she face
2. Complainer get complain Id in System UI
3. Complainer also get Complain Id in his/her Email which she/he provide while submit Complain
4. Complainer can registration to system
5. Complainer can log in to view or check work status of complain
6. Then complainer can logout

## **2.2. Stakeholders**

### **2.2.1. The Admin**

- 1.View complainer complain
- 2.Upload work status

### **2.2.2The user(Complainer)**

1. Submit Complain
- 3.Can registration
- 2.Check Work status

### **2.2.3The user(Complainer, Non-Register)**

1. Submit Complain

## **2.3. Mandated Constraints**

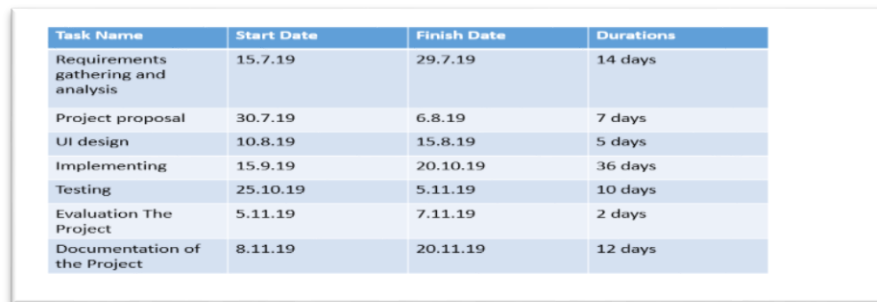
### **2.3.1. Budget Constraints**

Primary budget – 5k

Yearly maintenance cost – 2k

## 2.4. Project Schedule

### 2.4.1 Gantt chart



The Gantt chart displays the following tasks and durations:

Task Name	Start Date	Finish Date	Durations
Requirements gathering and analysis	15.7.19	29.7.19	14 days
Project proposal	30.7.19	6.8.19	7 days
UI design	10.8.19	15.8.19	5 days
Implementing	15.9.19	20.10.19	36 days
Testing	25.10.19	5.11.19	10 days
Evaluation The Project	5.11.19	7.11.19	2 days
Documentation of the Project	8.11.19	20.11.19	12 days

Fig-2.01: Gantt chart

### 2.4.2. Release Plan/Milestone

Table-2.1: Release Plan

Release	Version	Date
1 <sup>st</sup>	version 1.0.0	20.10.16
2nd	Version 2.0.0	5.11.19
3rd	Version 3.0.0	7.11.19

## Chapter 3

### Software Requirements Specification

### 3.1:Requirement Specification

FRQ_ID	FRQ_Name	Description	Priority
FRQ01	Complain Submit	Anyone can complain by using this System.	High
FRQ02	View Complain Status	Register can view complain status by using this system if provide complain id.	Low
FRQ03	Login[Admin]	Admin Can login to view complain list ,without login admin cant view complain list and upload status	High
FRQ04	Upload Status	Admin Can Upload status	High

FRQ05	Complain Id	Complainer get complain Id by Email	Medium
FR06	Admin Logout	Admin can close connection to system by logout .	Medium
FR07	Registration[Complainer]	Complainer can registration to view the complain status.	Medium
FR08	Login[Register Complainer]	Register Complainer can login to view the complain status.	Medium

### 3.2:Data Requirement:

Table 2.2: Data Requirements

No	Description	Priority
DR01	Complain type , Complain Area, Road Number , Photograph , Complain details , Complainer Name , Complainer Email , Complainer Contact Number requires when submit Complain by complainer .	High
DR02	Admin have to insert the login credentials accurately otherwise system will show an error with message.	High
DR03	Complainer have to registration to view complain status	low
DR04	Complainer must have to login to view complain status	Medium
DR05	Complainer must provide complain id to check complain status	Medium

### 3.3:Performance Requirements

#### 3.3.1:Speed and Latency Requirements

Table 3.3.1: Speed and Latency Requirements

No	Description
SLR01	Maximum 2 seconds to load data from SQL server to System .
SLR02	Maximum 2 seconds to upload data in SQL server from System.



SLR03	The system must have a high speed to reply to the user request.
-------	---

### 2.3.2.Precision and Accuracy Requirements

Table 233.2: Precision and Accuracy Requirements

No	Description
SLR01	The input data should be accurate when Complainer or Admin provide data to the system.
SLR02	All data should be in place accurately where it is associated

### 3.3.3. Capacity Requirements

Table 3.3.3: Capacity Requirements

No	Description
CR01	The system will be managed all the insertion of data in database.
CR02	The server database size must be able to load the system data.

## 3.4. Dependability Requirements

### 3.4.1. Reliability Requirements

Table 2.4.1: Reliability Requirements

No	Description
RR01	All data should collect from users by permission and by accepting privacy policy
RR02	No one can use user's data for any other purpose except system needs.

### 3.4.2.Availability Requirements

Table 2.4.2: Availability Requirements

No	Description
AR01	The system should work 24 hours a day.
AR02	The system should provide the desired data to the user in time.

### 3.4.3.Robustness or Fault-Tolerance Requirement

Table 2.4.3: Robustness or Fault Tolerance Requirements

No	Description
FTR01	If the system has been crashed, it should not be more than an hour.

### 3.5 Maintainability and Supportability Requirements

#### 3.5.1. Maintenance Requirements

Table 2.5.1: Maintenance Requirements

No	Description
MR01	The system maintenance should be quick.

#### 3.5.2. Supportability Requirements

Table 2.5.2: Supportability Requirements

No	Description
SR01	The system should support Google chrome ,firefox .

#### 3.5.3 Adaptability Requirements

No visible adaptability requirements

#### 3.5.4 Scalability or Extensibility Requirements

No visible adaptability requirements

#### 3.5.5 Security Requirements

### 3.6 Access Requirements

Table-3.11: Access Requirements

No	Description
SR01	To get access to the system, the system provides session way..

#### 3.6.1 Integrity Requirements

To protect credentials of user from being stolen, all passwords are stored in encrypted form. The Requirements significantly reduces the value of stolen user credentials, it's not easy to decrypt the password.

#### 3.6.2. Privacy Requirements

Table 2.6.2: Privacy Requirements

No	Description
PR01	The user data should not contain any private issues.
PR02	All the confidential data should be encrypted.

### 3.7 Look and field Requirements

#### 3.7.1 Appearance Requirements

Table 2.8.1: Appearance Requirements

No	Description
AR01	The user interface must be attractive.
AR02	The user interface must be user friendly.
AR03	The user interface must be user interactive with user experiences.

#### 3.7.2. Style Requirements

Table 2.8.2: Style Requirements

SR01	The interface color should be material.
------	---

Chapter 4

**System Analysis**

## 4.1. Use case

A use case is a software and system engineering term that describes how a user uses a system to accomplish a particular goal. A use case acts as a software modeling technique that defines the features to be implemented .

### 4.1.1 Use case diagram

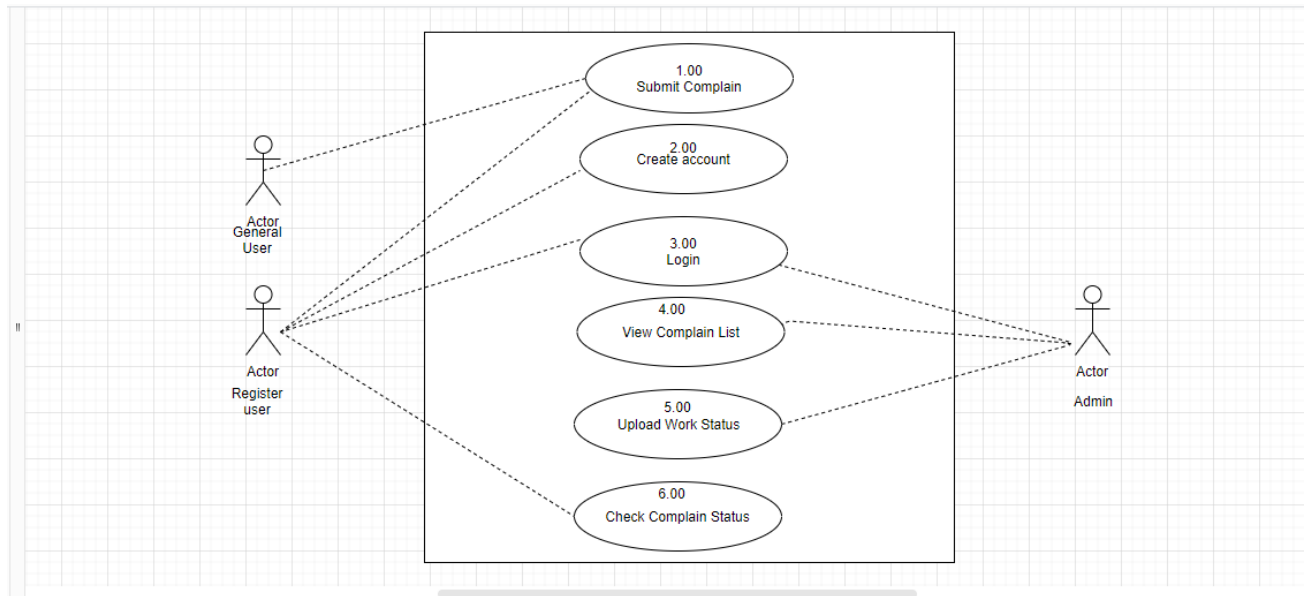


Fig: Use case Diagram

#### 4.1.1.1 Submit Complain

##### 4.1: Submit Complain

Use case no	1.00
Use case name	Submit complain
scenario	Any user can submit complain to system
Brief description	Users can enter the system and submit the problem with proper location , photograph and details

Actors	General user Register user	
preconditions	Enter into the system	
Post conditions	Get complain Id	
Flow of event	<div> <div>ACTOR</div> <div>SYSTEM</div> </div>	
	1.Enter All the required filed 2.Press submit button	1.1 check validation if field are empty
Exception conditions	2.1 If complain is already exist in system which is submit by other complainer and if the work status is pending the system will show complain in already exist by other complaier	

#### 4.1.1.2 Create account

##### 4.1 create account

Use case no	2.00	
Use case name	Create account	
scenario	Any complainer can registration for create account in the system	
Brief description	Any complainer can registration for create account in the system if he/she wants to view the complain work status	
Actors	General user	
preconditions	Enter the system	
Post conditions	Can check work status of complain view	
Flow of event	<div> <div>ACTOR</div> <div>SYSTEM</div> </div>	
	1.Enter username and password and email 2.Press singUp button 3. System give Acoount open message	1.1 check validation if field are empty

Exception conditions	2.1 If username , email is exist the show all ready register in the system
----------------------	--

### 4.1.1.3 Login

Table 4.1: Login

Use case no	UC1.0	
Use case name	Login	
scenario	All user are need to login this web site	
Brief description	Users can enter the system and use their account	
Actors	Tutor Parent	
preconditions	Registration for Tutor and parent, user must be exist	
Post conditions	Enter the system	
Flow of event	<b>ACTOR</b>	<b>SYSTEM</b>
	1.Enter username and password 2.Press login button	1.1 check validation if field are empty
Exception conditions	2.1 If username and password is not exist the show wrong username and password	
Use case no	3.00	
Use case name	Login	
scenario	Register user and Admin need to login the system	
Brief description	Users can enter the system and use their account	
Actors	Admin Register user	
preconditions	Registration for Register user must exist in database of the system	
Post conditions	Enter the system and go to the login page	
Flow of event	<b>ACTOR</b>	<b>SYSTEM</b>
	1.Enter username and password 2.Press login button	1.1 check validation if field are empty
Exception conditions	2.1 If username and password is not exist the show wrong username and password	

#### 4.1.1.4 View Complain list

Table :View  
Complain list

Use case no	4.00	
Use case name	View Complain list	
scenario	Admin need to login this web site	
Brief description	Admin Can enter in the module and view the complain list	
Actors	Admin	
preconditions	Must have to login the system	
Post conditions	Enter the system	
Flow of event	<b>ACTOR</b>	<b>SYSTEM</b>
	1.Enter username and password	1.1 check validation if field are empty
	2.View the Complain list	
Exception conditions	2.1 If username and password is not exist the show wrong username and password	

#### 4.1.1.1 Upload status

Table 4.1: upload  
status

Use case no	5.00	
Use case name	Upload status	
scenario	Admin upload the work status of complain	
Brief description	Admin view the complain list and upload the work status	
Actors	Admin	
preconditions	Login and view the complain details	
Post conditions	Enter the system	



Flow of event	<b>ACTOR</b>	<b>SYSTEM</b>
	1.Click on upload status button 2. Go to the upload status page 2.Press upload button 3. System show data update	1.1 check validation
Exception conditions	2.1 If username and password is not exist the show wrong username and Password while logging	

#### 4.1.1.1 Check complain status

Table  
4.1:**complain  
complain  
status**

Use case no	6.00	
Use case name	<b>Check complain status</b>	
scenario	Register user can view work status of complain	
Brief description	Register user can check work status of complain by complain id	
Actors	Register user	
preconditions	Login in the system	
Post conditions	View the complain status	
Flow of event	<b>ACTOR</b>	<b>SYSTEM</b>
	1.Give id in search box 2. press search button 3. show the result	1.1 check validation is field is empty
Exception conditions	2.1 If complain id is not exist the show nothing	

## 4.2. Activity Diagram:

### 4.3.1. Activity Diagram for Register user:

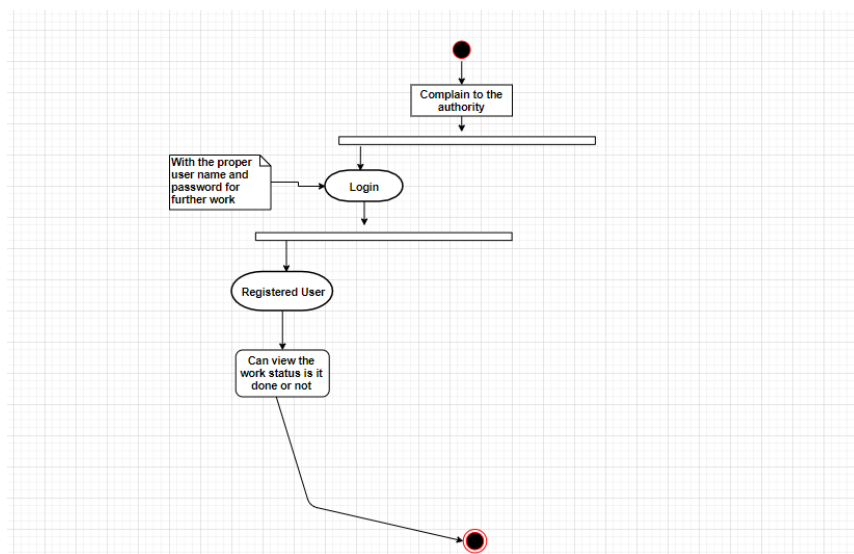


Fig: Activity Diagram for Register user

#### 4.3.2. Activity Diagram for General user:

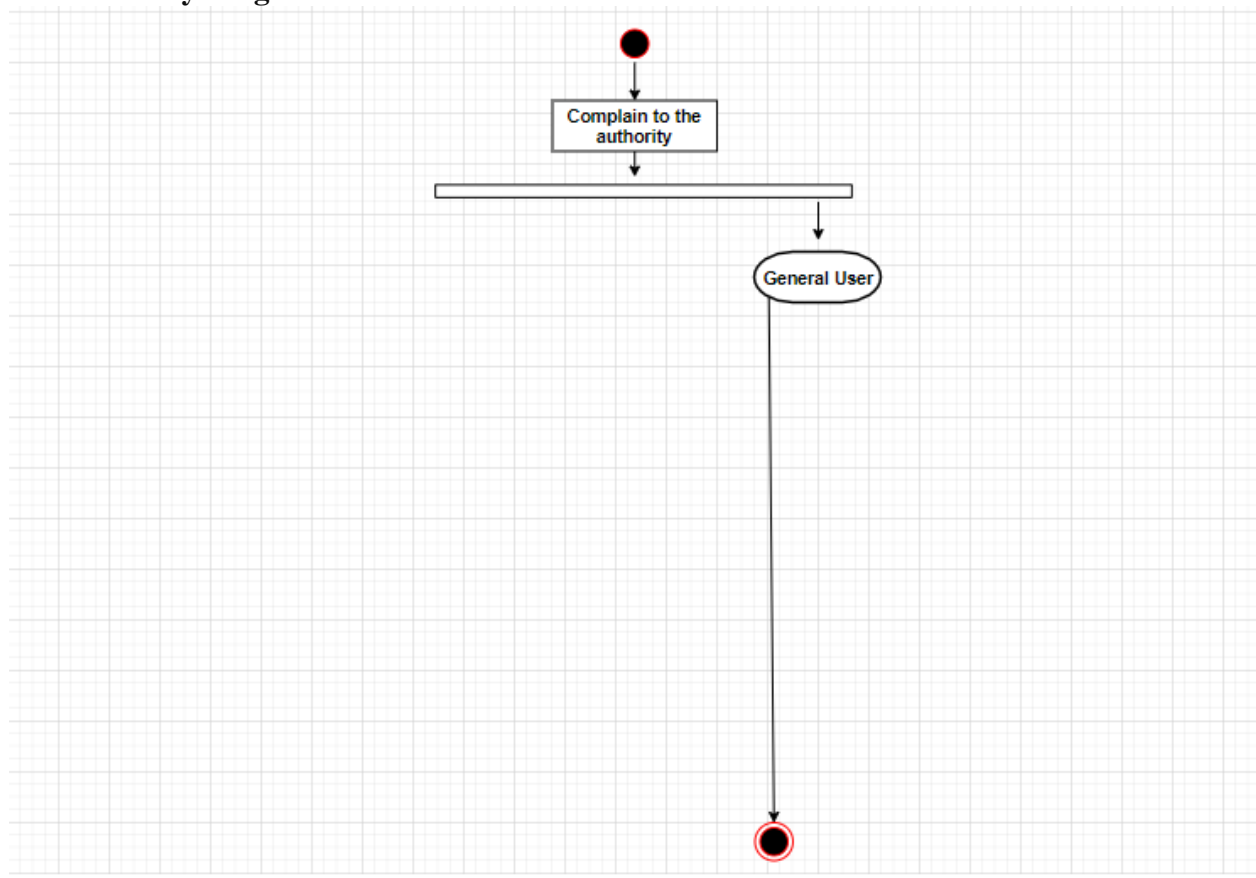
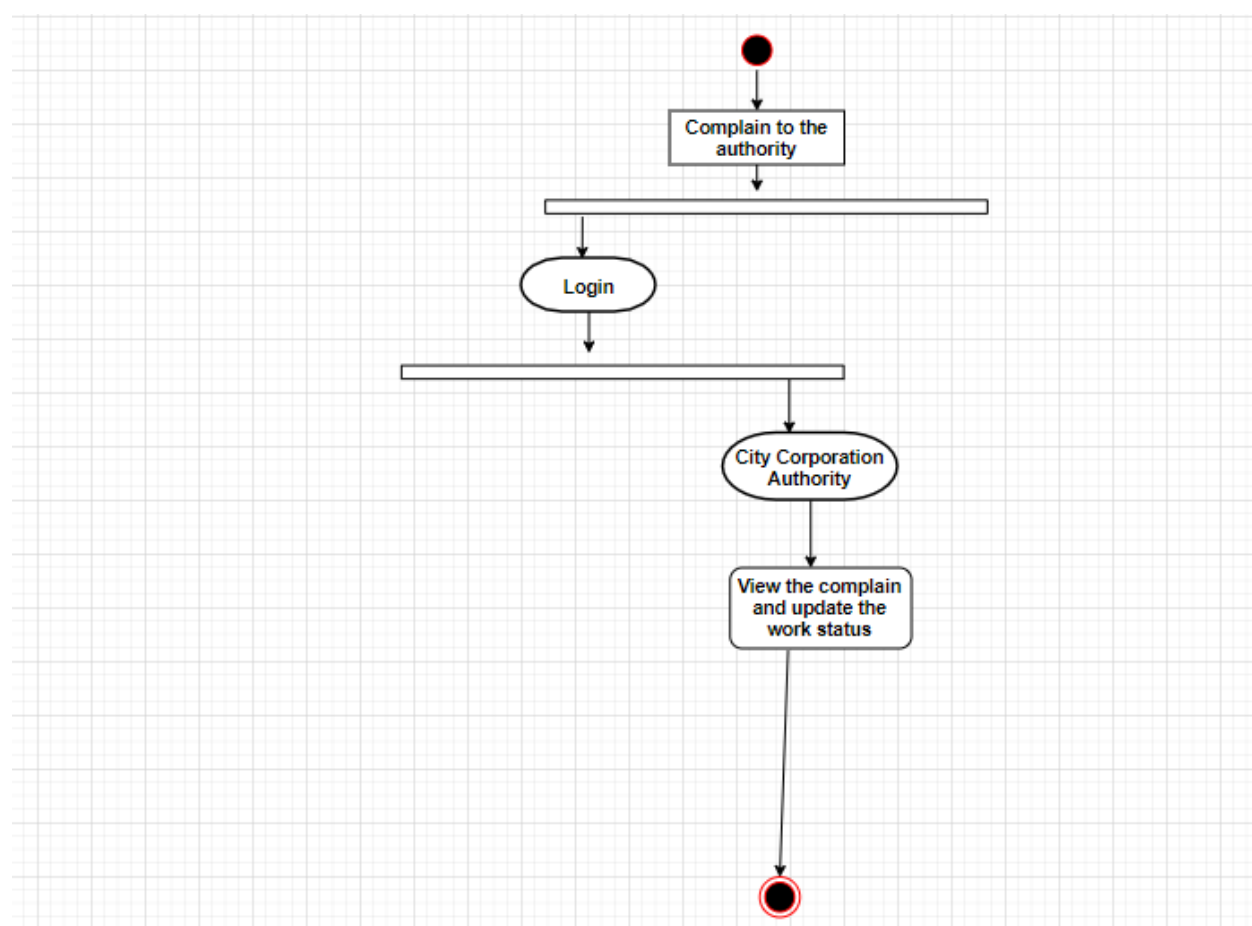
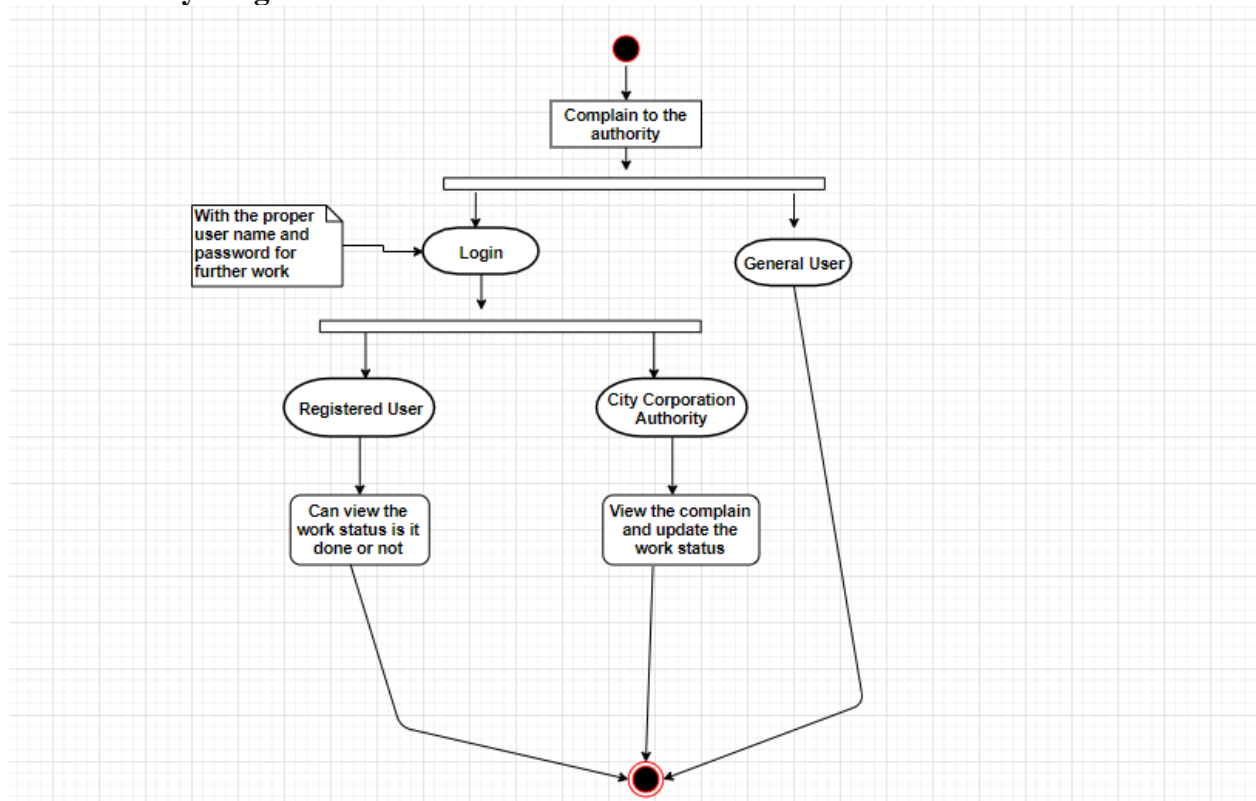


Fig: Activity Diagram for Register user

#### 4.3.3. Activity Diagram for Admin city corporation:



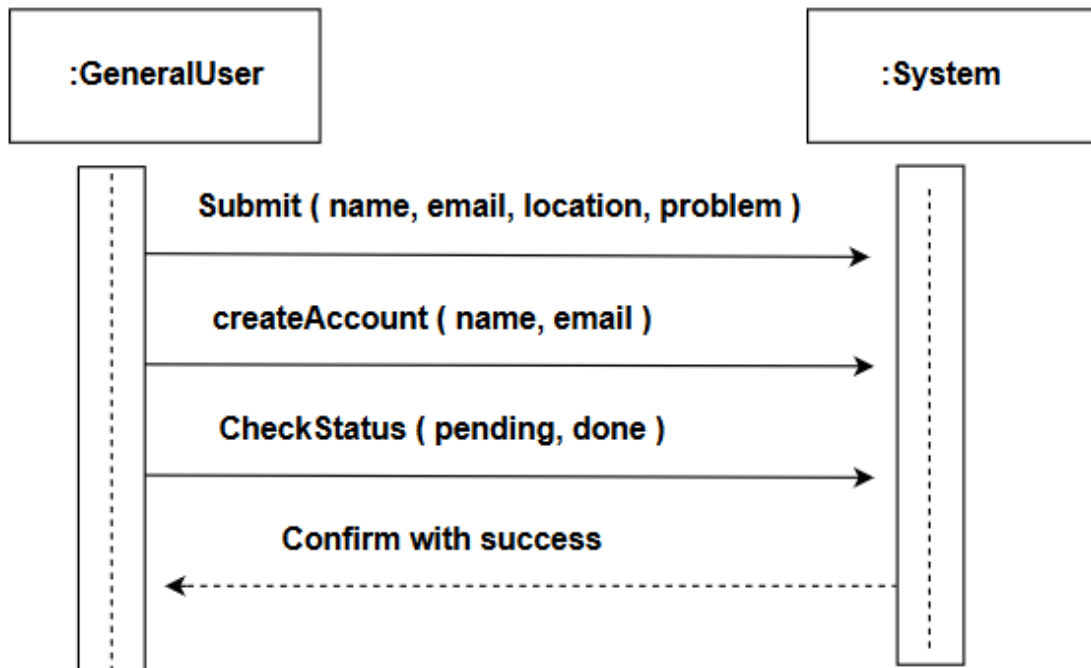
#### 4.3.3. Activity Diagram for All users:



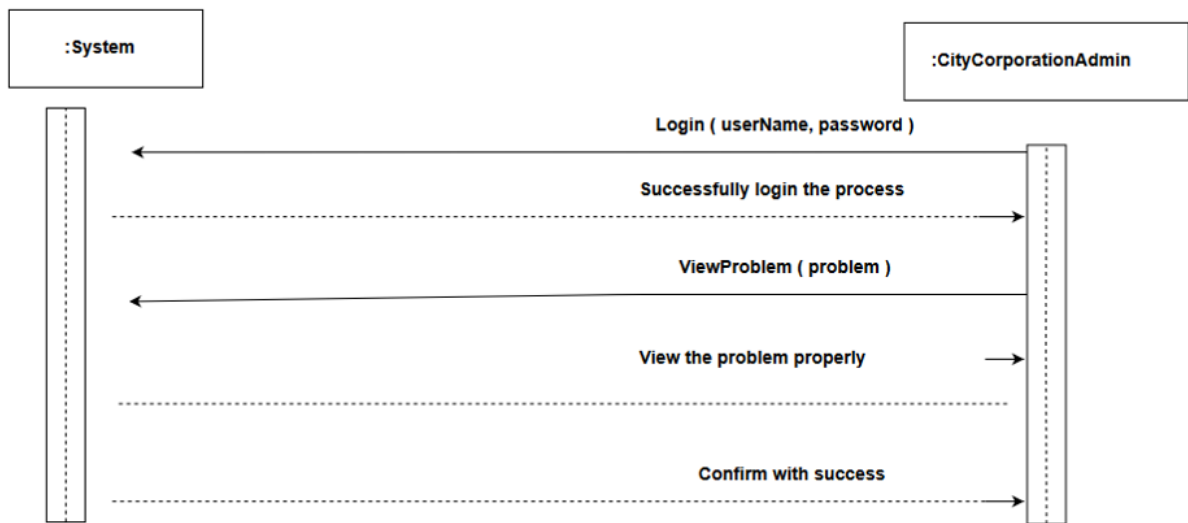
#### 4.4. Sequence Diagram:

UML Sequence diagrams are interaction diagrams that detail how operation are carried out.

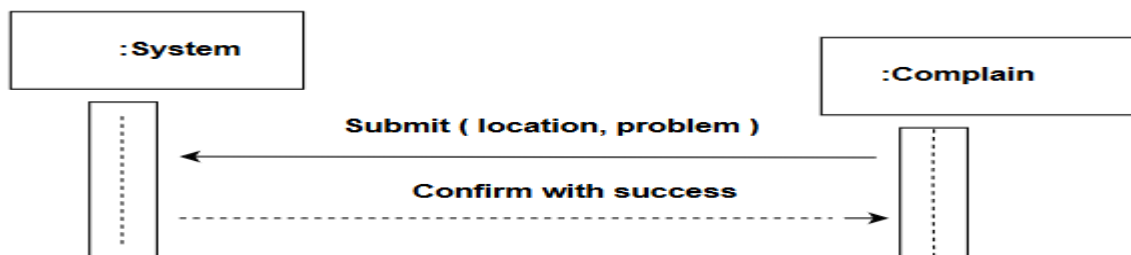
#### 4.4.1. System sequence diagram for general user



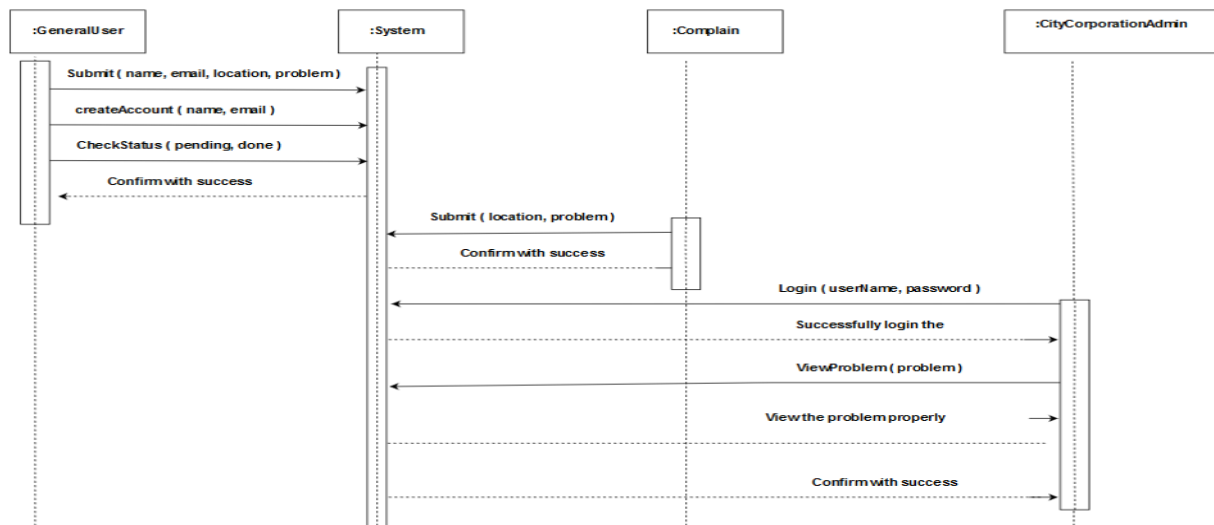
#### 4.4.2. System sequence diagram between system and city corporation admin



#### 4.4.3 Sequence diagram between System & Complain



#### 4.4.4. All User Sequence Diagram



## Chapter 5 System Testing



### 5.1. System Testing:

Software testing is defined as an activity to check whether the actual results match the expected results and to ensure that the software system is error free. It involves execution of a software component or system component to evaluate one or more properties of interest.

#### 5.1.1. Features to be tested

Featured Id	Featured Name	Description	Involved User
ST001	Submit Complain	User can Submit Complain	Register, General
ST002	Create account	User can create account to view work status	Register
ST003	Login	Login as authenticated user	Admin , Register user

ST004	Upload Work status	Admin need to login to upload work status	Admin
-------	--------------------	---	-------

### 5.1.2. Features not to be tested

Table-6.2: Feature not to be tasted

Featured Id	Featured Name	Description	Involved User
ST001	View Complain Photograph	Admin will see the Complain Photograph.	admin

## 5.2. Testing Strategies:

### 5.3.1. Test Case Table

Table-6.3: Test Case Submit Complain

### 5.3.3. Test Case Table

Table-6.3: Test Case Create account

#### 5.3.4. Test Case Table

Table-6.3: Test Case login

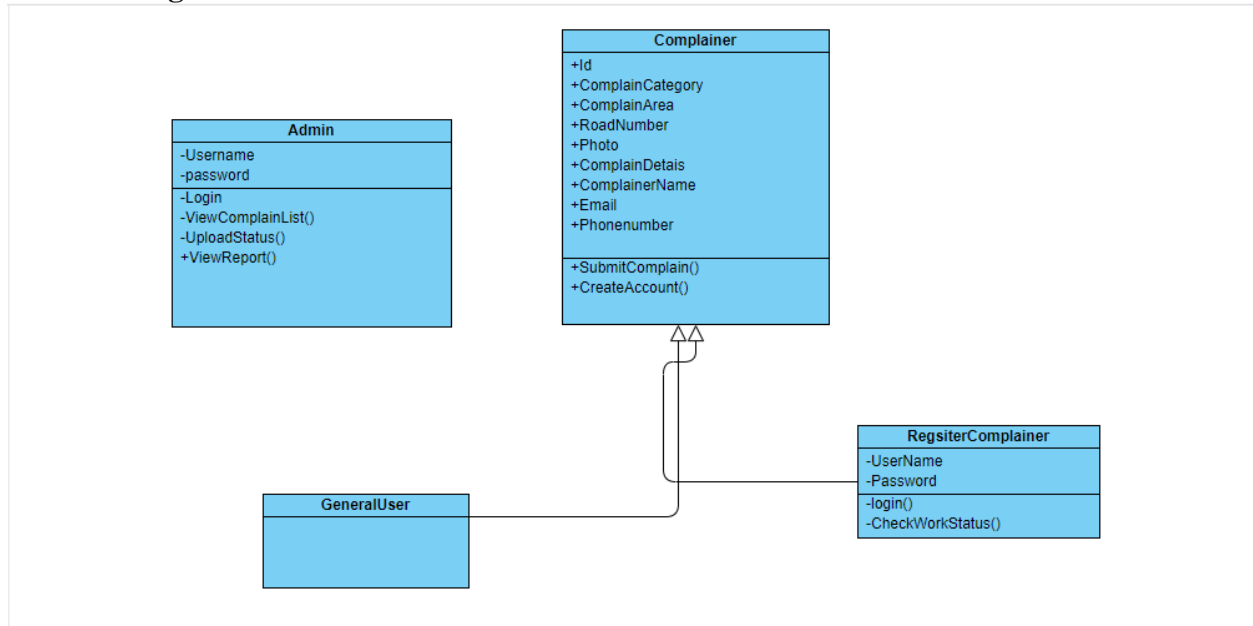
### 5.3.5. Test Case Table

Table-6.3: Upload work status

## CHAPTER 6

### **System Design Specification**

## 6. Class Diagram



### 6.1 Home Page

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

Complain Category

Select One

Complain Area

Select One

Road Number

Complain Details

Photo

Choose File

No file chosen

Complainer Name

Email

Contact Number

Submit

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## 6.2 Registration

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

Name

Email

Password

Sign Up

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## 6.3 Admin login

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

Admin Login

UserName

Password

Login

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## 6.4 Admin view complain list


[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

ComplainList

[Reoprt Show](#)  
[Logout](#)

Id	ComplainCategory	ComplainaArea	RoadNumber	ComplainDeatils	ComplainerName	Email	ContractNumber	
24	Main Hall Missing	Mohammadpur	44	mail hall missing in this raod	ratul	ratun@gmail.com	01354785264	<a href="#">Upload Status   View Photo  </a>
25	Road Damage	Mohammadpur	1	road damage problem	riha	mushrif35-1429@diu.edu.bd	01754785264	<a href="#">Upload Status   View Photo  </a>

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 download (1).jpg



Show all



## 6.5 Admin view upload work status

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

---

<b>Id</b>	<input type="text" value="24"/>
<b>ComplainCategory</b>	<input type="text" value="Main Hall Missing"/>
<b>ComplainArea</b>	<input type="text" value="Mohammadpur"/>
<b>RoadNumber</b>	<input type="text" value="44"/>
<b>ComplainDeatils</b>	<input type="text" value="mail hall missing in this raod"/>
<b>ComplainerName</b>	<input type="text" value="ratul"/>
<b>Email</b>	<input type="text" value="ratun@gmail.com"/>
<b>ContractNumber</b>	<input type="text" value="01354785264"/>
<b>GiveStatus</b>	<input type="text" value="Pending"/>
	<input type="button" value="Save"/>

---

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## 6.6 Admin view complain photograph and details

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

### Details

[Complain List](#)

[Logout](#)

**ComplainCategory** Main Hall Missing  
**ComplainArea** Mohammadpur  
**RoadNumber** 44  
**ComplainDeatils** mail hall missing in this raod

**Photo**



**ComplainerName** ratul  
**Email** ratun@gmail.com  
**ContractNumber** 01354785264  
**GiveStatus** Pending

## 6.4 Admin view complain report

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

### Report

[Complain List](#)

[Logout](#)

Id	ComplainCategory	ComplainArea	RoadNumber	ComplainDeatils	ComplainerName	Email	ContractNumber	GiveStatus
24	Main Hall Missing	Mohammadpur	44	mail hall missing in this raod	ratul	ratun@gmail.com	01354785264	Pending
25	Road Damage	Mohammadpur	1	road damage problem	riha	mushrif35-1429@diu.edu.bd	01754785264	Pending

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## 6.7 Register user login

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

UserName

Password

Sign In

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## 6.8 Register Check work status

[Drop Your Complain](#) [Complainer Registration](#) [Complainer Login](#) [Admin Login](#)

[logout](#)

Logout

Check Complain Status Here By Complain Id

ComplainCategory	ComplainArea	RoadNumber	ComplainDeatils	Work Status
Main Hall Missing	Mohammadpur	44	mail hall missing in this road	Pending

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## **6.9 Development Tools & Technology**

1. Asp.net
2. MVC Framework
3. Entity Framework
4. JQuery
5. C#
6. Html
7. Bootstrap
8. Css

Chapter 7  
**Project Summery**

**7.1. GitHub link:** <https://github.com/prantoshon/ProjectFinalYear>

**7.2. Limitations:**

- Cant Attach Google map.
- Limited Complain Id can sent in Email

**7.3. Obstacles & Achievements:**

I have to face many obstacles to complete this project as example add photograph of complain in database and then show in complain details, email verification , catch duplicate request . Although I have done it by taking help from my supervisor, searching the concept from google ,friends . I achieve my confident to develop this project alone .

**7.4 FUTURE IMPROVEMENT**

- 1.Attach Google map
2. Sent Complain Id in Phone Number

**8.5 References**

To complete audit application, I have taken help from many places. Some references are given bellow:

- [1] <https://www.tutorialsteacher.com/mvc/mvc-architecture>
- [2] <http://csharp-video-tutorials.blogspot.com/p/aspnet-mvc-tutorial-for-beginners.html>
- [3] <https://www.c-sharpcorner.com/article/introduction-to-asp-net-mvc2/>
- [4] [www.w3schools.com](http://www.w3schools.com)
- [5] [www.jquery.com](http://www.jquery.com)

