



Daffodil
International
University

SWE-431 Project

Project Documentation

Design and Development of a Website on Cat Adoption from the Perspective of Bangladesh

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

Supervised by

Nazia Nishat

Senior Lecturer

Department of SWE

Daffodil International University

Submitted By

Farhana Acter

ID: 151- 35 –1125

Department of SWE

Daffodil International University

DECLARATION

I hereby declare that I have taken this project under the supervision of **Nazia Nishat, Senior Lecturer, Department of Software Engineering, Daffodil International University**. I also declare that neither this project nor any part of this has been submitted elsewhere for award of any degree.

Student Name: Farhana Acter

ID: 151-35-1125

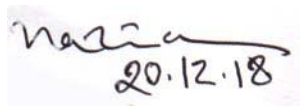
Batch : 16th

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

Certified by:



Name of the Supervisor: Nazia Nishat

Designation: Senior Lecturer

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

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Special thanks to Daffodil International University’s family. Finally, I would like to thank my family and friend for their support. I wouldn’t have been able to get here without them.

Executive Summery

In Bangladesh there are a lot of people who love cat but there was no specific website for adoption of cats. Some Facebook sites are available but sometimes those sites are not trustworthy. To solve this problem I would like to build a website for adoption of cats at free cost.

This website help those people who want to adopt/donate with free cost. Website named as “Cat adoption” will help cat admirers to donate or adopt cat in Bangladesh. Using this website cat donor can create, update, delete post, view the post, search post and cat adopter also can create, view search and apply for adoption.

This website trustful because there are no reason to cheat ,this website help both of adopter and donor cause people who will face problem to take care of cat and want to give someone but they don't find someone who give love and care the cat, they find someone. And also those people who want a pet cat but they can't afford for money, they can find a cat as per choice.

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Chapter-1

Introduction

1.1Project Overview

Cat adoption website very helpful for those people who want to donate their cat to any cat lovers and also for those people who want to adopt cat. Here, users can also give post for donate cat and see those post and choose cat from those posts easily. I talked to some catlovers, as a result I found that some people take advantages using some cat adoption social page for cat lovers. I want to help cat lovers making the adoption process easier through a website, it is also cost effective and reliable medium.

1.2Project Purpose

Donors' post is recorded in "Cat Adoption" website, from those posts cat lovers who want to adopt cat, choose preferable cat easily according to his choice. If they feel confused about anything they can communicate with admin or any donors easily because its records donors' information so that approximately no one face any problem like spoofing.

1.2.1Background

There is no specific website about cat adoption but there are many social site about it for example catloversbd[1], bdclover[2], cat adoption treaty Bangladesh[3], Bangladesh cat club[4] etc but this are not assembled they are in scattered position. Most of the sites are fake, they cheat people and take money from them and make fool of them, so I want to build up this website totally free so that cat lovers can easily find new home for their loveable cat and get a loveable cat as per choice.

1.2.2 Benefits &Beneficiaries

This website for help Cat adopter and cat donor .They can easily find here what they want

- It saves time and money
- Easy to find out cat donor and adopter details from post
- This website easy to use
- This website safe and secure
- Cat donor and cat adopter can give post about cat.
- Cat adopter easily find cat
- No one can cheat
- Save time while searching
- Easy to use

1.2.3 Goals of the Project

The basic functionality of this website is making the process user friendly for user. It helps admin to control the members and allows cat donor and adopter to choose their desired cats too. All this data is logged in the database. Mainly It helps cat lovers.

1.3Stakeholder

There are three users associated with this project. They can share information by creating posts and enrich this website. Their feedback helped me to develop this project

- Admin
- Cat donor
- Cat adopter

1.4 Propose System Model

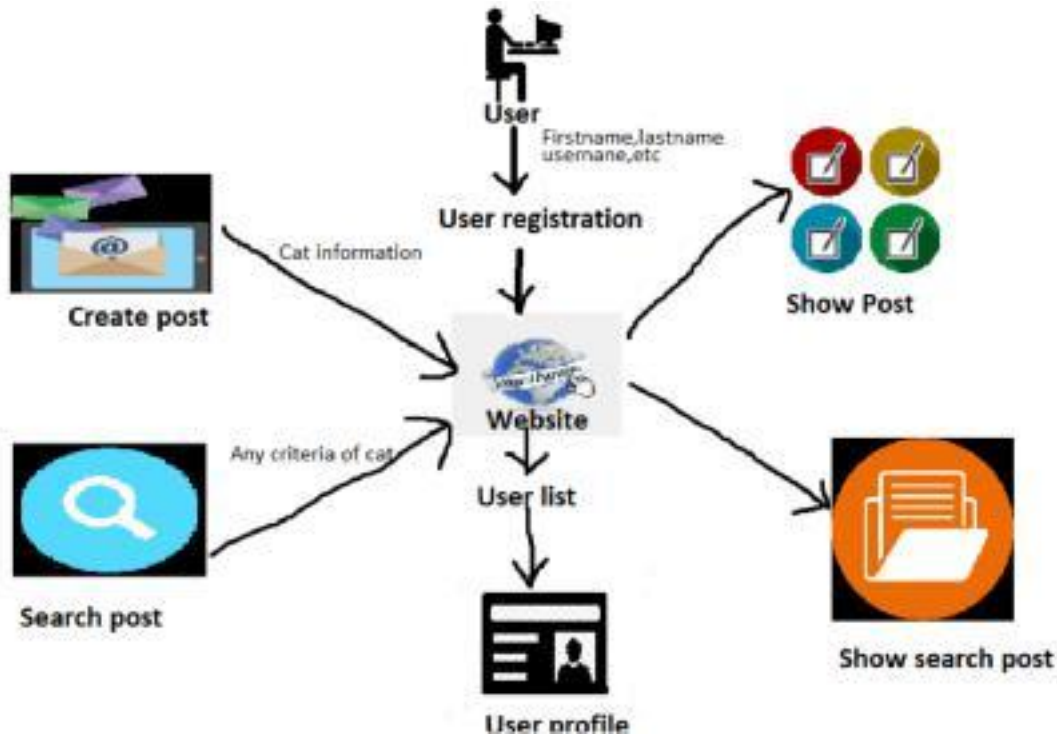


Figure-1.4Website process model

Using this website anyone can registration as a donor or adopter. Admin can view profile, handle request, login. User can create post for cat, view post and search post etc.

1.5Project Schedule

To fulfill the requirements and complete the project at the right time, project schedule helps for proper planning. I also make a project schedule to complete my project properly.

1.5.1 Gantt Chart

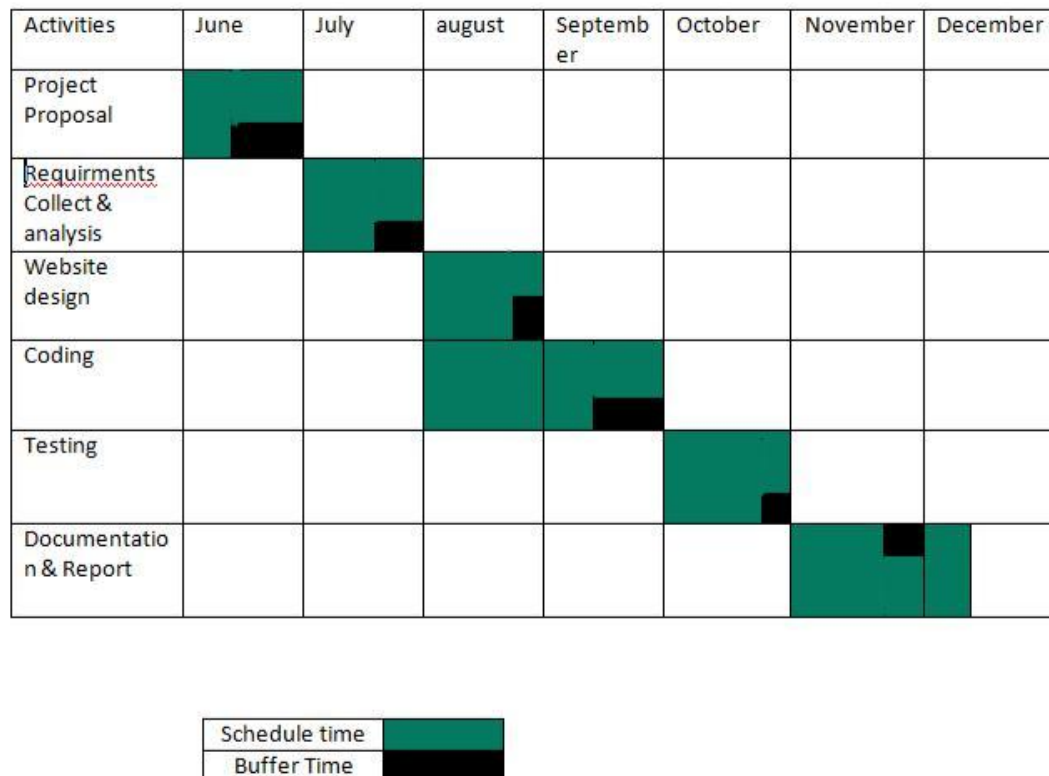


Figure-1.5.1: Gantt Chart

1.5.2 Milestones

Milestones, a timeline of a project, will clarify the task. This project milestones are as follows:

Task No	Task Name	Duration
1	Planning	2 week
2	Requirement gathering & Analysis	1 week
3	UI Design	2 week
4	Database design	2 week
5	Development	2.5 week
6	Testing	1 week
7	Implementation	1 week
8	Evaluating the project	1 week

Chapter-2

Software Requirement Specification

2.1 Functional Requirements

The whole project have to develop on the basis of the following requirements

2.1.1 User Registration

Fr-01	User Registration
Description	In this website there are 3 types users like cat donor, cat adopt, admin etc. But user registration page is only for those people who want to donate or adopt cat. This page is required some information like as first name ,last name ,username, address, Phone No etc. and store the date as a member information.
Stakeholder	Cat donor ,cat adopter

2.1.2 Login

Fr-02	Login
Description	In this website there are 3 types users like cat donor, cat adopt, admin etc. User can login after complete Registration. Admin can login anytime
Stakeholder	Cat donor ,cat adopter,admin

2.1.3 Create Post

Fr-03	Create Post
Description	In this website cat donor and cat adopter both can create post. To create a post for cat, a person should have registered as a user then if he donate cat then go to to donate cat and fulfill requirement or if he/she give post for adopting then go to adopting-cat and fulfill requirements
Stakeholder	Cat donor, cat adopter

2.1.4 View Post

Fr-04	View Post
Description	Both cat Donor and cat adopter can view post. According to the cat donor post show a cat collection to help the cat adopter choose cat, and according to the cat adopter post show a post to help the donor Admin also can view
Stakeholder	Cat donor ,cat adopter, admin

2.1.5View Member

Fr-05	View member
Description	Admin can view user Profile. Admin also can delete user profile.
Stakeholder	Admin

2.1.6Reject Post

Fr-06	Reject Post
Description	Admin can delete post.
Stakeholder	Admin

2.2Data Requirements

- Full information of Cat adopter and cat donor
- Need to know about cat info
- Managing skills and programming skills

2.3Performance requirements

It's very necessary to sustain the performance of the project. To assure the better performance, this project has to meet some requirements which will provide the better performance.

2.3.1Speed and Latency Requirements

While in searching or viewing the website in the browser, website need a minimum amount of speed to perform the task

Slr-01	The system will be faster
Description	When the user browsing, it depends on their internet speed. It also depends on server bandwidth speed.
Stakeholder	Cat donor, Cat adopter, Admin

2.3.2 Precision and Accuracy Requirements

Website has to confirm the Legibility and Accuracy of the data.

Par-01	Data Accuracy
Description	The input data should be correct and right pattern data, otherwise the input information never saves. Like username, Phone etc the input information is not valid, the data never save. Or the input data pattern is not match; the system never saves or accepts the data.
Stakeholder	Cat donor, Cat adopter

2.3.3 CAPACITY REQUIREMENT

The website should maintain the all inserting data

Cr-01	Manage the all data in database system
Description	All registration data like Cat Donor registration data, cat adopter registration data, Post information are store in the database in right format
Stakeholder	Cat donor, Cat adopter

2.4 Dependability Requirements

Dependability means, it measures of a website availability, reliability, security etc. Here, dependability means the running time of this project.

2.4.1 Reliability and requirements

Ra-01	The system must be available 24x7
Description	1.It's available 24 hours in a day 2.The system must be updated regularly
Stakeholder	Cat donor, Cat adopter

2.4.3 Robustness and fault tolerance requirements

Rft-01	The system handles over access and system error
Description	Sometimes multiple user can over access to this system. The system can handle multiple user access
Stakeholder	N/A

2.4.4 Safety critical requirements

There are no specific safety critical requirements

2.5 Maintainability and supportability

To look after or maintain and support the project some person have to associate with this project.

2.5.1 Maintenance requirements

MR-01	Website helps to Delete the member info at any time
Description	Admin can delete member info if its fake
Stakeholder	Admin

2.5.2 Supportability Requirements Specification

SRS-1 To understand the website's behavior on a technical support is required by the website operator. The reason for reading them might be

SRS-2 Website malfunction has occurred and the system operator has to find the exact point of time when this happened

SRS-3 Website produces wrong results and the developers must be able to reproduce the data flow through the system

SRS-4 Hacker tried to breach the website's security mechanisms and the website operator must understand what he did

2.5.3 Adaptability Requirements

There are no specific adaptability Requirements.

2.6 Security Requirements

SR-1 Log in as a user

SR-2 Log in as a admin

To get access to this website or a specific module the website must provide an authentication mechanism. To prevent anyone to exploit stolen Data all user's password must be encrypted in hash process

2.6.1 Access Requirements

This website provides accesses the different module, by access the authentication way the authentic user.

AR-01	The system provides security strategies
Description	The website is designed in way that allows all modules to access a mechanism that provides security services
Stakeholder	Admin, cat adopter, cat donor

2.6.2 Integrity Requirements

To prevent credentials information 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.

2.6.3 Privacy Requirements

The website provides a protection of the database in the server. However, the website will have to increment this level of protection because of the personal data made available on the website & the larger share of people that will be having access to it through the website's registration. The user's privacy will be granted by the limited access that the log in process is going to give to the database

PR-01	All data will be protected
Description	The main requirement in the context is the generation of participant's data for analysis
Stakeholder	Admin, cat adopter, cat donor

2.7 Usability and human-interaction requirements

This website easy to use and all of the people who wants to donate cat and who want to adopt cat

2.7.1 Ease of use requirements

To make specific consumers to achieve quantified objectives with more effectiveness, satisfaction and efficiency in our system.

2.7.2 personalization and international requirements

There are no internationalization requirements added. We only make this website for help cat lovers

2.7.3 Understandability and politeness Requirements

This system is very easy to use and understand, and simple user-interface. Anyone can easily access this system easily

2.7.4 Accessibility Requirements

There are no specific accessibility requirements.

2.7.5 User Documentation requirements

UDR-01	The system developer documentation
Description	To develop my project , I have specified the requirements of user documentation I involved to my project documentation
Stakeholder	Website developer

2.7.6 Training requirements

There are no training requirements needed to build this system.

2.8 Look and feel requirements

There should not exist any unnecessary things on this project.

2.8.1 Appearance Requirements

AR-01	Labels of mandatory fields must be bold
Description	Labels of mandatory fields must be bold to identify them as being of mandatory.
Stakeholder	Admin

2.8.2 Style Requirements

User interface will be web based. For styling the interface and making lucrative, I need to use CSS, CSS framework as bootstrap, JavaScript

SR-01	The look and feel must be controllable using style sheet
Description	The styling of the elements of the web based user interface will be defined using CSS, JavaScript and bootstrap
Stakeholder	Admin, cat donor cat adopter

2.9 Operational and environmental requirements

Operational and environmental requirements is very important because this project may not work in every environment and its operation may not accurate in every time.

2.9.1 Expected Physical Requirements

There is no specific expected physical requirements.

2.9.2 Requirement for Interfacing with Adjacent System

There is no specific interfacing with adjacent system requirements.

2.9.3 Release Requirements

There are no specific release requirements but in the project schedule section it was described briefly.

2.10 Legal Requirements

Fraudulent data and engaging third party software or third person is totally prohibited.

2.10.1 Compliance Requirements

Compliance requirements are only guidelines for compliance with the hundreds of laws and regulations applicable to the specific type assistance used by the recipient, and their objectives are generic in nature due to the large number of federal programs. Each compliance requirement is identified by a letter, in alphabetical order.

2.10.2 Standard Requirements

To comply with the Open Standards Requirement, an "open standard" must satisfy the following criteria. If an "open standard" does not meet these criteria, it will be discriminating against open source developers.

Chapter-3

System Analysis

3.1 Use Case Diagram

The following diagram has been depicted with two users. The relationship of different node with this two users clarify the system in brief.

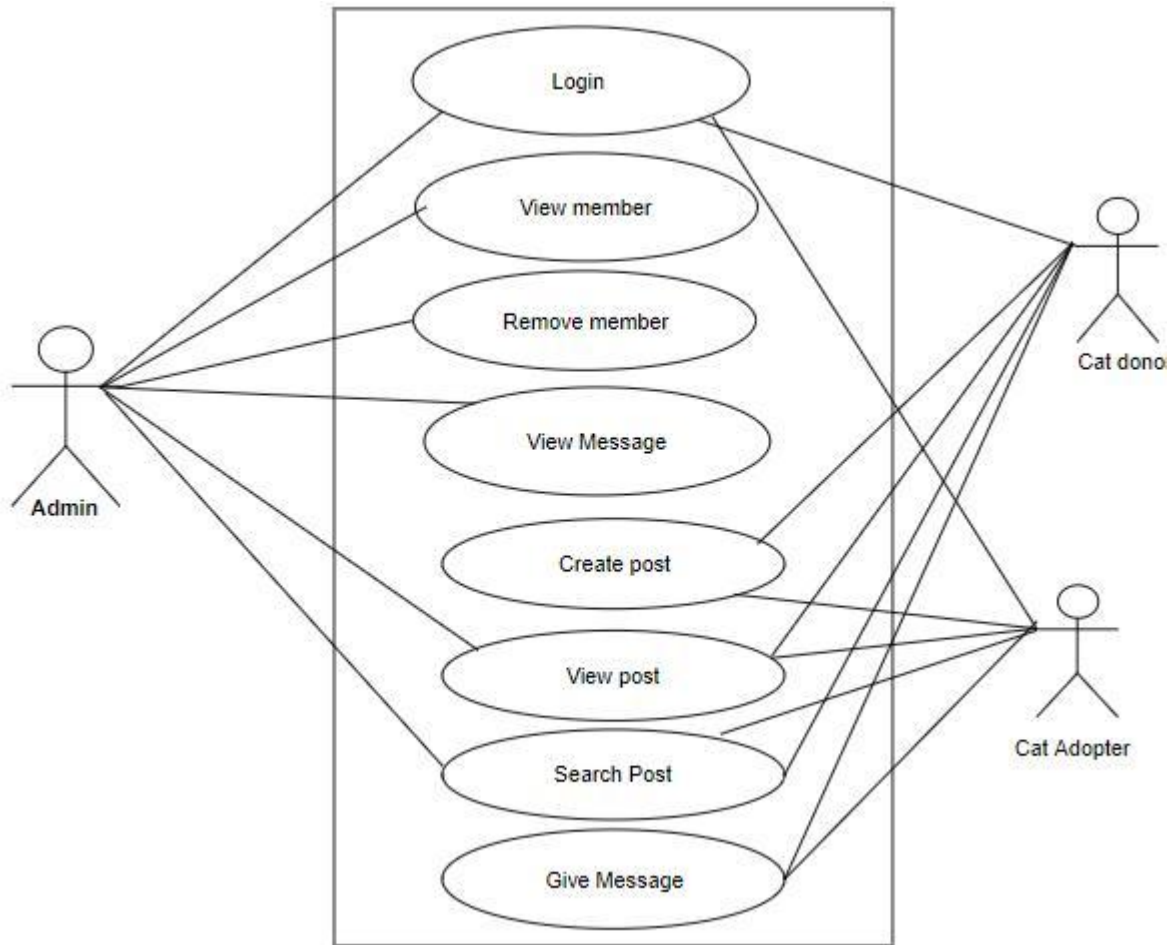


Figure-3.1: Use-Case Diagram

3.2.1 View and Remove Member

Use case title	View and Remove Member
Goal	Showing member information and delete it
Preconditions	Must User should fulfill the registration
Success End Condition	Admin can view member page h/she can delete any member
Failed End Condition	Redirect the page
Primary Actors:	Admin
Trigger	N/A
Description / Main Success Scenario	View the member page, know about member info, if any member is fake admin can remove the member
Alternative Flows	N/A
Quality Requirements	N/A

3.2.2view Message

Use case title	View Message
Goal	Showing any query of user what they message
Preconditions	User should send the message
Success End Condition	Admin can view message
Failed End Condition	Redirect the page
Primary Actors:	Admin
Trigger	N/A
Description / Main Success Scenario	View the message, and help the user about what they want
Alternative Flows	N/A
Quality Requirements	N/A

3.2.3 Create post

Use case title	Create post
Goal	Create post for donation and adoption
Preconditions	User should do the registration
Success End Condition	Successfully complete the post submission
Failed End Condition	Redirect the page
Primary Actors:	Cat adopter, Cat Donor
Trigger	N/A
Description / Main Success Scenario	User can create post for adoption and donation so that people can view it and choose
Alternative Flows	N/A
Quality Requirements	N/A

3.2.4 View and Search post

Use case title	View and search post
Goal	View the post and search from there as per choice
Preconditions	User should do the registration
Success End Condition	View the post
Failed End Condition	Redirect the page
Primary Actors:	Cat donor, Cat adopter
Trigger	N/A
Description / Main Success Scenario	View the post of cat adoption and cat adoption, and search from there as per user choice
Alternative Flows	N/A
Quality Requirements	N/A

3.3Activity Diagram

Following activity diagrams are exactly describing the flow of the different state of the project.

3.3.1Registration Activity

This figure explain registration process. If anyone enter the system, h/she see the all the option. And who are want to registration, he/she might do follow the instruction. After successful registration he/she can login in the system and access different option.

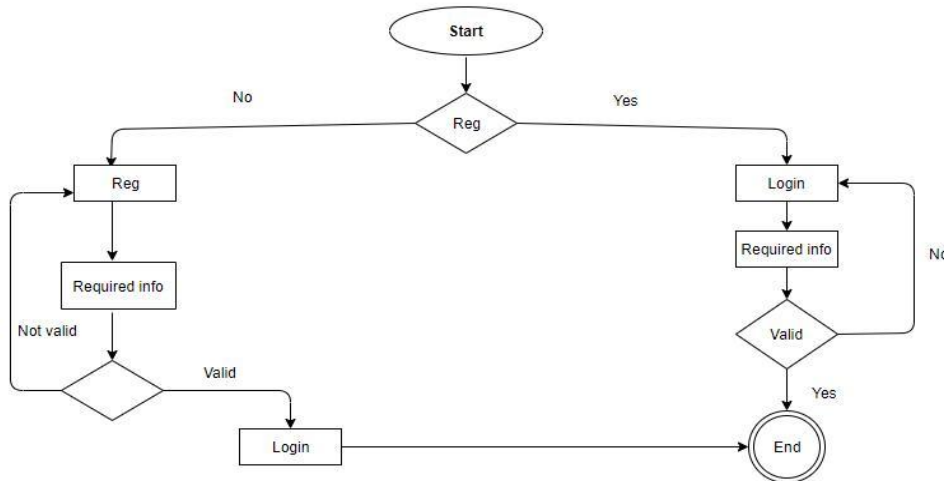


Figure 3.3.1Registration Activity

3.3.2View Member Activity

This activityr explain how admin show the member info

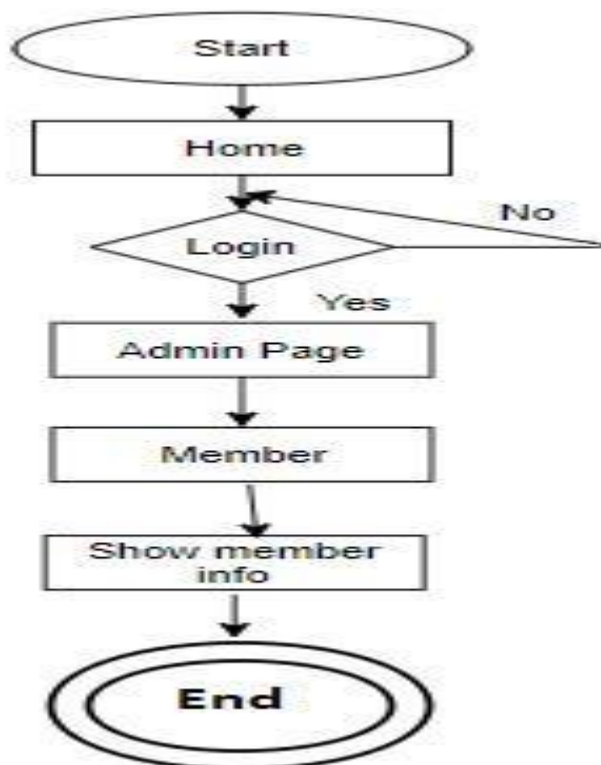


Figure3.3.3View Member Activity

3.3.4 View Message Activity diagram

This activity explain how admin view the member message

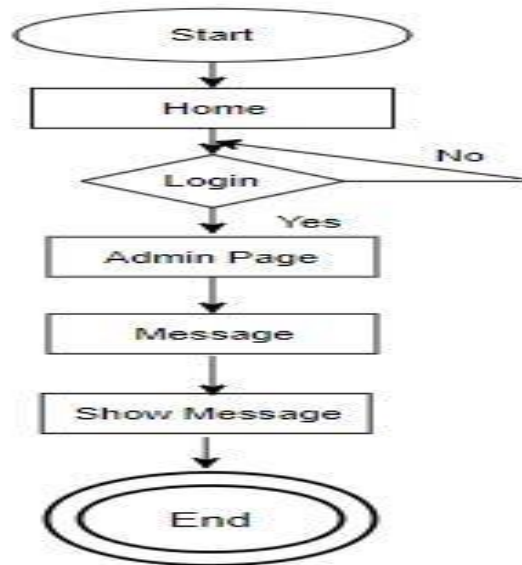


Figure3.3.4 View message activity diagram

3.3.5 Create post Activity Diagram

This activity diagram explain how user can create post for adoption and donation

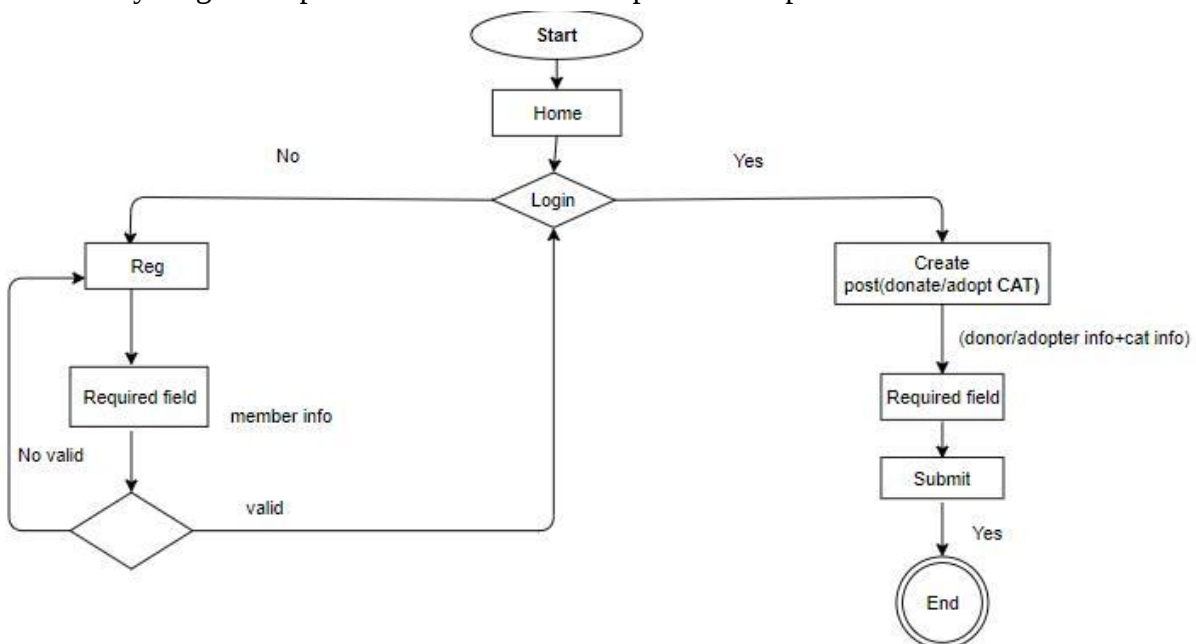
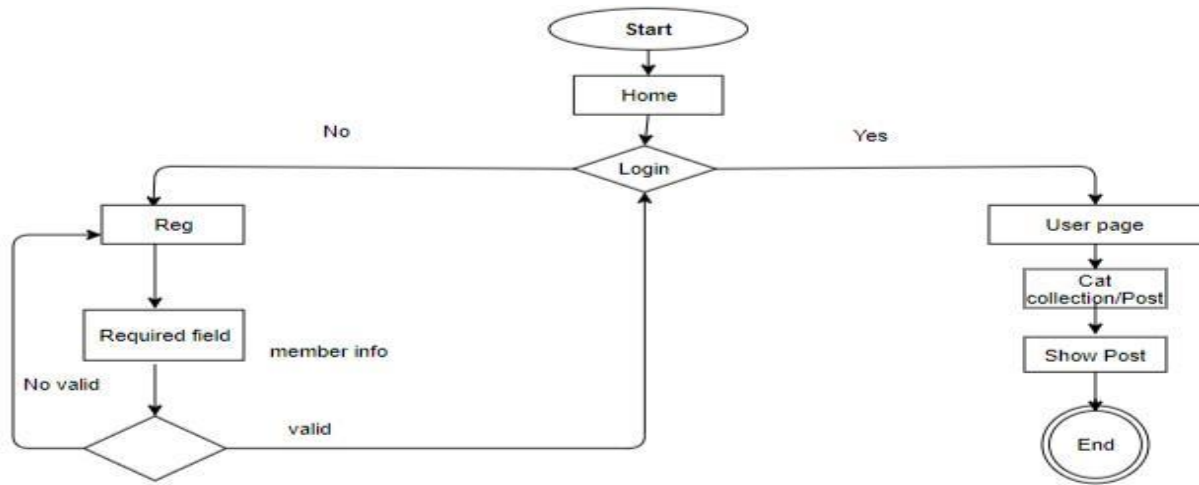


Figure3.3.5 Create post Activity Diagram

3.3.6View Post Activity diagram

This activity explain how user can show the post of adoption and donation



3.3.6View Post Activity diagram

3.3.7Search Post Activity diagram

This activity explain how user can search post as per her choice

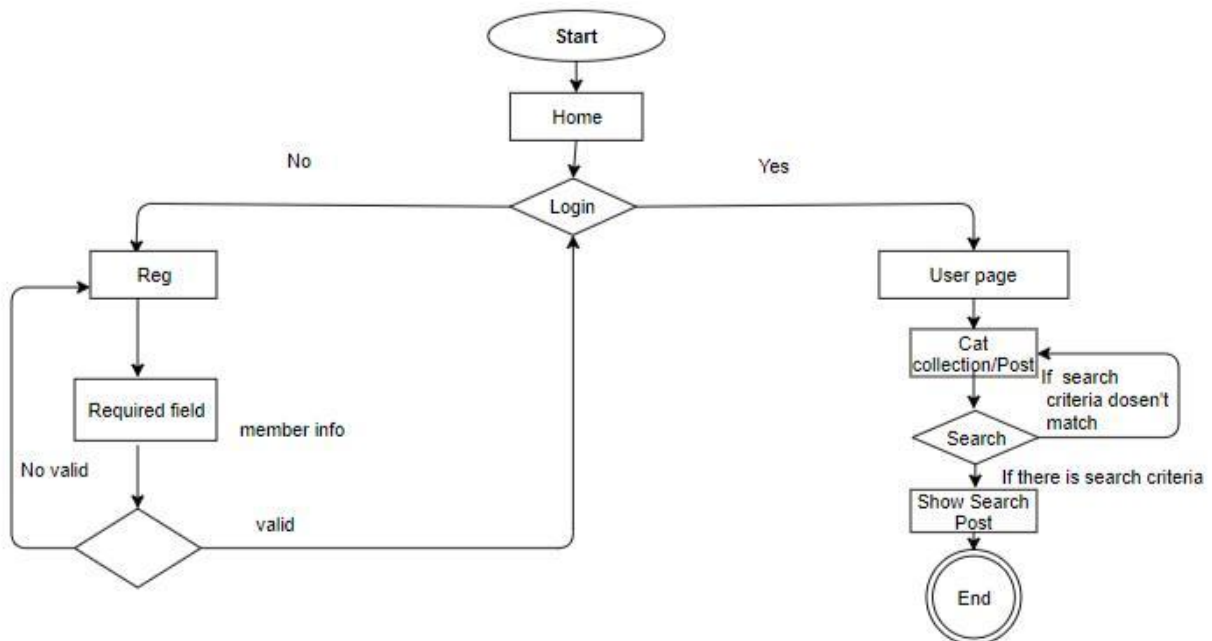


Figure3.3.7Search post Activity diagram

3.3.8 Give message activity diagram

This Activity explain how user can give message to admin for any query

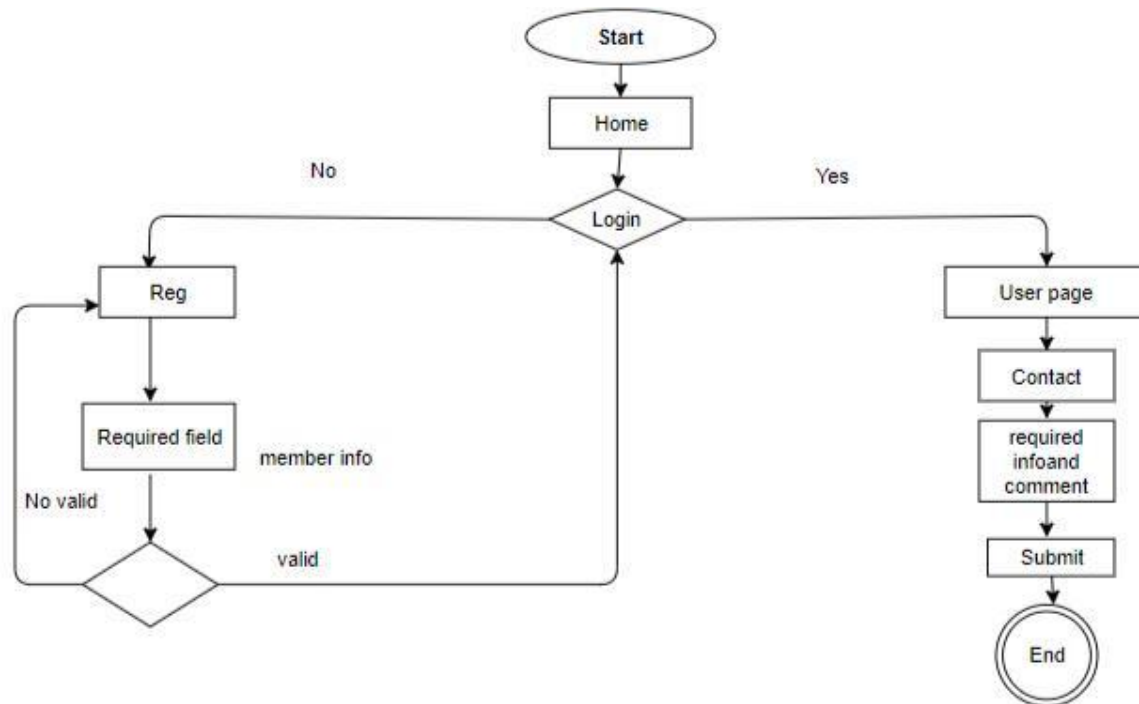


Figure:3.3.8 Give message activity Diagram

3.4 System Sequence Diagram

Sequence Diagram show the process in sequential way that it's actor done.

3.4.1 Create and view post sequence diagram

In this picture describe user work sequence website to database. A user can request for registration, login, create post, view post and all these 1st go to the website than check in database. If the request is valid than website get confirmation and success

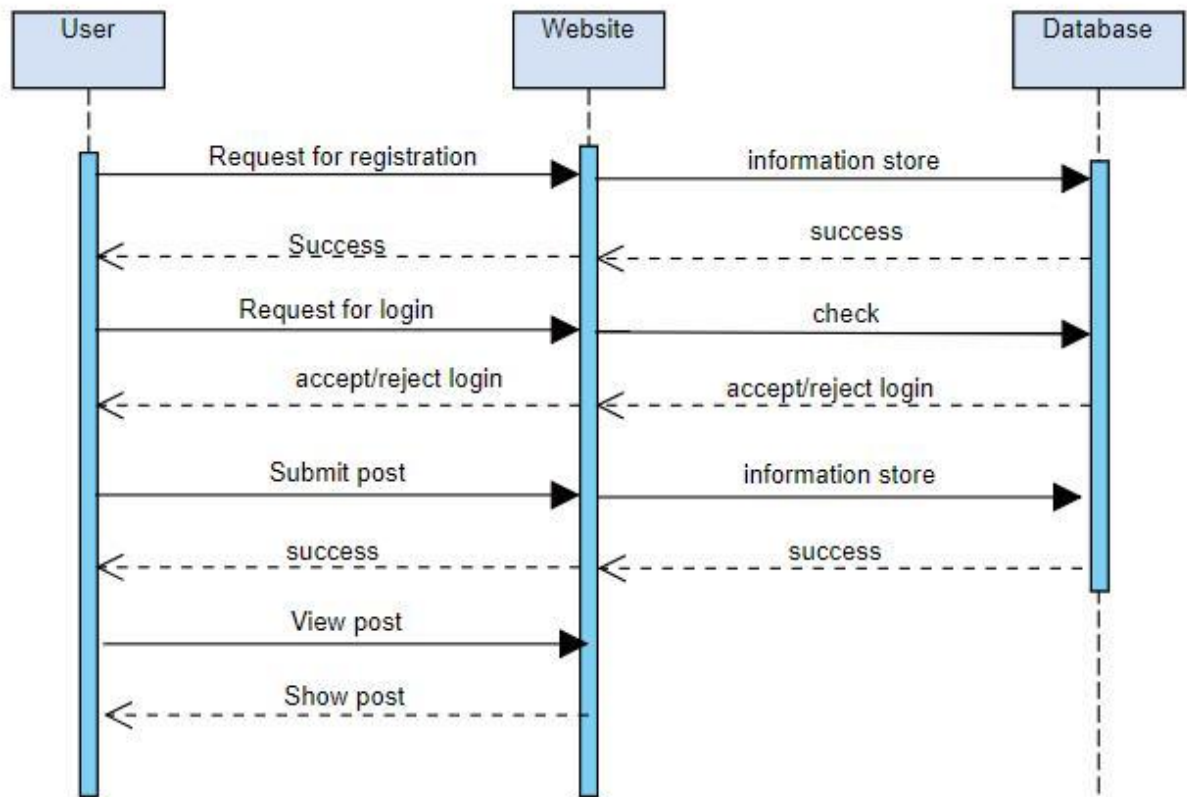


Figure 3.4.1 Create post and view post sequence diagram

3.4.2 View post and search post sequence diagram

In this picture describe the user work sequence website to database. A user can request for registration, login, view post, search post, and all these 1st go to the system than check in database. If the request is valid than website get confirmation and website confirm the user

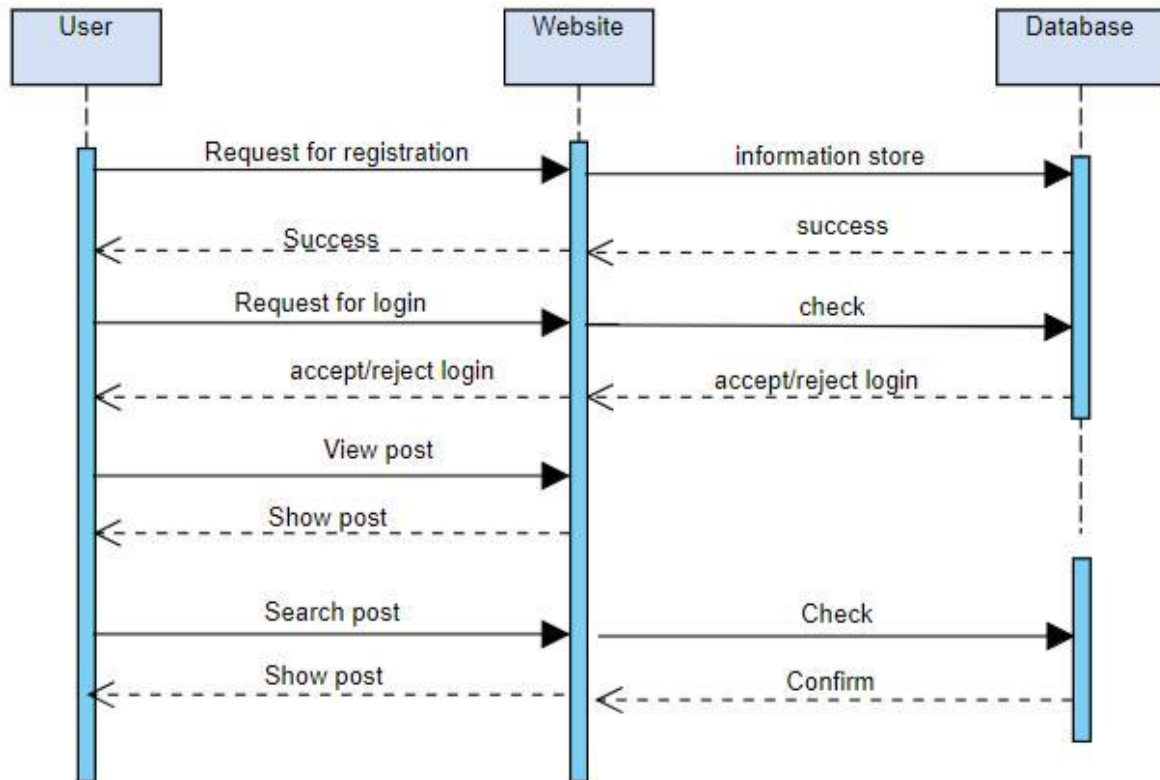


Figure-3.4.2: View post and search Sequence Diagram

Chapter-4

System Design specification

4.3 Class diagram

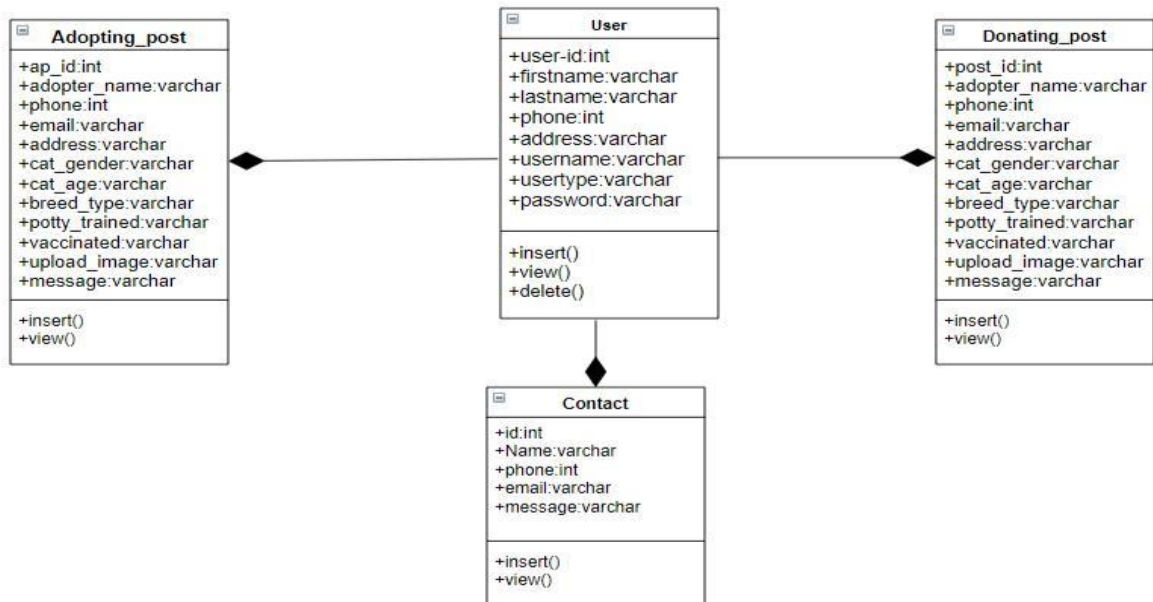


Figure4.3Class diagram

4.4 Database Diagram

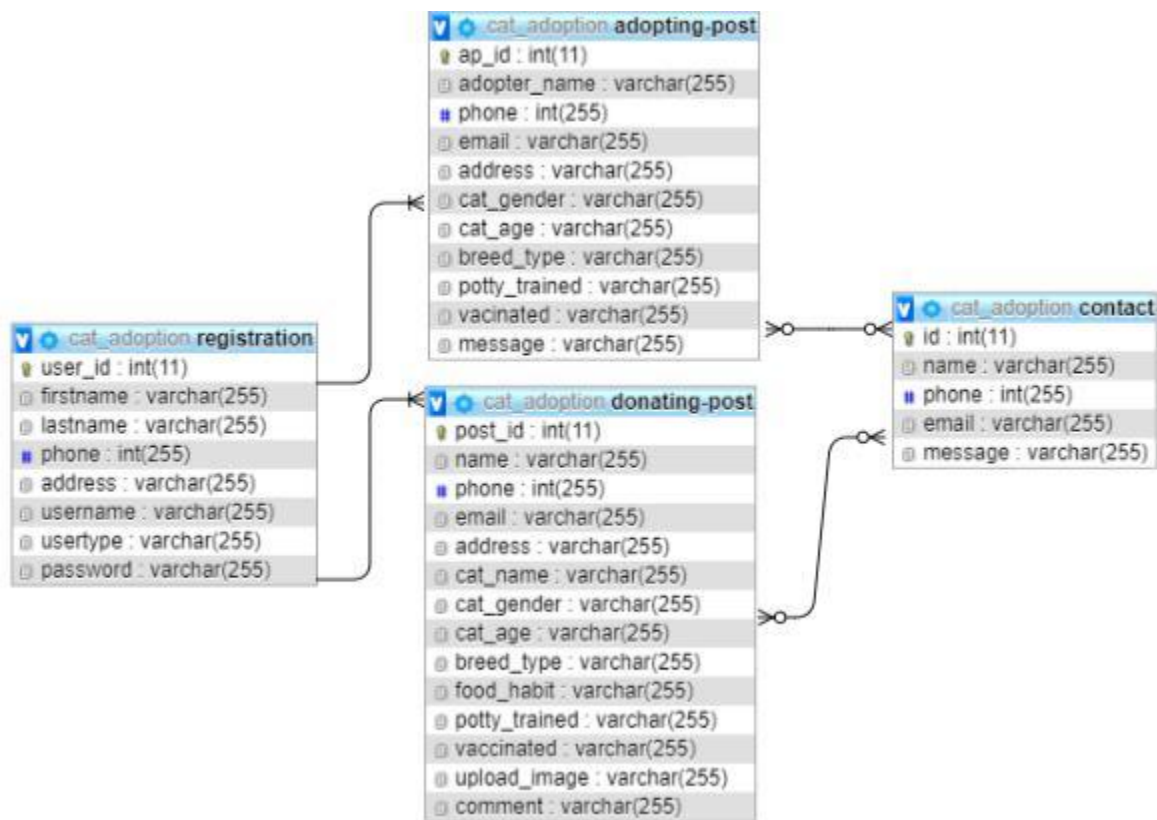


Figure4.4 Database Diagram

4.5 Development Tools And technology

Without using tools, development of software is impossible. There are many tools that I have used to develop this software

4.5.1 User interface technology

User interface (UI) is everything designed into a system view that which person's associates with this system may like the interface of this system

4.5.1.1 CSS

CSS is a language that describes the style of an HTML document. CSS describes how HTML elements should be displayed. Build responsive, mobile-first projects on the web with the world's most popular front-end component library. Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mix INS, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

After adding some classes to existing elements in the HTML-code and altering some CSS code such as removing some values for width given in pixels the site was changing depending on the width of the window.

4.5.1.2 Programming Language

For developing this system I have use PHP as a programming language. PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages.

4.6 Implemented tools and platform

The order of execution may vary depending upon the person developing the plan. Some people do better with looking at lots of tools and asking themselves “How can I use these tools to accomplish my goals and which ones do I use?” While others may look at tactics that have been tried and proven successful and determine which tactics best apply to them and their goals. And, many start with developing a sound strategy, then determine which tactics and tools best suits their needs to accomplish their goals.

4.6.1 IDE

I have used sublime as an IDE for developing this project. Sublime Text is a [proprietary cross-platform source code editor](#) . It natively supports many [programming languages](#) and [markup languages](#), and functions can be added by users with [plugins](#), typically community-built and maintained under [free-software licenses](#). [5]

4.6.2Web Server

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

The Apache HTTP Server was launched in 1995 and it has been the most popular web server on the Internet since April 1996. It has celebrated its 20th birthday as a project in February 2015. The Apache http server is the world's most used web server software.

4.6.3Database server

mysql is an open-source relational database management system (RDBMS). I have used mysql database to store data of my projects data. Because this database server provides huge storage and this server is very easy to use.

Chapter-5

System Testing

5.1 Testing Feature

Feature testing is the process of making changes in software system to add one or more new features or to make modifications in the already existing features. Each of these feature is said to have a characteristics that is designed to be useful, intuitive, and effective.

5.1.1 Features to Be Tested

Features	Descriptions
Registration	Registration as a user
Login	Login as authenticated user
Logout	Logout from the system
Donate cat	Fulfill required info
Adopt cat	Fulfill required info

5.2 Testing Strategies

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests. Different testing strategies may be adopted depending on the type of system to be tested and the development process used.

5.2.1 Test approach

A test approach is the test strategy implementation of a project, defines how testing would be carried out. Test approach has two techniques:

Proactive - An approach in which the test design process is initiated as early as possible in order to find and fix the defects before the build is created.

Reactive - An approach in which the testing is not started until after design and coding are completed.

5.2.1 Pass / Fail Criteria

The entrance criteria for each phase of testing must be met before the next phase can commence. Now the criteria for pass and fail are given below.

- According to the given scenario the expected result need to take place then the scenario will be considered as pass otherwise that criteria should be failed
- If an item tested 10 times, 9 times perfectly worked and single time do not work properly then it will consider as fail case.
- System crash will be considered as fail case.
- After submitting a query in the system, if expected page won't appear then it will be considered as fail case.

5.3 Testing Environment

Testing environment is a setup of software and hardware for the testing teams to execute test cases. In other words, it supports test execution with hardware, software and network configured. For test environment, key area to set up includes

- System and applications
- Test data
- Database server
- Front end running environment
- Client operating system
- Browser
- Hardware includes Server Operating system
- Network
- Documentation required like reference documents/configuration guides/installation guides/ user manuals

5.4 Test case

A test case is a document, which has a set of test data, preconditions, expected results and post conditions, developed for a particular test scenario in order to verify compliance against a specific requirement

Table 5.4.1: Test case for user Registration

Test Case ID: TC 01			Module Name: Registration			
Sub Module: User Registration			Test Designed by: FarhanaArnika			
Test Priority (Low/Medium/High): High			Test Designed date: 18.11.2018			
Test Title: User Registration with valid information			Test Executed by: FarhanaArnika			
Description: Test the system’s on registration page			Test Execution date: 29.11.2018			
Pre-condition: The user navigate to registration page and input the required filled. And click on the Register button.						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Input first name	Arnika	Registration.php	User should be registered successfully	User navigate or redirect to home page	Pass
2	Input last-name	Anni				
3	Input phone	01720164143				
4	Input address	Dhaka				
5	Input username	Arnikagmail.com				
6	Input user type	Admin				
7	Input password	1221				
Post-conditions: if the user information’s are valid then the information will saved in the database otherwise show the invalid fields						

Table 5.4.2: Test case for user Login

Test Case ID: TC 02			Module Name: Login			
Sub Module: User Login			Test Designed by:FarhanaArnika			
Test Priority (Low/Medium/High): High			Test Designed date: 15.11.2018			
Test Title: User Login with valid email/user name and password			Test Executed by:FarhanaArnika			
Description: Test the system's on login page			Test Execution date: 29.11.2018			
Pre-condition:The user has valid email and password. The current email is mrittikaa@gmail.comand password5555. The system navigates to Login page. And click on the Login button.						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to Login Page	Click on login tab	Login .php	User should be able to login successfull y	User navigate to home page	Pass
2	Input username	Mrittika@gmail.com				
3	Input password	5555				
Post-conditions:User is validated with database and successfully login to account. The account session details are logged in database						

5.4.3Test Case for User Login Failed

Test Case ID: TC 03			Module Name: Login			
Sub Module: User Login			Test Designed by: FarhanaArnika			
Test Priority (Low/Medium/High): High			Test Designed date: 15.11.2018			
Test Title: User Login with valid email/user name and password			Test Executed by: FarhanaArnika			
Description: Test the system's on login page			Test Execution date: 29.11.2018			
Pre-condition: The user has valid email and password. The current email is mrittikaa@gmail.comand password5555. The system navigates to Login page. And click on the Login button.						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to Login Page	Click on login tab	Login .php	User should not be able to login	User navigate or redirect to the login page with error message page	Fail
2	Input username	Mrittika@gmail.com				
3	Input password	5333				
Post-conditions: User is validated with database and successfully login to account. The account session details are logged in database						

Table 5.4.4: Test case for admin Login

Test Case ID: TC 04			Module Name: Login			
Sub Module: User Login			Test Designed by:Farhana Arnika			
Test Priority (Low/Medium/High): High			Test Designed date: 15.11.2018			
Test Title: Admin Login with valid email/user name and password			Test Executed by: Farhana Arnika			
Description: Test the system's on login page			Test Execution date: 29.11.2018			
Pre-condition: The Admin has valid email and password. The current email is arnikaa@gmail.comand password1234supergirl. The system navigates to Login page. And click on the Login button.						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to Login Page	Click on login tab	Login .php	Admin should be able to login successfull y	Admin navigate to admin page	Pass
2	Input username	arnika@gmail.com				
3	Input password	1234supergirl				
Post-conditions:Admin is validated with database and successfully login to account. The account session details are logged in database						

Table 5.4.5: Test case for adminLogin failed

Test Case ID: TC 05			Module Name: Login			
Sub Module: Admin Login			Test Designed by:FarhanaArnika			
Test Priority (Low/Medium/High): High			Test Designed date: 15.11.2018			
Test Title: Admin Login with valid email/user name and password			Test Executed by:FarhanaArnika			
Description: Test the system's on login page			Test Execution date: 29.11.2018			
Pre-condition:The user has valid email and password. The current email is arnika@gmail.comand password1234supergirl. The system navigates to Login page. And click on the Login button.						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to Login Page	Click on login tab	Login .php	User should not be able to login	Admin navigate or redirect to the admin page with error message	Fail
2	Input username	arnika@gmail.com				
3	Input password	1234girl				
Post-conditions:Admin is validated with database and successfully login to account. The account session details are logged in database						

Table 5.4.6: Test case for Donate cat

Test Case ID: TC 06			Module Name: Donate cat			
Sub Module: Donor Create post			Test Designed by:FarhanaArnika			
Test Priority (Low/Medium/High): High			Test Designed date: 18.11.2018			
Test Title: User Login with valid email/user name and password. Then Full fill the required all field.			Test Executed by:FarhanaArnika			
Description: Test the system's donate cat page			Test Execution date: 29.11.2018			
Pre-condition:The user has valid email and password. The current email is jannat@gmail.comand password 12345678. The system navigates to Login page. And click on the Login button. .						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to donate cat Page	Click donate cat tab	Donate-cat .php	Cat donor success fully create post.	Cat donor see successful message & redirect to the profile page	Pass
2	Input cat name(if have	mini				
3	Input cat gender	Female				
4	Input cat age	kitten				
5	Input cat breed type	Scottis fold				
6	Input cat food type	Dry				
7	Input cat potty-trained	Yes				
8	Input cat vaccinated	No				
9	Input cat image	Cat2.jpg				
10	Input comment about cat	She is very well trained				
11	Input cat owner contac	Userid:2,jannat@gmail.com				
Post-conditions:Cat donor is validated with database and successfully login to account. The account session details are logged in database						

Table 5.4.7: Test case for donate cat failed

Test Case ID: TC 07				Module Name: Donate cat		
Sub Module: Donor Create post				Test Designed by: FarhanaArnika		
Test Priority (Low/Medium/High): High				Test Designed date: 18.11.2018		
Test Title: User Login with valid email/user name and password. Then Full fill the required all field.				Test Executed by: FarhanaArnika		
Description: Test the system’s donate cat page				Test Execution date: 29.11.2018		
Pre-condition: The user has valid email and password. The current email is jannat@gmail.comand password 12345678. The system navigates to Login page. And click on the Login button. .						
Step	Test step	Test data	Code module	Expected result	Actual Result	Pass/fail
1	Navigate to donate cat Page	Click on donate cat tab	Donate-cat .php	Cat donor can’t success fully create post.	Cat donor see image field is error	failed
2	Input cat name(if have	mini				
3	Input cat gender	Female				
4	Input cat age	kitten				
5	Input cat breed type	Scottis fold				
6	Input cat food type	Dry				
7	Input cat potty-trained	Yes				
8	Input cat vaccinated	No				
9	Input cat image	Cat2.gpg				
10	Input comment about cat	She is very well trained				
11	Input cat owner contac	Userid:2,jannat@gmail.com				
Post-conditions: Cat donor is validated with database and successfully login to account. The account session details are logged in database						

Chapter-6
User Manual

6.1 Home Page

To enter on donate cat or adopt cat first you should go to home page for doing login and registration



Figure6.1 Home Page

6.2 Registration Page

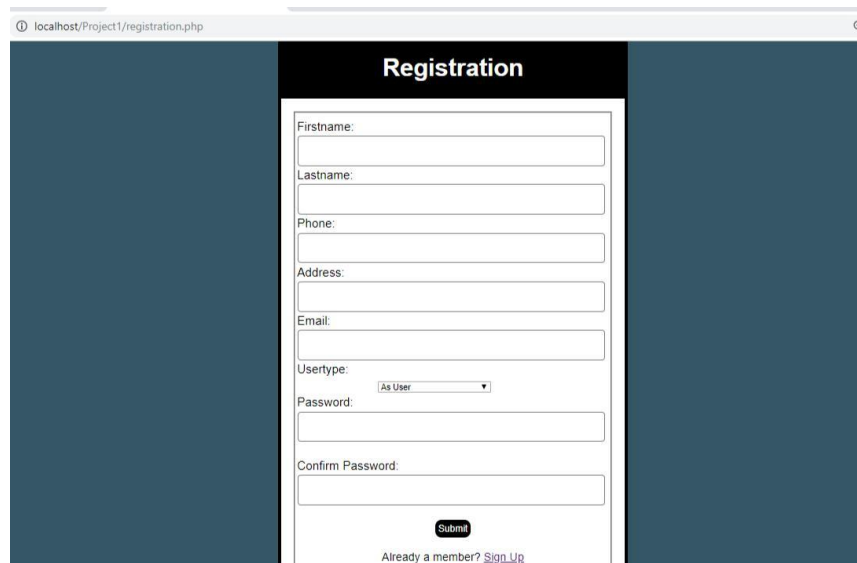
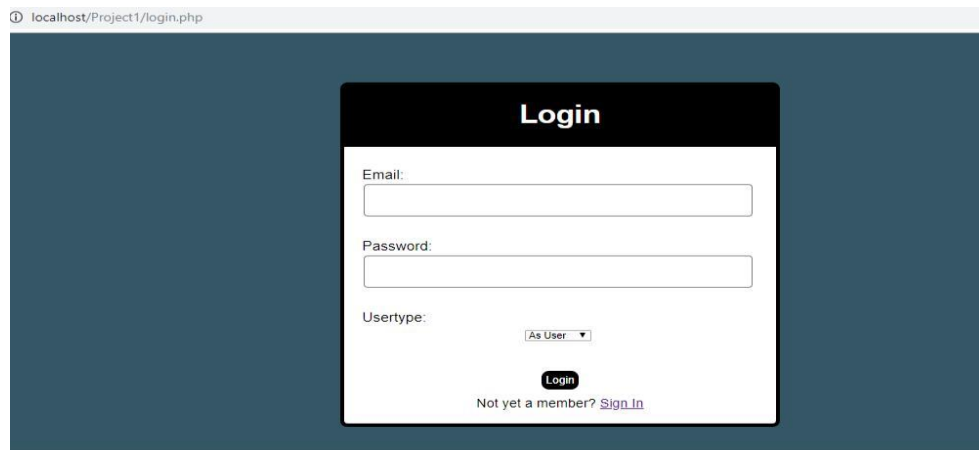
The screenshot shows a web browser at localhost/Project1/registration.php. The page has a dark blue background with a central white registration form. The form is titled "Registration" in bold. It contains input fields for Firstname, Lastname, Phone, Address, Email, Usertype (a dropdown menu with "As User" selected), Password, and Confirm Password. A "Submit" button is at the bottom of the form. Below the button, there is a link that says "Already a member? Sign Up".

Figure6.2 Registration Page

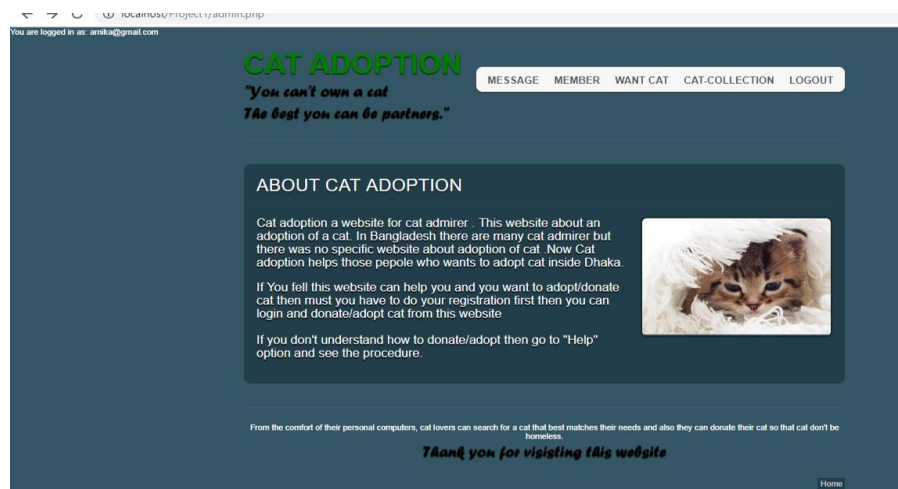
6.3 Login Page



The screenshot shows a web browser window with the address bar displaying 'localhost/Project1/login.php'. The main content area has a dark blue background. In the center, there is a white rectangular box with a black border. At the top of this box, the word 'Login' is written in white. Below it, there are three input fields: 'Email:', 'Password:', and 'Usertype:'. The 'Usertype:' field has a dropdown menu with 'As User' selected. Below the input fields, there is a black button with the word 'Login' in white. At the bottom of the box, it says 'Not yet a member? [Sign In](#)'.

Figure6.3Login page

6.4 Admin Page



The screenshot shows a web browser window with the address bar displaying 'localhost/Project1/admin.php'. The main content area has a dark blue background. At the top, there is a green banner with the text 'CAT ADOPTION' and a quote: 'You can't own a cat The best you can be partners.' Below the banner, there is a navigation bar with links: MESSAGE, MEMBER, WANT CAT, CAT-COLLECTION, and LOGOUT. The main content area is divided into two columns. The left column has the heading 'ABOUT CAT ADOPTION' and text: 'Cat adoption a website for cat admirer . This website about an adoption of a cat. In Bangladesh there are many cat admirer but there was no specific website about adoption of cat. Now Cat adoption helps those pepole who wants to adopt cat inside Dhaka. If You fell this website can help you and you want to adopt/donate cat then must you have to do your registration first then you can login and donate/adopt cat from this website. If you don't understand how to donate/adopt then go to "Help" option and see the procedure.' The right column has a small image of a cat. At the bottom, there is a footer with the text: 'From the comfort of their personal computers, cat lovers can search for a cat that best matches their needs and also they can donate their cat so that cat don't be homeless. Thank you for visigting this webgite' and a 'Home' link.

Figure6.4Admin Page

6.5 Member Page

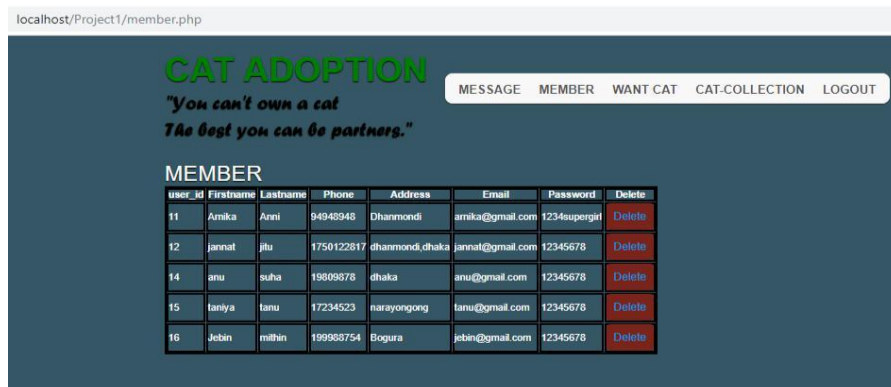


Figure 6.5 Member page

6.6 Message.php



Figure 6.6 Message page

6.7 User Page

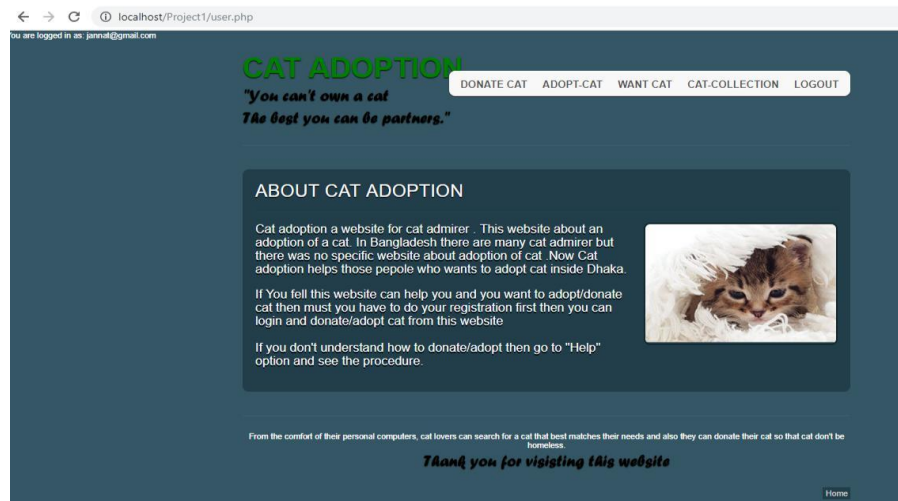


Figure 6.7 User Page

6.8 Donate Cat Page

From this page user can create post for donate cat

Figure 6.9 Donate Cat Page

6.9Cat Collection Page

From this page user can show Post for adopt Cat, and search post as per choice

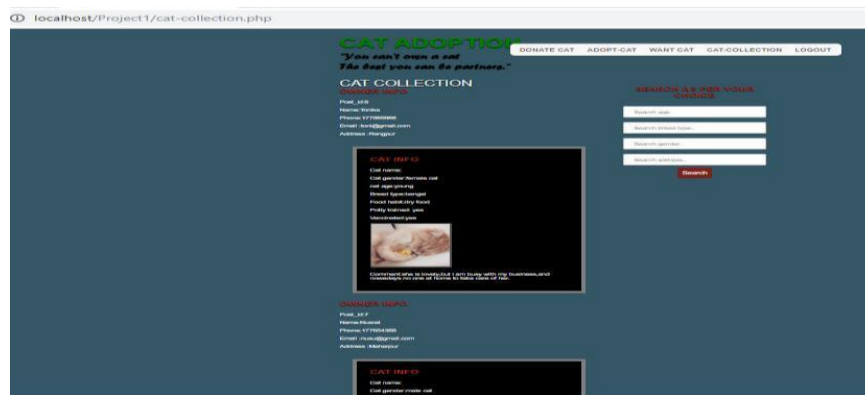


Figure6.9Cat collection page

Chapter-7
Project Summery

7.1Github Link

7.2 Project Summary:

This project has been started from September. From that beginning time I have to work hard to know the requirement clearly. After that I proposed a design to them by help of my supervisor. I started to develop the project. From then I gradually develop the project. I think storing the data in database neatly is very important. That's why I did this first and made a relationship with the tables. After that I design the UI. This project's UI is very simple and clean which is very help for the user's experience. Then I started coding and executing the project. If I did not test this project, there will stay some bug on this project which will ruin the full project. That why give importance to test this project and then I solved some bug which I got after testing this project.

7.3 Limitations:

- Password is to encrypted
- Donor Current Location can't track
- Not Fully Responsive

7.3Obstacles and Achievements

We think we face less obstacles and archive more success. We build this website for cat lovers.

7.4FUTURE IMPROVEMENT

This website avoids the manual work and the problems concern with it. Well I have worked hard in order to present the website. Still, I found out that the project can be done in a better way. Due to time and technology concern I am unable to deploy the current location trace and notification send the cat adopter or donor phone and other small features.

For that reason, I am going to develop new features like following:

- Real Time Location Trace
- Send Notification to the Donor or adopter

Reference:

1. <https://www.facebook.com/catloversbd/> [1] Access Date:04-09-2018
2. <https://www.facebook.com/bdcatlover/> [2] Access Date:04-09-2018
3. https://www.facebook.com/groups/1330440243677548/?ref=br_rs[3] Access Date:04-09-2018
4. www.google.com [4] Access Date:04-09-2018-7-12-2018
5. www.wikipedia.com [5] Access Date:02-012-2018
6. www.w3schools.com [6] Access Date:10-09-2018-29-11-2018
7. www.php.net[7] Access Date:10-09-2018-29-11-2018
8. www.youtube.com[8] Access Date:04-09-2018-29-11-2018