



# **Daffodil International University**

**Department of Software Engineering, FSIT**

**SWE-431 Project / Thesis**

**Project Documentation**

**Online Pet Care**

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## Approval

This Project titled “**Online Pet Care**”, submitted by Mazed Mourshed (152-35-1215) 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 content.

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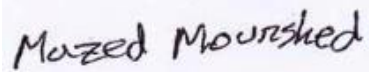
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## DECLARATION

I hereby declare that, this project has been done by me under the supervisor of **Ms. Syeda Sumbul Hossain**, Senior Lecturer, Department of Software Engineering, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree of diploma.



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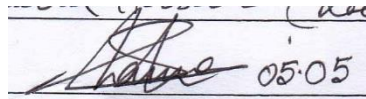
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I want to express our heartiest gratitude to Head, Department of swe, for encouraging me and providing me with such an opportunity.

I am grateful to my parents as well as family members for their understanding, encouragement and endless support throughout the duration of my studies. I would like to extend my best wishes to all the teachers, friends and staff member of our department.

## **Abstract**

This project is a web based caring system for an existing pet. Through the system, user can easily get their pet health care. They can get advice from the doctor for their pet. As a result, they will not go to the trouble of hospital, they will get the benefit off the doctor through this system. As a result, many of them valuable time can be saved. They can easily take the doctor's appointment through this system. The doctor can give proper advice to the patient about the illness of the disease.

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# **Chapter 01: Introduction**

## **1.1 Introduction**

This section gives an overview of everything included in this project and discusses some of the benefits.

## **1.2 Purpose**

Through this document, the project “Online Pet Care” will get a good idea. This document is main purpose is given a good idea for user and their work. This document will highlight the benefits of the project. This document will discuss the requirements, design, implementation and testing.

## **1.3 Project Overview**

In this time technology in updated day by day and various uses technology for their own advantage. This digital era our data is increasing. And we use technology to control these data. The number of pet owner and doctor growing day by day and to maintain a good relation between them and also to keep their data safe, we need to have an application.

Pet owner can get avail from this system. Through this system pet owner can easily get service for their pet. There are good communication between the pet owner and the doctor, as a result pet will greatly benefited. The main aim of this project provide for pet’s health services.

## **1.4 Problem Statement**

Some time we thinking about the traffic we do not take it doctor chamber for the minor disease of our pet. We cannot understand the lack of proper advice what is right or what is wrong for our pet. If we go to work anywhere, we don’t understand where our pets will keep. For a small mistake, our pet’s life becomes very risky. So to avoid these problems, do help my project.

## **1.5 Goals**

The main goals of this project are to the web-based application. Most people are now dependent on online, but pet health website in Bangladesh is very limited. Any health related information for the pet, many trouble going to the health center. So I think this project “Online Pet Care” will be useful for many people.

## 1.6 Project Scope

Through this system, you can easily get the doctor service for your pet. If you feel your pet health bad you can apply for a doctor's appointment. Pet owner very easily can get advice for this system. If the pet owner wants, he will be able to reservation his pet for some times or some days.

## 1.7 Stakeholders

There are three types of stakeholders in "Online Pet Care" project. Such as:

- Pet owner.
- Doctor.
- Admin.

Brief descriptions about stakeholders are given below.

**Pet owner:** Pet owner can request a doctor appointment. They can add their own pet information and view their own pet information. They can view all doctor detailed profile. Pet owner can request seat reservation.

**Doctor:** Doctor can view own doctor appointment and doctor send for a confirmation mail. The doctor can view applicant pet information.

**Admin:** Admin can view pet owner and doctor information and admin can delete pet owner and doctor information. Admin can view doctor appointment and seat reservation. If he wishes can accept or reject doctor appointment and seat reservation.

## 1.8 Project Schedule

Table 1.8: Project schedule

| Activities             | Duration (in week)                | Total week |
|------------------------|-----------------------------------|------------|
| Brainstorming          | Week-1, Week-2                    | 2          |
| Problem identification | Week-2, Week-3                    | 2          |
| Requirement analysis   | Week-4                            | 1          |
| Sketching              | Week-5                            | 1          |
| Design specification   | Week-6, Week-7                    | 2          |
| Database design        | Week-8                            | 1          |
| Implementation         | Week-9, Week-10, Week-11, Week-12 | 4          |
| Testing                | Week-13, Week-14, Week-15         | 3          |
| Delivery               | Week-16                           | 1          |

## 1.9 Release Plan

The release plan is given below:

Table 1.9: Release plan

| <b>Version</b> | <b>Feature</b>  | <b>Date</b> |
|----------------|---|-------------|
| V0.1           | System design, Multiple login   | 31-01-2019  |
| V0.2           | Request doctor appointment, Request seat reservation, Manage user, View all information, Appointment conformation mail. | 04-05-2019  |

# **Chapter 2: System Analysis**

## 2.1 Requirement Analysis

Requirement analysis is a process of help user needs for application. Requirement analysis involves the task that decides the needs of the software, which mainly incorporates objections and requirements of different customer. Requirement analysis needs to the good quality of the application.

## 2.2 Requirement Gathering

There are many strategies for collecting requirement gathering, such as brainstorming, questionnaires, interview and customer observation.

I first meet the supervisor and made a list of the requirement. I've talked about my project with different users and I've got work from them.

## 2.3 Feature

- Password protected login system
- Pet owner request doctor appointment
- Pet owner request seat reservation
- Pet owner view request appointment and print or save appointment
- Doctor send mail for accept/reject appointment
- Pet owner view doctor information
- Doctor view pet owner information
- Search doctor information
- Admin delete all user information
- Pet owner add pet information
- Comment user
- Pet owner view own pet information
- Password forget with email verification



## 2.4 Requirement Specification

### 2.4.1 Functional Requirement

Functional requirements are mandatory for the any system. For this system functional requirements are mentioned below.

Table 2.5.1.1: Login User

| ID: FR-01   |
|---|
| <b>Requirement Name:</b> Login User   |
| <b>Description:</b> User can input valid email and password then user successfully login. |
| <b>Stockholders:</b> Pet owner, Doctor, Admin   |

Table 2.5.1.2: Logout User

| ID: FRQ-02  |
|---|
| <b>Requirement Name:</b> Logout User  |
| <b>Description:</b> If the user is logged out then user session detail clear. |
| <b>Stockholders:</b> Pet owner, Doctor, Admin                                 |

Table 2.5.1.3: User registration

| ID: FRQ-03  |
|---|
| <b>Requirement Name:</b> User registration  |
| <b>Description:</b> User input valid information then user successfully registered. |
| <b>Stockholders:</b> Pet owner, Doctor  |

Table 2.5.1.4: Request Doctor Appointment

|   |
|---|
| ID: FRQ-04  |
| <b>Requirement Name:</b> Request Doctor Appointment   |
| <b>Description:</b> If pet owner want to request doctor appointment then input valid information and click submit button. |
| <b>Stockholders:</b> Pet owner  |

Table 2.5.1.5: Accept/reject Appointment

|  |
|--|
| ID: FRQ-05   |
| <b>Requirement Name:</b> Accept/reject Appointment           |
| <b>Description:</b> Doctor can accept or reject appointment. |
| <b>Stockholders:</b> Doctor                                  |

Table 2.5.1.6: View Doctor Information

|   |
|---|
| ID: FRQ-06  |
| <b>Requirement Name:</b> View Doctor Information                  |
| <b>Description:</b> If pet owner want to view doctor information. |
| <b>Stockholders:</b> Pet owner                                    |

Table 2.5.1.7: View pet information

|  |
|--|
| ID: FRQ-07   |
| <b>Requirement Name:</b> View pet information                      |
| <b>Description:</b> Doctor/pet owner want to view pet information. |
| <b>Stockholders:</b> Pet owner, Doctor                             |

Table 2.5.1.8: Search doctor information

|  |
|--|
| ID: FRQ-08   |
| <b>Requirement Name:</b> Search doctor information                                   |
| <b>Description:</b> If user want to find doctor then user search doctor information. |
| <b>Stockholders:</b> Registered/Non-registered user                                  |

Table 2.5.1.9: Request Seat Reservation

|   |
|---|
| ID: FRQ-09  |
| <b>Requirement Name:</b> Request Seat Reservation     |
| <b>Description:</b> Pet can request seat reservation. |
| <b>Stockholders:</b> Pet owner                        |

Table 2.5.1.10: Comment User

|                                       |
|---------------------------------------|
| ID: FRQ-10                            |
| <b>Requirement Name:</b> Comment User |
| <b>Description:</b> User can comment. |
| <b>Stockholders:</b> Doctor, Admin    |

Table 2.5.1.11: Admin delete user information

|  |
|--|
| ID: FRQ-11   |
| <b>Requirement Name:</b> Admin delete user information |
| <b>Description:</b> Admin can delete information.      |
| <b>Stockholders:</b> Admin                             |

## 2.5.2 Non-Functional Requirement

For this system non-functional requirements are mentioned below.

Table 2.5.2.1: Privacy

|   |
|---|
| ID: FRQ-1   |
| <b>Requirement Name:</b> Privacy.   |
| <b>Description:</b> System has to protect user data and confidential information. |
| <b>Stockholders:</b> All users.   |

Table 2.5.2.2: Data Capacity

|   |
|---|
| ID: FRQ-2   |
| <b>Requirement Name:</b> Data Capacity.                           |
| <b>Description:</b> This system need to handle thousands of data. |
| <b>Stockholders:</b> Doctor, Pet owner.                           |

Table 2.5.2.3: Interface Requirement.

|   |
|---|
| ID: FRQ-3   |
| <b>Requirement Name:</b> Interface Requirement.                   |
| <b>Description:</b> System should be user friendly for all users. |
| <b>Stockholders:</b> All users.                                   |

## 2.6 Use case of proposed system

### 2.6.1 Use-case Diagram

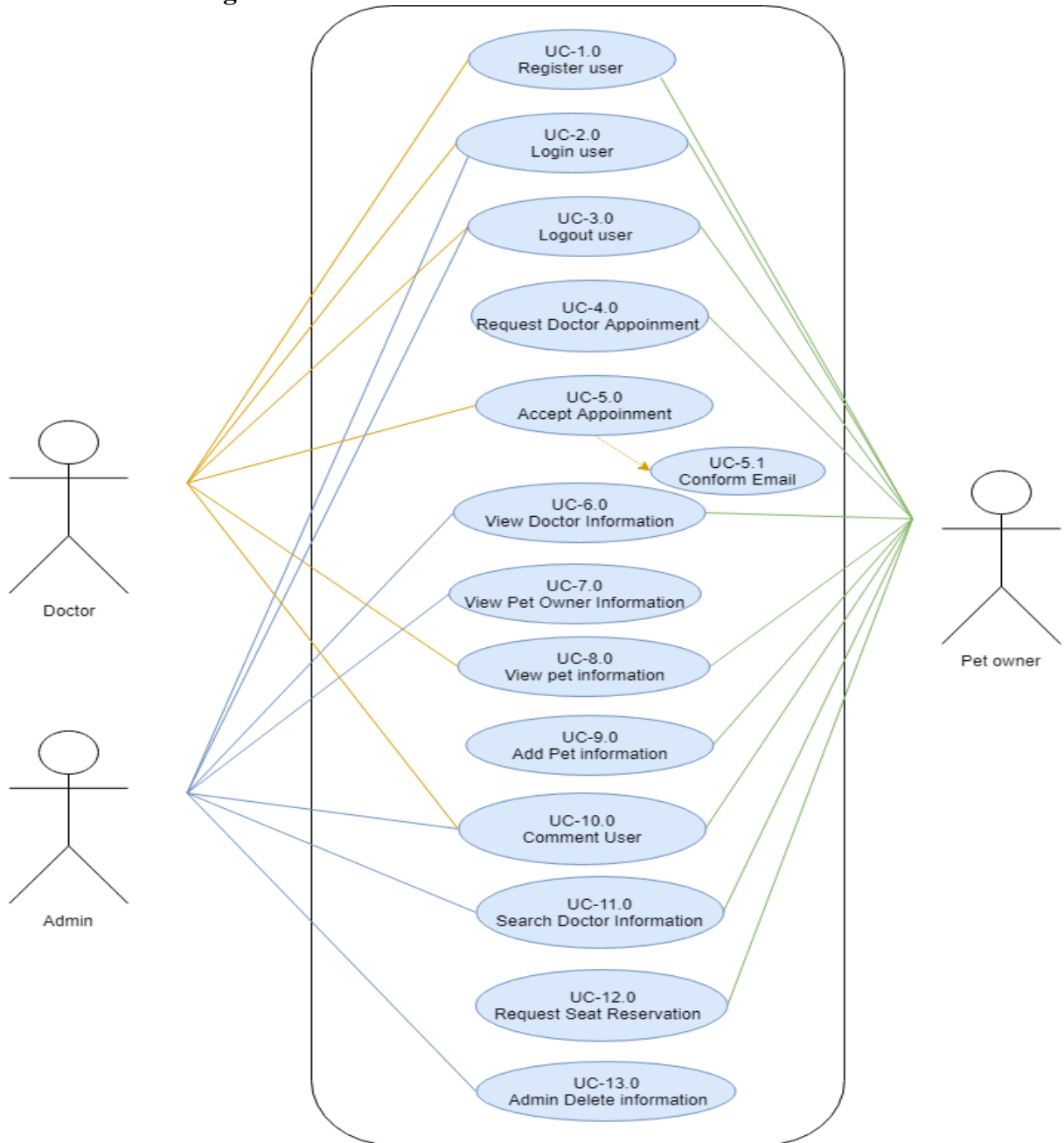


Figure 2.6.1: Use-case diagram

## 2.6.2 Use-Case Table

Table 2.6.2.1: Register User

|                              |   |
|------------------------------|---|
| <b>Use Case Title</b>        | <b>Register User</b>  |
| <b>Use Case ID</b>           | Uc-1.0  |
| <b>Preconditions</b>         | User select the register form and fill up it.                         |
| <b>Actors</b>                | Pet Owner, Doctor   |
| <b>Success End Condition</b> | User successfully register  |
| <b>Failure End Condition</b> | Display register error message “ ”                                    |
| <b>Trigger</b>               | Show user home page.  |
| <b>Description</b>           | After all requirement field fill up user can register for the system. |

Table 2.6.2.2: Login User

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Login User</b>  |
| <b>Use Case ID</b>           | Uc-2.0   |
| <b>Preconditions</b>         | 1. User must be registered.<br>2. User select the login form and fill up it. |
| <b>Actors</b>                | Pet Owner, Doctor, Admin   |
| <b>Success End Condition</b> | User successfully Login.   |
| <b>Failure End Condition</b> | Display login error message “ ”  |
| <b>Trigger</b>               | Show the user home page.   |
| <b>Description</b>           | After the user login then user can see the homepage and many option.         |

Table 2.6.2.3: Logout User

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Logout user</b>   |
| <b>Use Case ID</b>           | Uc-3.0   |
| <b>Preconditions</b>         | User must be login.  |
| <b>Actors</b>                | Pet Owner, Doctor, Admin   |
| <b>Success End Condition</b> | User successfully Logout.  |
| <b>Failure End Condition</b> | User not successfully Logout.  |
| <b>Trigger</b>               | Show the home page.  |
| <b>Description</b>           | If the user is logged out then users will need to log in again to go to the user page. |

Table 2.6.2.4: Request Doctor Appointment

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Request Doctor Appointment</b>  |
| <b>Use Case ID</b>           | Uc-4.0   |
| <b>Preconditions</b>         | 1. Pet Owner must be login.<br>2. Pet Owner select the doctor appointment form and fill up it. |
| <b>Actors</b>                | Pet Owner  |
| <b>Success End Condition</b> | Request successfully save database.  |
| <b>Failure End Condition</b> | Request not successfully save database.  |
| <b>Trigger</b>               | Display successfully message.  |
| <b>Description</b>           | If the user requests for doctor appointment correctly then user will be notified mail.         |

Table 2.6.2.5: Accept Appointment

|                              |   |
|------------------------------|---|
| <b>Use Case Title</b>        | <b>Accept Appointment</b>   |
| <b>Use Case ID</b>           | Uc-5.0  |
| <b>Preconditions</b>         | Doctor must be login.   |
| <b>Actors</b>                | Doctor  |
| <b>Success End Condition</b> | If doctor accept appointment then send conformation mail.                                   |
| <b>Failure End Condition</b> | If doctor not accept appointment then send reject mail.                                     |
| <b>Trigger</b>               | Display successfully message.   |
| <b>Description</b>           | If the doctor wants to take an appointment, then the doctor will send the confirmation mail |

Table 2.6.2.6: View doctor information

|                              |   |
|------------------------------|---|
| <b>Use Case Title</b>        | <b>View Doctor Information</b>  |
| <b>Use Case ID</b>           | Uc-6.0  |
| <b>Preconditions</b>         | 1. User must be login.<br>2. Pet Owner select doctor information option.  |
| <b>Actors</b>                | Pet owner, Admin  |
| <b>Success End Condition</b> | Pet owner view all doctor information.                                    |
| <b>Failure End Condition</b> | Pet owner not view all doctor information.                                |
| <b>Trigger</b>               | View the all doctor information.  |
| <b>Description</b>           | If the pet owner wants Will to be able to can see all doctor information. |



Table 2.6.2.7: View Pet Owner information

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>View Pet Owner Information</b>  |
| <b>Use Case ID</b>           | Uc-7.0   |
| <b>Preconditions</b>         | 1. Admin must be login.<br>2. Admin select pet owner information option. |
| <b>Actors</b>                | Admin  |
| <b>Success End Condition</b> | Admin view all Pet owner information.                                    |
| <b>Failure End Condition</b> | Admin not view all Pet owner information.                                |
| <b>Trigger</b>               | View the all pet owner information.                                      |
| <b>Description</b>           | Admin wants Will to be able to can see all doctor information.           |

Table 2.6.2.8: View pet information

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>View Pet Information</b>                                      |
| <b>Use Case ID</b>           | Uc-8.0   |
| <b>Preconditions</b>         | 1. User must be login.<br>2. User select pet information option. |
| <b>Actors</b>                | Pet owner, Doctor  |
| <b>Success End Condition</b> | User view all Pet information.                                   |
| <b>Failure End Condition</b> | User not view all Pet information.                               |
| <b>Trigger</b>               | View the all pet information.                                    |
| <b>Description</b>           | Admin is able to can see all doctor information.                 |

Table 2.6.2.9: Add pet information

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Add Pet Information</b>   |
| <b>Use Case ID</b>           | Uc-9.0   |
| <b>Preconditions</b>         | 1. Pet Owner must be login.<br>2. Pet Owner select add pet information option. |
| <b>Actors</b>                | Pet owner  |
| <b>Success End Condition</b> | Pet information successfully add.  |
| <b>Failure End Condition</b> | Pet information not successfully add.  |
| <b>Trigger</b>               | Display successfully message.  |
| <b>Description</b>           | The pet owner can add multiple pet information                                 |

Table 2.6.2.10: Comment User

|                              |                                |
|------------------------------|--------------------------------|
| <b>Use Case Title</b>        | <b>Comment User</b>            |
| <b>Use Case ID</b>           | Uc-10.0                        |
| <b>Preconditions</b>         | User must be login             |
| <b>Actors</b>                | Pet owner, Doctor              |
| <b>Success End Condition</b> | Comment successfully save.     |
| <b>Failure End Condition</b> | Comment not successfully save. |
| <b>Trigger</b>               | View comment.                  |
| <b>Description</b>           | Registered use can comment.    |

Table 2.6.2.11: Search doctor information

|                              |   |
|------------------------------|---|
| <b>Use Case Title</b>        | <b>Search Doctor Information</b>  |
| <b>Use Case ID</b>           | Uc-11.0   |
| <b>Preconditions</b>         | Browse the Online Pet Care  |
| <b>Actors</b>                | Registered user and Non-Registered user   |
| <b>Success End Condition</b> | Show search result.   |
| <b>Failure End Condition</b> | Not show result.  |
| <b>Trigger</b>               | View the doctor information   |
| <b>Description</b>           | If a user wants to know about a doctor, then user can find out about him by searching |

Table 2.6.2.12: Request seat reservation

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Request Seat Reservation</b>  |
| <b>Use Case ID</b>           | Uc-12.0  |
| <b>Preconditions</b>         | 1. Pet Owner must be login.<br>2. Pet Owner select seat reservation option.          |
| <b>Actors</b>                | Pet owner  |
| <b>Success End Condition</b> | Seat reservation request successfully add  |
| <b>Failure End Condition</b> | Seat reservation request not successfully add  |
| <b>Trigger</b>               | Display successfully message.  |
| <b>Description</b>           | If the user requests for seat reservation correctly then user will be notified mail. |

Table 2.6.2.13: Admin delete information

|                              |  |
|------------------------------|--|
| <b>Use Case Title</b>        | <b>Admin Delete Information</b>            |
| <b>Use Case ID</b>           | Uc-13.0                                    |
| <b>Preconditions</b>         | Admin must be login.                       |
| <b>Actors</b>                | Admin                                      |
| <b>Success End Condition</b> | Admin delete information successfully.     |
| <b>Failure End Condition</b> | Admin delete information not successfully. |
| <b>Trigger</b>               | Display successfully message.              |
| <b>Description</b>           | Admin can delete users information.        |

# **Chapter 3: System Design**

### 3.1.1 Activity Diagram

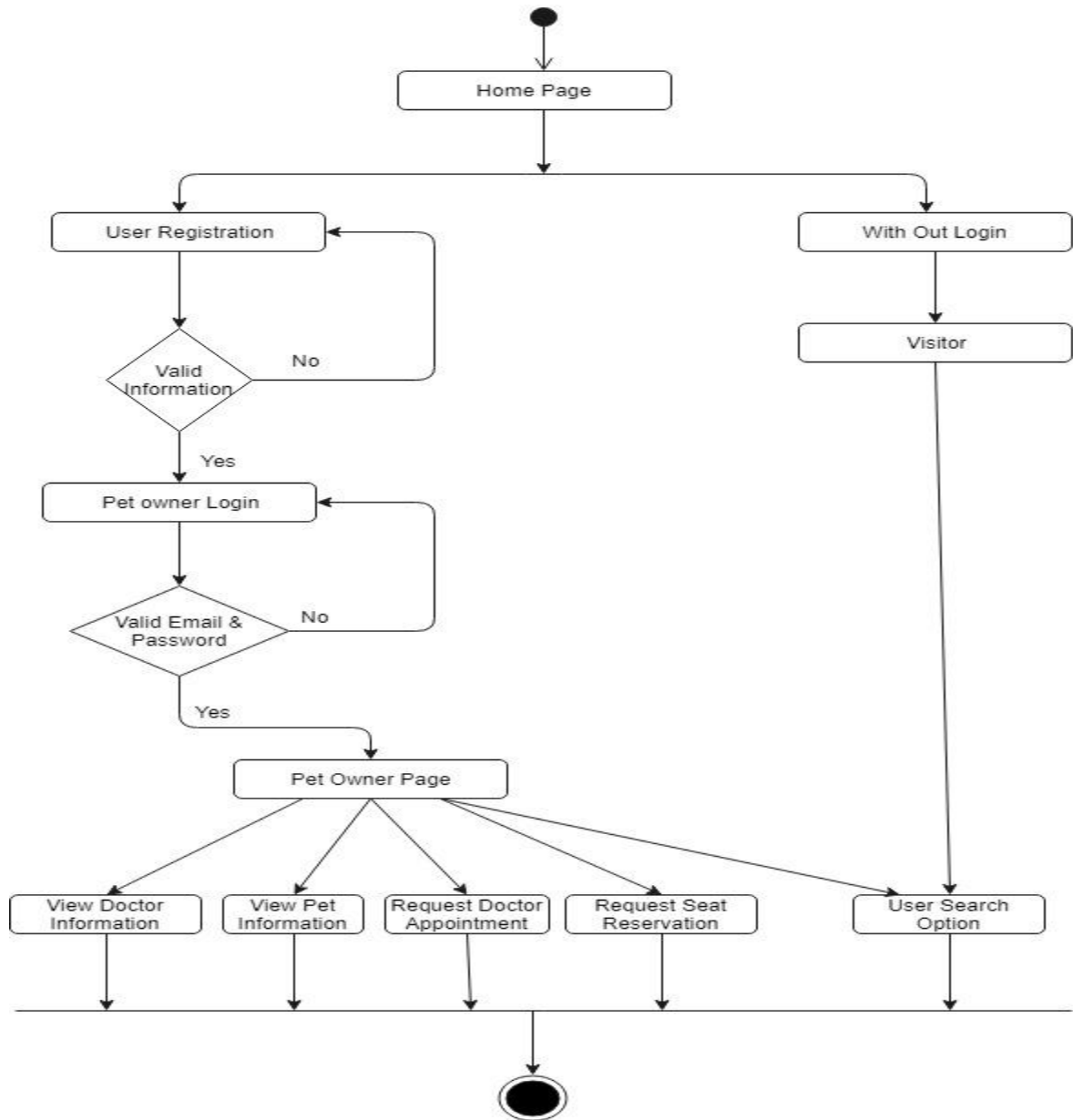


Figure 3.1.1: Activity Diagram for Pet-Owner

### 3.1.2 Activity Diagram

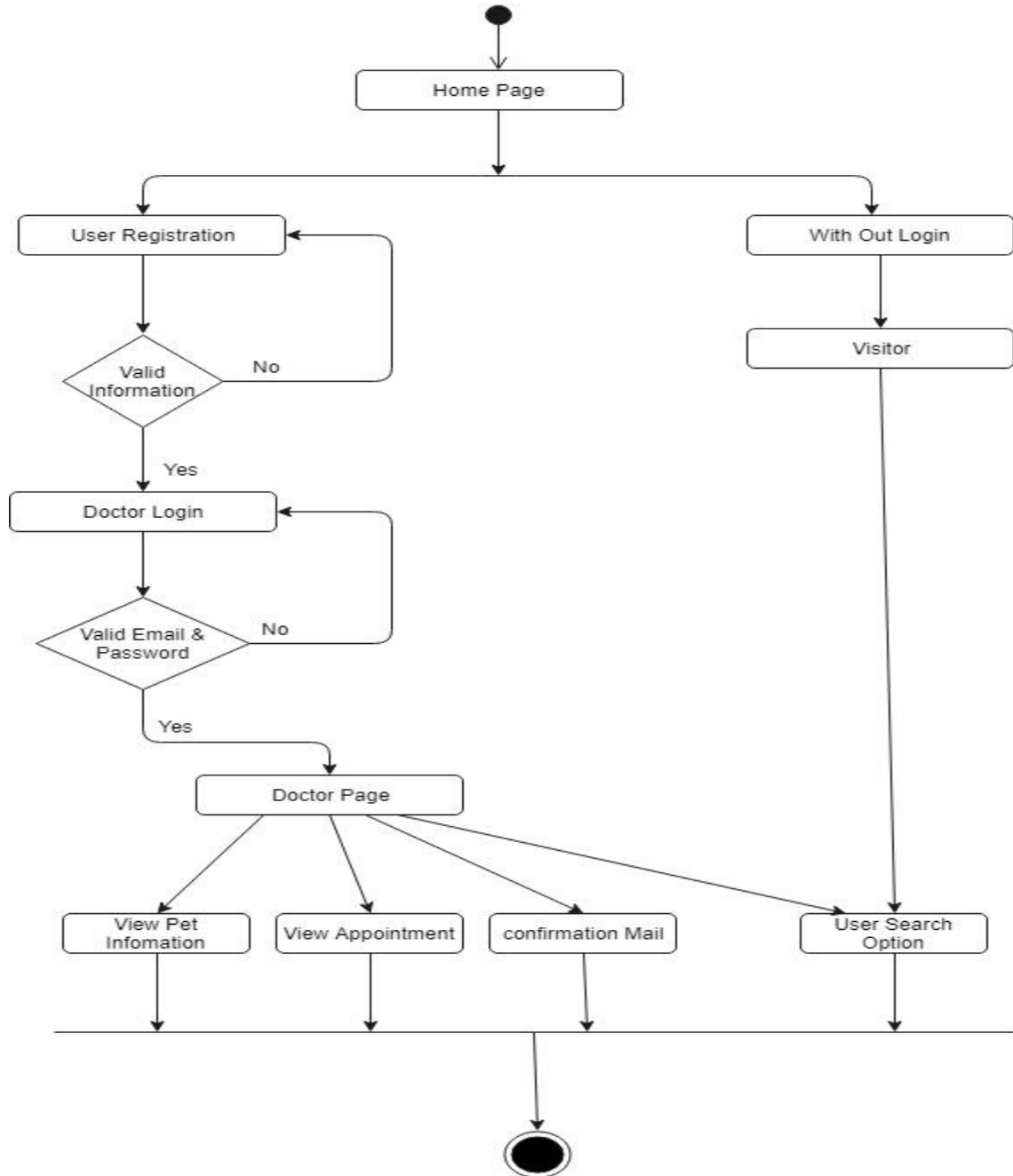


Figure 3.1.2: Activity Diagram for Doctor

### 3.1.3 Activity Diagram

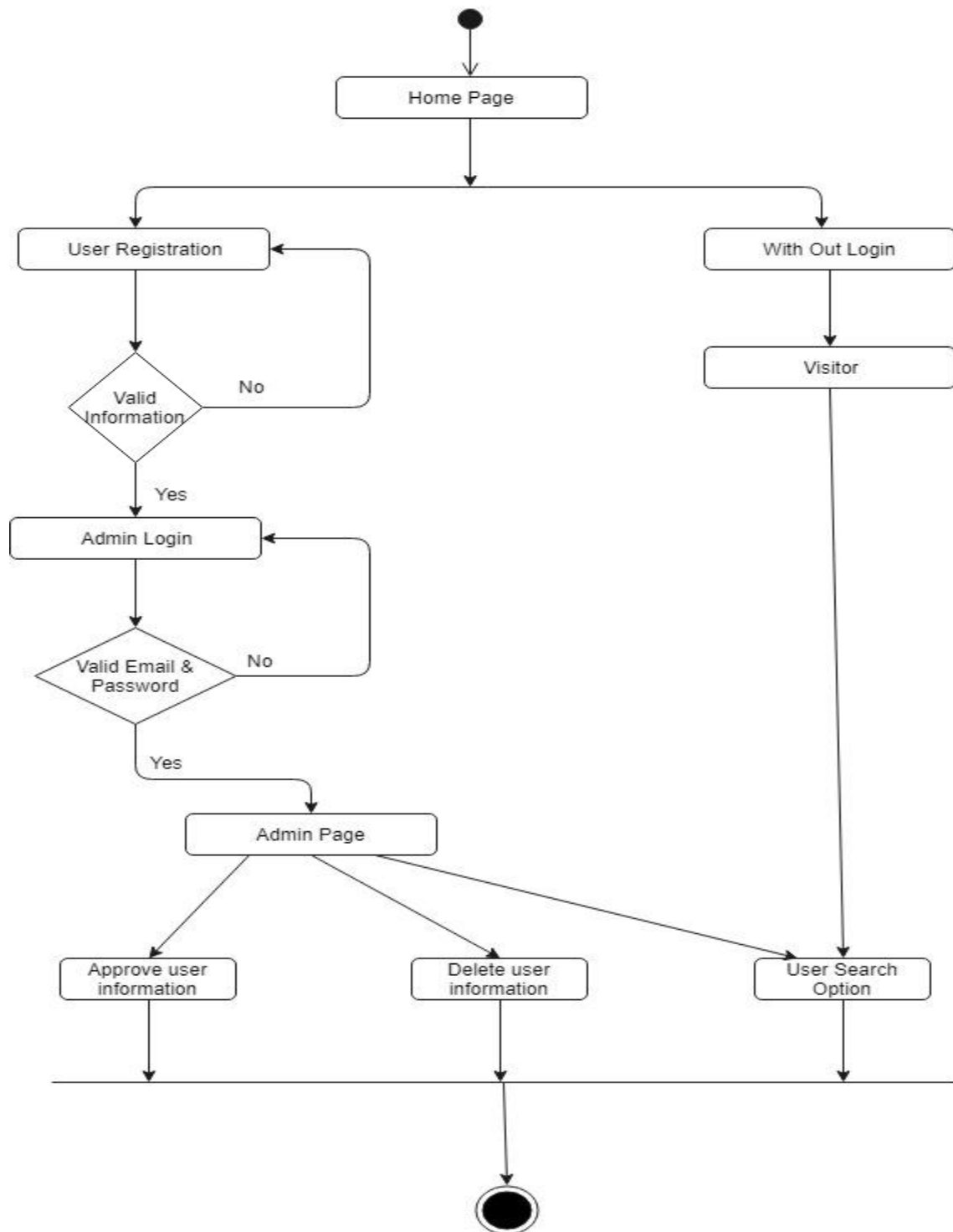


Figure 3.1.3: Activity Diagram for Admin



### 3.2.1 Dataflow Diagram (Level-0)

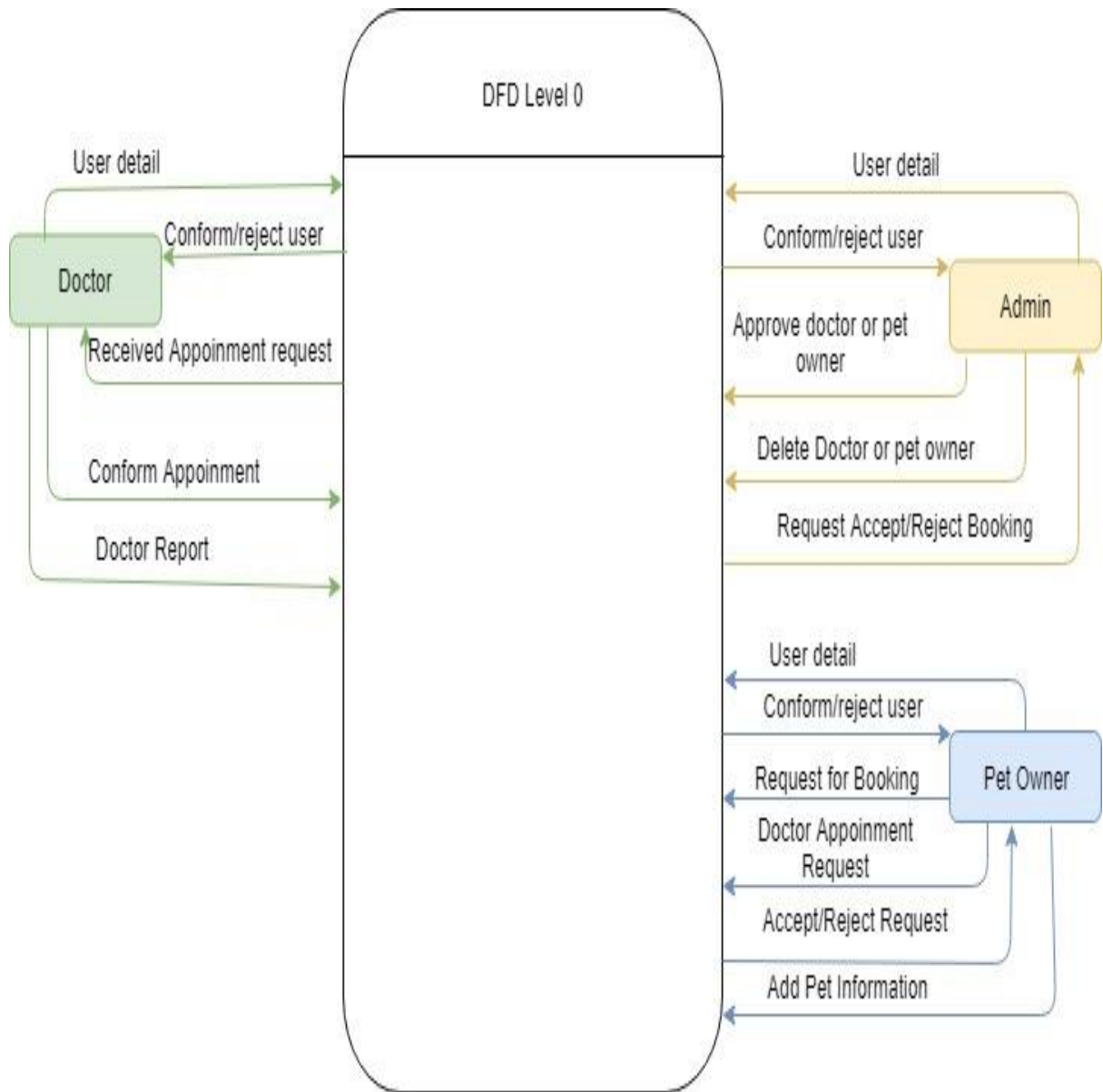


Figure 3.2.1: Dataflow diagram (Level-0)

### 3.2.2 Dataflow Diagram (Level-1)

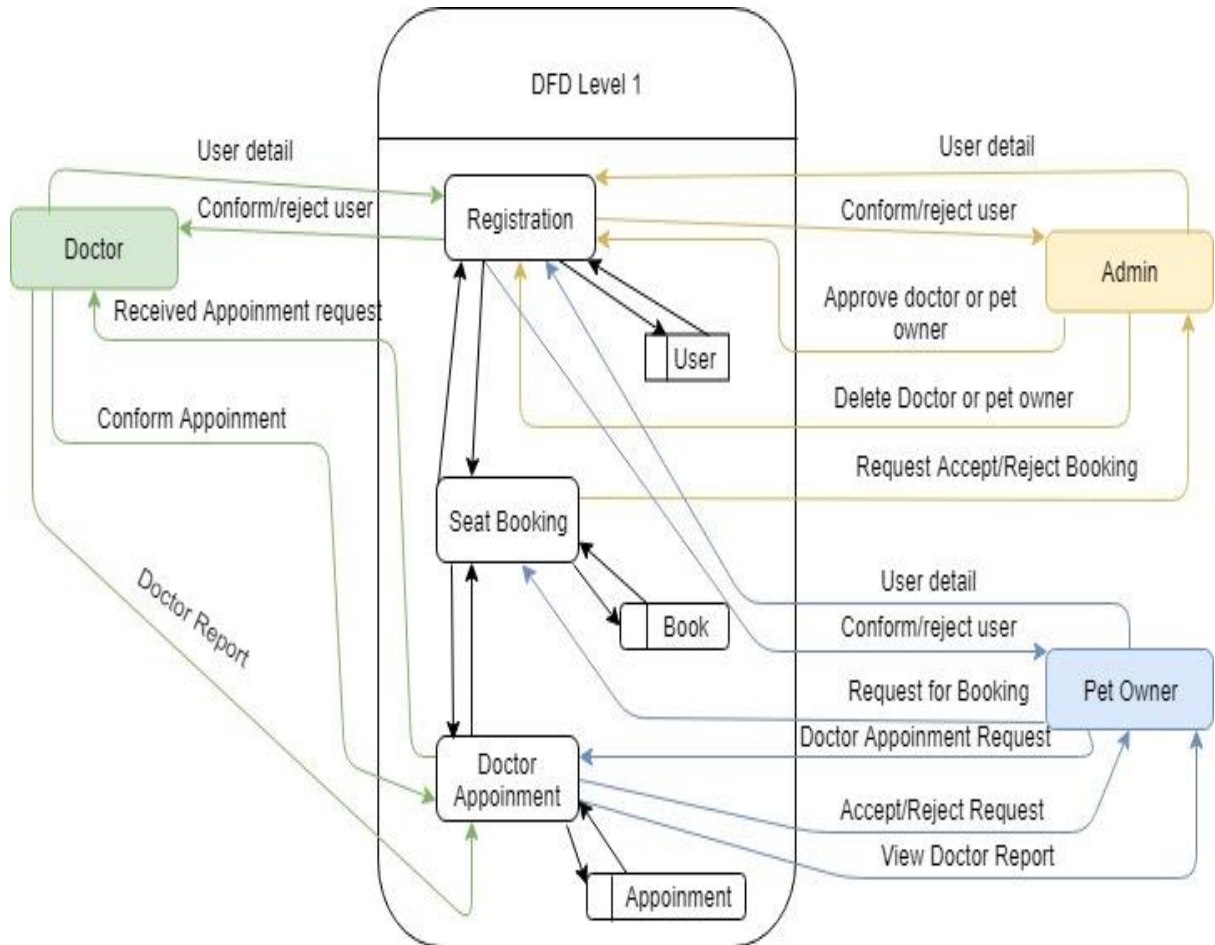


Figure 3.2.2: Dataflow diagram (Level-0)

### 3.3 ER Diagram:

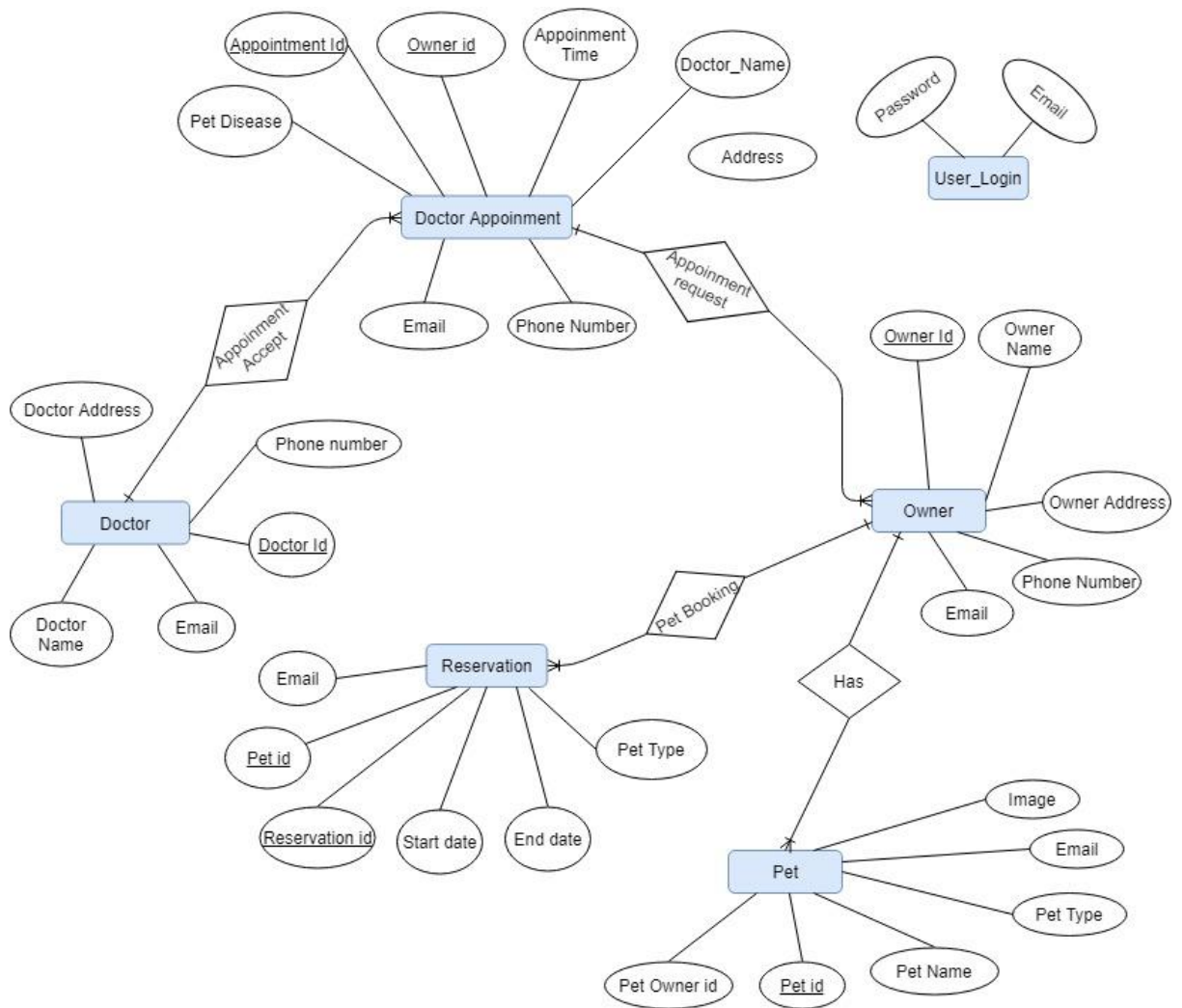


Figure 3.3: ER Diagram

### 3.4 Class diagram:



Figure 3.4: Class Diagram

# **Chapter 4:**

## **System Test & Development**

## 4.1 Introduction

This web application is a services application, this system will provide service of user pet. There are several type of users and many features on this system. So I think this application requires on this system. To ensure an application quality, testing need to be done. The user use will give some data so be careful about the data. I've worked with that test they are given below

- Functional Testing
- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

## 4.2 Features to be tested:

Table- 4.2: Features to be tested

| Feature                    | Priority | Description  |
|----------------------------|----------|--|
| Login                      | 2        | User must be authenticated by login.   |
| Logout                     | 1        | Session must be destroy after logout.  |
| Registration               | 2        | To become a member for any type of user, they need to be registered first.                                   |
| Request Doctor Appointment | 2        | You must be registered of pet owner then you request doctor appointment.                                     |
| Accept Appointment         | 1        | Doctor must be logged in then, if doctor accept/reject then send mail for conformation message.              |
| View Doctor Information    | 1        | Pet owner must be login then pet owner view all doctor information.  |
| Search Doctor Information  | 1        | Any type user search the doctor information.   |
| View pet owner Information | 3        | Doctor must be login and if any pet owner request doctor appointment then doctor view pet owner information. |
| Request Seat Reservation   | 2        | Pet owner must be registered then request seat reservation.  |
| View Pet Information       | 3        | Doctor and pet owner view the pet information but must be login.   |
| Add Pet Information        | 2        | Pet owner must be registered then add pet information.   |
| Admin Delete Information   | 3        | Admin delete information but must be logged in.  |

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

### **4.3 Testing Strategy:**

Testing strategy determines the projects approach to testing. I will first check that requirement then I will verify requirement whether it work correctly. It is also the indicator of test that are to be performed on the whole software development life cycle. Keep the application started I will follow a few step of testing. First of all, I did the functional testing then unit testing then I did Integration testing then System testing and at last I did Acceptance testing.

## 4.4 Test Case Table

Table 4.4.1: Login

|  |                      |                                  |   |                  |                |
|--|----------------------|----------------------------------|---|------------------|----------------|
| <b>Test case #1</b>  |                      | <b>Test case name:</b> Log in    |   |                  |                |
| <b>System:</b> Online Pet Care   |                      | <b>Subsystem:</b> N/A            |   |                  |                |
| <b>Designed by:</b> Mazed Mourshed   |                      | <b>Designed date:</b> 20/04/2019 |   |                  |                |
| <b>Executed by:</b> Mazed Mourshed   |                      | <b>Executed date:</b> 21/04/2019 |   |                  |                |
| <b>Short description:</b> If the user will be correct data input then user login successfully.   |                      |                                  |   |                  |                |
| <b>Pre-conditions:</b>   |                      |                                  |   |                  |                |
| <ul style="list-style-type: none"> <li>• User must be registered.</li> <li>• Assume that, the email id is 'mmmeshal96@gmail.com' and password is 'password'</li> </ul> |                      |                                  |   |                  |                |
| <b>Step</b>  | <b>Email</b>         | <b>Password</b>                  | <b>Expected result</b>                      | <b>Pass/Fail</b> | <b>Comment</b> |
| 1  | mmmeshal96@          | pass                             | These credentials do not match our records. | Pass             |                |
| 2  | mmmeshal96@gmail.com |                                  | The password field is require.              | Pass             |                |
| 3  |                      | password                         | The email field is required.                | Pass             |                |
| 4  | mmmeshal96@gmail.com | password                         | Successfully login to the application       | Pass             |                |
| <b>Post-conditions:</b> After the user login then user can see the homepage and many option.   |                      |                                  |   |                  |                |



Table 4.4.2: Logout User

|   |                                     |                                    |                  |                |
|---|-------------------------------------|------------------------------------|------------------|----------------|
| <b>Test case #2</b>   |                                     | <b>Test case name:</b> Logout User |                  |                |
| <b>System:</b> Online Pet Care  |                                     | <b>Subsystem:</b> N/A              |                  |                |
| Designed by: Mazed Mourshed   |                                     | <b>Designed date:</b> 20/04/2019   |                  |                |
| Executed by: Mazed Mourshed   |                                     | <b>Executed date:</b> 21/04/2019   |                  |                |
| <b>Short description:</b> If the user want logout, then user will chose logout button and click the button. |                                     |                                    |                  |                |
| <b>Pre-conditions:</b> User must be login.  |                                     |                                    |                  |                |
|   |                                     |                                    |                  |                |
| <b>Step</b>   | <b>Action</b>                       | <b>Response</b>                    | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | Click logout from dropdown.         | Successfully logout.               | Pass             |                |
| 2   | After logout click back and reload. | Redirect to login page             | Pass             |                |
| <b>Post-conditions:</b> Session will be destroy.  |                                     |                                    |                  |                |

Table 4.4.3: Request Doctor Appointment

|  |   |   |                  |                |
|--|---|---|------------------|----------------|
| <b>Test case #3</b>  |   | <b>Test case name:</b> Request Doctor Appointment |                  |                |
| <b>System:</b> Online Pet Care   |   | <b>Subsystem:</b> N/A                             |                  |                |
| <b>Designed by:</b> Mazed Mourshed   |   | <b>Designed date:</b> 20/04/2019                  |                  |                |
| <b>Executed by:</b> Mazed Mourshed   |   | <b>Executed date:</b> 21/04/2019                  |                  |                |
| <b>Short description:</b> If the pet owner want to apply for appointment, then user will chose appointment option and fill up it.            |   |   |                  |                |
| <b>Pre-conditions:</b>   |   |   |                  |                |
| <ul style="list-style-type: none"> <li>• Pet Owner must be login.</li> <li>• Every required field must be filled up by that user.</li> </ul> |   |   |                  |                |
|  |   |   |                  |                |
| <b>Step</b>  | <b>Action</b>                             | <b>Response</b>                                   | <b>Pass/Fail</b> | <b>Comment</b> |
| 1  | All required fields are not filled yet.   | Fields must not be empty.                         | Pass             |                |
| 2  | All input filed is filled up by the user. | Application will save those information.          | Pass             |                |
| <b>Post-conditions:</b> Appointment information is saved to the database of the application program properly.                                |   |   |                  |                |

Table 4.4.4: Accept Appointment

|   |                                   |   |                  |                |
|---|-----------------------------------|---|------------------|----------------|
| <b>Test case #4</b>   |                                   | <b>Test case name:</b> Accept Appointment |                  |                |
| <b>System:</b> Online Pet Care  |                                   | <b>Subsystem:</b> N/A                     |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |                                   | <b>Designed date:</b> 20/04/2019          |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |                                   | <b>Executed date:</b> 21/04/2019          |                  |                |
| <b>Short description:</b> If the doctor wants to take an appointment, then the doctor will send the confirmation mail |                                   |   |                  |                |
| <b>Pre-conditions:</b>  |                                   |   |                  |                |
| <ul style="list-style-type: none"> <li>• Doctor must be authenticated by our application.</li> </ul>                  |                                   |   |                  |                |
|   |                                   |   |                  |                |
| <b>Step</b>   | <b>Action</b>                     | <b>Response</b>                           | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | Doctor is not accept appointment. | Send reject mail.                         | Pass             |                |
| 2   | Doctor is accept appointment.     | Send conformation mail.                   | Pass             |                |
| <b>Post-conditions:</b> Show the successfully mail send accept/reject message.  |                                   |   |                  |                |

Table 4.4.5: Search Doctor Information

|  |                                   |                                      |                  |                |
|--|-----------------------------------|--------------------------------------|------------------|----------------|
| <b>Test case #5</b>  |                                   | <b>Test case name:</b> Search Doctor |                  |                |
| <b>System:</b> Online Pet Care   |                                   | <b>Subsystem:</b> N/A                |                  |                |
| <b>Designed by:</b> Mazed Mourshed   |                                   | <b>Designed date:</b> 20/04/2019     |                  |                |
| <b>Executed by:</b> Mazed Mourshed   |                                   | <b>Executed date:</b> 21/04/2019     |                  |                |
| <b>Short description:</b> Under the search, you will be able to find a doctor's information.   |                                   |                                      |                  |                |
| <b>Pre-conditions:</b>   |                                   |                                      |                  |                |
| <ul style="list-style-type: none"> <li>• Open Online Pet Care web application.</li> <li>• Input the search box and click search button.</li> </ul> |                                   |                                      |                  |                |
|  |                                   |                                      |                  |                |
| <b>Step</b>  | <b>Action</b>                     | <b>Response</b>                      | <b>Pass/Fail</b> | <b>Comment</b> |
| 1  | Doctor information is not exists. | Not show doctor information          | Pass             |                |
| 2  | Doctor information is exists.     | Show the doctor information          | Pass             |                |
| <b>Post-conditions:</b> View the search result.  |                                   |                                      |                  |                |

Table 4.4.6: Registration User

|  |   |  |                  |                |
|--|---|--|------------------|----------------|
| <b>Test case #6</b>  |   | <b>Test case name:</b> Registration User |                  |                |
| <b>System:</b> Online Pet Care   |   | <b>Subsystem:</b> N/A                    |                  |                |
| <b>Designed by:</b> Mazed Mourshed   |   | <b>Designed date:</b> 20/04/2019         |                  |                |
| <b>Executed by:</b> Mazed Mourshed   |   | <b>Executed date:</b> 21/04/2019         |                  |                |
| <b>Short description:</b> After all requirement field fill up user can register for the system.        |   |  |                  |                |
| <b>Pre-conditions:</b>   |   |  |                  |                |
| <ul style="list-style-type: none"> <li>User select the register form.</li> </ul>                       |   |  |                  |                |
|  |   |  |                  |                |
| <b>Step</b>  | <b>Action</b>                             | <b>Response</b>                          | <b>Pass/Fail</b> | <b>Comment</b> |
| 1  | All required fields are not filled yet.   | Fields must not be empty.                | Pass             |                |
| 2  | All input filed is filled up by the user. | Application will save those informatio   | Pass             |                |
| <b>Post-conditions:</b> User information is saved to the database of the application program properly. |   |  |                  |                |

Table 4.4.7: View doctor information

|   |                                      |  |                  |                |
|---|--------------------------------------|--|------------------|----------------|
| <b>Test case #7</b>   |                                      | <b>Test case name:</b> View Doctor Information |                  |                |
| <b>System:</b> Online Pet Care  |                                      | <b>Subsystem:</b> N/A                          |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |                                      | <b>Designed date:</b> 20/04/2019               |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |                                      | <b>Executed date:</b> 21/04/2019               |                  |                |
| <b>Short description:</b> If the pet owner wants will to be able to can see all doctor information. |                                      |  |                  |                |
| <b>Pre-conditions:</b>  |                                      |  |                  |                |
| <ul style="list-style-type: none"> <li>Pet owner must be login.</li> </ul>                          |                                      |  |                  |                |
|   |                                      |  |                  |                |
| <b>Step</b>   | <b>Action</b>                        | <b>Response</b>                                | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | User information not saved database. | Not found user.                                | Fail             |                |
| 2   | User information saved database.     | Show the user information                      | Pass             |                |
| <b>Post-conditions:</b> View the doctor information.  |                                      |  |                  |                |

Table 4.4.8 Add pet information

|   |   |  |                  |                |
|---|---|--|------------------|----------------|
| <b>Test case #8</b>   |   | <b>Test case name:</b> Add Pet Information |                  |                |
| <b>System:</b> Online Pet Care  |   | <b>Subsystem:</b> N/A                      |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |   | <b>Designed date:</b> 20/04/2019           |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |   | <b>Executed date:</b> 21/04/2019           |                  |                |
| <b>Short description:</b> Pet owner can add own pet information.                                    |   |  |                  |                |
| <b>Pre-conditions:</b>  |   |  |                  |                |
| <ul style="list-style-type: none"> <li>• Pet Owner must be authenticated by application.</li> </ul> |   |  |                  |                |
|   |   |  |                  |                |
| <b>Step</b>   | <b>Action</b>                                 | <b>Response</b>                            | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | All required fields are not filled yet.       | Fields must not be empty.                  | Fail             |                |
| 2   | All input filed is filled up by the pet owner | Application will save those information.   | Pass             |                |
| <b>Post-conditions:</b> Pet owner view the own pet information.                                     |   |  |                  |                |

Table 4.4.9: Admin delete information

|   |  |   |                  |                |
|---|--|---|------------------|----------------|
| <b>Test case #9</b>   |  | <b>Test case name:</b> Admin Delete Information |                  |                |
| <b>System:</b> Online Pet Care  |  | <b>Subsystem:</b> N/A                           |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |  | <b>Designed date:</b> 20/04/2019                |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |  | <b>Executed date:</b> 21/04/2019                |                  |                |
| <b>Short description:</b> Admin can delete all users information.                             |  |   |                  |                |
| <b>Pre-conditions:</b>  |  |   |                  |                |
| <ul style="list-style-type: none"> <li>Admin must be authenticated by application.</li> </ul> |  |   |                  |                |
|   |  |   |                  |                |
| <b>Step</b>   | <b>Action</b>  | <b>Response</b>                                 | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | If the user's details are not deleted from the database, | User information not successfully delete.       | Fail             |                |
| 2   | If the user's details are deleted from the database      | User information successfully delete.           | Pass             |                |
| <b>Post-conditions:</b> View the all type user information.                                   |  |   |                  |                |



Table 4.4.10: View pet owner information

|   |                                      |   |                  |                |
|---|--------------------------------------|---|------------------|----------------|
| <b>Test case #10</b>  |                                      | <b>Test case name:</b> View Pet owner Information |                  |                |
| <b>System:</b> Online Pet Care  |                                      | <b>Subsystem:</b> N/A                             |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |                                      | <b>Designed date:</b> 20/04/2019                  |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |                                      | <b>Executed date:</b> 21/04/2019                  |                  |                |
| <b>Short description:</b> If the doctor wants will to be able to can see all pet owner information. |                                      |   |                  |                |
| <b>Pre-conditions:</b>  |                                      |   |                  |                |
| <ul style="list-style-type: none"> <li>• Doctor must be login.</li> </ul>                           |                                      |   |                  |                |
|   |                                      |   |                  |                |
| <b>Step</b>   | <b>Action</b>                        | <b>Response</b>                                   | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | User information not saved database. | Not found user.                                   | Fail             |                |
| 2   | User information saved database.     | Show the user information.                        | Pass             |                |
| <b>Post-conditions:</b> View the pet owner information.   |                                      |   |                  |                |

Table 4.4.11: View pet information

|   |                                      |   |                  |                |
|---|--------------------------------------|---|------------------|----------------|
| <b>Test case #11</b>  |                                      | <b>Test case name:</b> View Pet Information |                  |                |
| <b>System:</b> Online Pet Care  |                                      | <b>Subsystem:</b> N/A                       |                  |                |
| <b>Designed by:</b> Mazed Mourshed  |                                      | <b>Designed date:</b> 20/04/2019            |                  |                |
| <b>Executed by:</b> Mazed Mourshed  |                                      | <b>Executed date:</b> 21/04/2019            |                  |                |
| <b>Short description:</b> If the doctor wants will to be able to can see all pet information. |                                      |   |                  |                |
| <b>Pre-conditions:</b>  |                                      |   |                  |                |
| <ul style="list-style-type: none"> <li>• Doctor or pet owner must be login.</li> </ul>        |                                      |   |                  |                |
|   |                                      |   |                  |                |
| <b>Step</b>   | <b>Action</b>                        | <b>Response</b>                             | <b>Pass/Fail</b> | <b>Comment</b> |
| 1   | User information not saved database. | Not found user.                             | Fail             |                |
| 2   | User information saved database.     | Show the user information.                  | Pass             |                |
| <b>Post-conditions:</b> View the pet information.   |                                      |   |                  |                |

## 4.5 Development

### 4.5.1 Tools and Technology

This system is a web application. Tools and technology I used to build this software are alluded below.

- **Presentation Layer:** HTML5, CSS3, Bootstrap 4, JavaScript, JQuery.
- **Application Layer:** PHP, Laravel 5.4
- **Data Layer:** MySQL.
- **Tools:** Sublime Text 3, Xampp.

### 4.5.2 Reason behind choosing

- **HTML5:** HTML5 used to make structure of web page.
- **Bootstrap with CSS:** Bootstrap is a css framework and language CSS is a styling.
- **JavaScript with JQuery:** To make presentation layer interactive JavaScript is used and JQuery is its library.
- **Laravel with PHP:** Laravel is a framework of PHP which uses MVC architecture and used for connecting presentation layer with data layer.
- **MySQL:** MySQL is a database to manage and manipulate data to make connection with application layer.
- **Sublime Text and Xampp:** Sublime is an IDE or text editor uses for coding. And xampp is a control panel to start database server.

# **Chapter 5: Risk Management**

## 5.1 Software Risk identification

Risk identification is a process that helps keep our project quality better and reduces the risk of a business environment. Determining the risk for a business organization is very important.

When determining the risk, we must evaluate the risk very accurately so that there is no error. To find out the risk score have to know risk probability and risk impact.

Probability of the risk categorized

| Probability of the risk |   |  |
|-------------------------|---|--|
| Certain                 | 5 | The risk is almost certain to occur (greater than 80% chance)                |
| Likely                  | 4 | The risk is more likely to occur than not (between 51% and 80% chance)       |
| Possible                | 3 | The risk is fairly likely to occur ( between 21% and 50% chance)             |
| Unlikely                | 2 | The risk is unlikely but not impossible to occur (between 6% and 20% chance) |
| Rare                    | 1 | The risk is unlikely to occur (<5% chance)                                   |

Impact of the risk categorized:

| Impact of the risk |   |
|--------------------|---|
| Catastrophic       | 5 |
| Major              | 4 |
| Moderate           | 3 |
| Minor              | 2 |
| Negligible         | 1 |

## 5.2 Software risk Register

Table 5.2: Software risk register

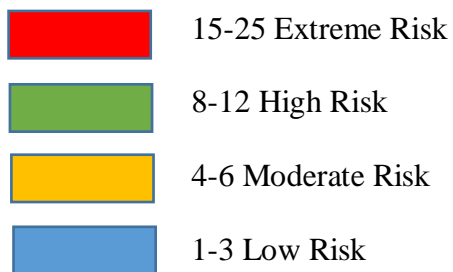
| <b>Risk Id</b> | <b>Risk Description</b>        | <b>Impact</b> | <b>Probability</b> | <b>Risk Score</b> |
|----------------|--------------------------------|---------------|--------------------|-------------------|
| 1.             | Technical Problem              | 2             | 3                  | 6                 |
| 2.             | System that crash              | 4             | 2                  | 8                 |
| 3.             | Information security           | 3             | 3                  | 9                 |
| 4.             | Misunderstand requirement      | 4             | 4                  | 16                |
| 5.             | Decision are low quality       | 2             | 3                  | 6                 |
| 6.             | Decision delays impact project | 3             | 2                  | 6                 |

### 5.2.1 Software Risk Matrix

Based on this risk register, we can draw a risk matrix where,  
Probability on the y-axis  
Impact on the x-axis  
Risk will be set in matrix according to their score.

Table 5.2.1: Software risk matrix


| <b>Probability/Impact</b> | Negligible(1) | Minor(2) | Moderate(3) | Major(4) | Catastrophic(5) |
|---------------------------|---------------|----------|-------------|----------|-----------------|
| Certain(5)                |               |          |             |          |                 |
| Likely(4)                 |               |          | 6           | 4        |                 |
| Possible(3)               |               | 1,5      | 3           |          |                 |
| Unlikely(2)               |               |          |             | 2        |                 |
| Rare(1)                   |               |          |             |          |                 |



# **Chapter 6: User Manual**




## 6.1 Welcome Page:



LBC HD WALLPAPERS

Home Contact Emergency Service ▾


Search  Search Login Register



### Healthy Food

Two connected elements of responsible pet ownership include providing animals with fresh, cool water and healthy food at all times.


[Read More](#)



### Exercise

Two connected elements of responsible pet ownership include providing animals with fresh, cool water and healthy food at all times.


[Read More](#)



### Screening tests

Two connected elements of responsible pet ownership include providing animals with fresh, cool water and healthy food at all times.

[Read More](#)




### Dental care

Two connected elements of responsible pet ownership include providing animals with fresh, cool water and healthy food at all times.

[Read More](#)

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## 6.2 Pet Owner Register page:

Home Contact Emergency Service ▾

Search Search Login Register

# User Registration

Name

phone\_number


address

E-Mail Address


Password

Confirm Password

[Register](#)



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## 6.3 Pet Owner Login page:

Home Contact Emergency Service ▾

Search   [Login](#) [Register](#)


### User Login

E-Mail Address

Password

Remember Me

[Forgot Your Password?](#)



A graphic with the text "USER LOGIN" in orange and black, and a black silhouette of a person's head and shoulders below it. The background is light beige with faint, repeating text "Daffodil International University" and circular patterns.

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[Twitter](#) [Instagram](#) [Facebook](#)

## 6.4 Doctor register page:

Home Contact Emergency Pet Information Service ▾

Search   [Login](#) [Register](#)

### Doctor Registration

Name


phone\_number

address

E-Mail Address

Password

Confirm Password



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[Twitter](#) [Email](#) [Facebook](#)

## 6.5 Doctor Login page:

Home Contact Emergency Pet Information Service ▾

Search   Login Register


### Doctor Login

E-Mail Address


Password

Remember Me

[Forgot Your Password?](#)



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## 6.6 Admin Login page:

Home Contact Emergency Service ▾

Search   Login


### Admin Login

E-Mail Address


Password

Remember Me

[Forgot Your Password?](#)




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## 6.7 Search Doctor Information:

Home Contact Emergency Service ▾

Mohammadpur Search Login Register






**Name: meshal**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
Email: mmmeshal96@gmail.com



**Name: mazed**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
Email: majed.meshal@yahoo.com

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## 6.8 Pet Owner Home page:

The screenshot displays the Pet Owner Home page with a dark blue background. At the top, there is a navigation bar with links for Home, Contact, Emergency, and Service. A search bar and a user profile dropdown (Meshal) are also present. The main content area features five circular icons representing different services: View Doctor Information, Doctor Appointment, Seat Reservation, Add Your Pet Information, and View Your Pet Information. Below these icons is a large image of several husky puppies. The footer contains a copyright notice and social media icons for Twitter, Email, and Facebook.

Home Contact Emergency Service ▾

Search Search • Meshal ▾

Logout

View Doctor Information

Doctor Appointment

Seat Reservation

Add Your Pet Information

View Your Pet Information

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Twitter Email Facebook

## 6.9 Pet Owner Request Doctor Appointment:

Home Contact Emergency Service ▾

Search  Search

• Meshal ▾

### Doctor Appoinment

Pet Type

pet\_diseases




doctor\_name


phone\_number

address

E-Mail Address

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## 6.10 Pet Owner Request seat reservation:

Home Contact Emergency Service ▾ Search  Search • Meshal ▾

### Seat Reservation

Pet Type


phone\_number

address

E-Mail Address

start\_day

end\_day




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[Twitter](#) [Email](#) [Facebook](#)


## 6.11 Pet Owner view all doctor information:

Home Contact Emergency Service ▾ Search  Search • Meshal ▾

### Doctor Information



**Name: mazed**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: majed.meshal@yahoo.com



**Name: meshal**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: mmmeshal96@gmail.com

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[Twitter](#) [Email](#) [Facebook](#)

## 6.12 Pet Owner add pet information:

Home Contact Emergency Service ▾

Search  Search

• Meshal ▾

### Add Pet Information


Pet Image  
 No file chosen

Pet Type

pet\_name

pet\_owner\_name

E-Mail Address




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[t](#) [m](#) [f](#)

## 6.13 Pet Owner view own pet information:

Home Contact Emergency Service ▾ Search Search • Meshal ▾




**pet\_type: Cat**  
pet\_name: Tomi  
pet\_owner\_name: mazed  
email: majed.meshal@yahoo.com



**pet\_type: Dog**  
pet\_name: Tiger  
pet\_owner\_name: Meshal  
email: majed.meshal@yahoo.com

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## 6.14 Emergency Page:

Home Contact Emergency Service ▾ Search Search Login Register

[Pet Hospitals List in Dhaka](#)

[Ambulance Service](#)

[Pet Hospitals List in Dhaka](#)

District Veterinary Hospital  
Keshab Benarjee Rd, Dhaka, Bangladesh

Central Veterinary Hospital  
Kazi Allaudin Rd, Dhaka 1000, Bangladesh  
Phone: +880 1711-187477

Fatema Manjeel Animal Hospital  
Kathal Bagan Sonargaon Road, Dhaka 1205, Bangladesh  
Phone: +880 1720-118383

Dr. Sagir's Pet Clinic  
Dhanmondi Address: House 3/2, Block D, Lalmatia Dhaka 1207, Bangladesh  
Gulshan Address: House # 21, Road # 6, Block # D, Niketon, Gulshan 1, Dhaka  
Phone for serial: 01752987436, 01706214759

[Ambulance Service](#)

Dr. Sagir's Ambulance  
Address: 76/A, Ahmed Plaza, West Panthapath, Bir Uttam Kazi Nuruzzaman Rd, Dhaka 1215  
Phone: 01713-205555


Alif Ambulance Service  
Address: House # 3/2 Block No. D, Dhaka 1207  
Phone: 01912-251312

Desh Ambulance Service  
Address: 82 East Ahmed Nagar, Dhaka 1216  
Phone: 01790-509607

...

...

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## 6.15 Doctor Home Page:

Home Contact Emergency Pet Information Service ▾

Search  Search • meshal ▾

### Doctor Appointment Request






Pet Type: Cat  
pet\_diseases: Skin Infection  
Address: Mohammadpur,Nobodoy Housing  
phone\_number: 01957525686  
Email: mmmeshal96@gmail.com

### Doctor Send Mail To Pet Owner

Email:

Message:

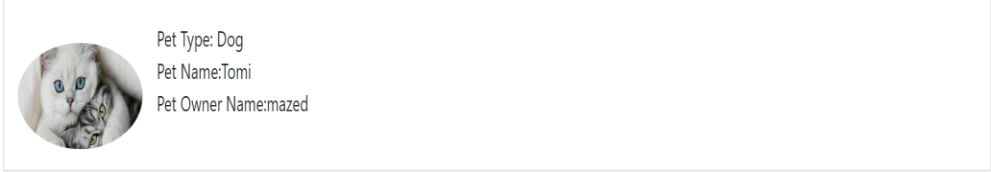
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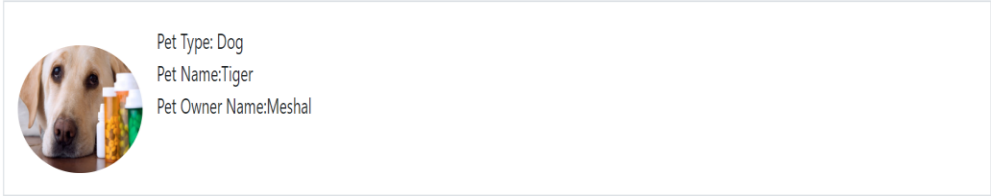
## 6.15 Doctor View Pet Information:

Home Contact Emergency Pet Information Service ▾

Search  Search • mazed ▾



Pet Type: Dog  
Pet Name: Tomi  
Pet Owner Name: mazed



Pet Type: Dog  
Pet Name: Tiger  
Pet Owner Name: Meshal


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[T](#) [M](#) [f](#)


## 6.18 Contact Page:

Home Contact Emergency Service ▾

Search  Search Login Register



**Mazed Mourshed**  
Phone Number: 01957525686  
Email: mourshedmeshal@gmail.com  
Address: Mohiamadpur




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[T](#) [M](#) [f](#)

## 6.19 Admin view doctor information:


Home Contact Emergency Service ▾ Search Search • mazed ▾

### Doctor Information



**Name: mazed**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: majed.meshal@yahoo.com


delete



**Name: meshal**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: mmmeshal96@gmail.com

delete


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## 6.20 Admin view doctor appointment:


Home Contact Emergency Service ▾ Search Search • mazed ▾

### Doctor Appointment



**Name: Dog**  
Phone Number: Skin Infection  
Address: mazed  
email: 01957525686


delete



**Name: Cat**  
Phone Number: Skin Infection  
Address: meshal  
email: 01957525686

delete


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## 6.21 Admin view pet owner information:

Home Contact Emergency Service ▾ Search Search • mazed ▾


### User Information



**name: Meshal**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: majed.meshal@yahoo.com

delete


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## 6.22 Admin view seat reservation information:


Home Contact Emergency Service ▾ Search Search • mazed ▾

### Seat Reservation



**pet\_type: Dog**  
Phone Number: 01957525686  
Address: Mohammadpur,Nobodoy Housing  
email: majed.meshal@yahoo.com  
start\_day: 2019-04-24  
end\_day: 2019-04-30


delete



**pet\_type: Cat**  
Phone Number: 01957525686  
Address: Mohammadpur,katashur  
email: ahmed@gmail.com  
start\_day: 2019-04-21  
end\_day: 2019-04-28

delete

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# **Chapter 7: Conclusion**



## 7.1 Github Link

[https://github.com/mazed007/Online\\_Pet\\_Care](https://github.com/mazed007/Online_Pet_Care)

## 7.2 Project Summary

I have started the project work from January. I have first discuss to my supervisor then I have done list down the features. After confirming the features then I started the system diagram and database design. After ensure the diagram the diagram and system design of my project then I started the coding part.

After complete the coding part then I am started the testing part. To started testing work I have been taken some idea of testing and that's my supervisor helped me.

## 7.3 Limitation

I have tried my best to make the application better and fulfill requirements but some of then were not possible make for time shortage.

**Payment Method:** In my application, there is not having any payment method.

## 7.4 Future Scope

I think I learned a lot through this project. I would thank them that all the people give me such a nice opportunity and helped me. I think this experience will help me a lot in the future and will support for creating new features.