ASSUMPTION UNIVERSITY
Vincent Mary School of Science and Technology

Department of Information Technology

IT4314 Software Engineering Concepts

Animal Adoption System

Asst. Prof. Dr. Darun Kesrarat

Prepared by:

Sossarun T. 5645116
Siwapong C. 5646919
Thanawat U. 5631014
Natthawat P. 5616971

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1. Introduction

Animal adoption is the process whereby a person brings an animal, mostly cats and dogs, to their own care. These animals that are either lost or abandoned are taken by the animal control to be kept in animal shelters. Pets that are kept in the shelters for a long time are euthanized to reduce the number of overpopulation of unwanted animals.

The inspiration of this project is a web-based adoption site for people to be more aware of stray animals waiting to be adopted around Thailand. The website is accessible for users and administrators where users can register themselves into the system to view the list of animals waiting to be adopted along with each animal’s records such as their (estimated) age, gender, and their description. The administrators are the main authority of the system and they are responsible for adding, editing, updating, and deleting information if necessary.
2. Statement of the Problem

- **Animal’s Profile**

Most shelter animals have a reputation of being aggressive animals that roam around the streets and are taken in by the animal control because of their wild behavior. Therefore, our project has focused on presenting the user with each animal’s personality descriptions to gain the user’s interest to adopt the animal.

- **Unqualified Adopter**

When an animal is adopted by a person, most organizations do not take caution on whether the animal is taken in by good hands. Therefore a personality evaluation must be taken before someone adopts an animal.

- **Information Retrieval**

Animal adoption shelters usually ask the adopter for their contact information but never actually keep in contact with the people who adopt the animals, especially when their records are difficult to retrieve because they are kept as hardcopies.
3. User Requirements

There are two users involved in the system, the user that is interested in adopting the pet and the administrators who takes care of the web application. The requirements are considered as follows:

**User:**

1. To be able to register as a part of the system.
2. To be able to view the list of animals in the shelters and their basic information order to make decisions to adopt.
3. To be able to send messages or ask questions through the system.
4. To send a request to adopt an animal through the system.
5. To be notified of the adoption results by e-mail.

**Administrator:**

1. To be able to create, update, delete and query the animal’s records in order to manage information.
2. To be able to create, update, delete, and query adoption records to manage information about adoptions made.
3. To be able to approve whether the user who wants to adopt an animal meets the qualifications to raise a pet.
4. To be able to send e-mails to users for their adoption results through the system.
5. To be able to confirm whether the user has come to adopt the animal or canceled their adoption request.
4. Objectives

The goal of this project is to develop a website for users to select animals to adopt conveniently. The main objectives of this website development can be defined as follows:

- To develop a system that provides functions to support users to view the animals in the shelters conveniently.
- To maintain records of animals in the shelters and the users information in a centralized database system.
- To develop a system for administrators to be able to approve the user’s answers to the provided questionnaire.
- To inform users of their result after sending their request to adopt an animal.
- To provide a function to send an e-mail to the user whether they are qualified to adopt the animal or not.
5. Scope and Limitations

Scope of the Project

• **User registration**
  This function allows the user to register as a member to interact with the system. The system requires the user to log-in before going through other processes.

• **User must answer the questionnaire**
  After registering into the system, it is mandatory for the user to fill in the questionnaire about their background, interests, life style and history of raising a pet.

• **Data is input and updated by the administrators**
  All animal’s records are input and updated by the administrators. Animal records such as their name, breed, gender, approximate age, coat color and size.

• **View information online**
  The user can view the records of animals in the shelter by going through categories and lists; our system has three separated categories: Cats, Dogs, and Animals with Special needs. The user can also view information about the shelter and also where to contact the shelter.

• **Adoption requests**
  The user can select the animal they want to adopt and send a request through the system which will then notify the administrator of a new adoption request. The administrator will have to review the questionnaire the user has previously answered to see whether they are capable of adopting an animal or not.

• **E-mail notification**
  After reviewing the questionnaire, the administrator will send an approval E-mail through the system to the user whether they meet the qualifications of being a decent pet owner or not.
• **Adoption confirmation**  
The administrator can confirm to the system whether the user has come to adopt the animal or canceled their adoption request.

• **Recording adoption records**  
The system has a database of past adoption records along with the user’s contact information which can only be viewed by the administrator.

**Limitations**

Every user must go through a set of questionnaires provided by the system after signing up which will then be reviewed by the administrator when the user sends a request to adopt an animal. One of the limitations of this system is that the questionnaires can only be approved by the administrator and not approved automatically in the system, so the administrator has to manually go through each questionnaire done by the user to approve whether the user has the qualifications to adopt an animal or not.
Cost and Benefit Analysis

Cost Analysis

GoDaddy - Web Hosting (Economy)

- 1 website
- 100 GB storage
- Unmetered bandwidth
- 1 free domain
- $3,108/year

Benefits Analysis

1. Users do not have to contact the administrators to know the results of their adoption. They can view their result of their adoption request through e-mail.

2. The reports and information are kept in electronic form and can be easily maintained by the administrators and they can access the records whenever they want to.

3. All reports are kept in an electronic files so that they may last longer and have less chance of being lost or damaged.

4. Administrators can easily manage records such as the animal records, request records, and history records in the system.
Development Tools and Information

Programming Languages

- PHP
- HTML5
- CSS3

Database
- MySQL

Web server
- Apache

Tools manager
- XAMPP

Methodology

1. Project Identification and Selection
In this project, we aimed to develop an online animal adoption system which will focus mainly on managing the animal records.

2. Project Initiation and Planning
To begin the project, we have gather user requirement of this system and prepare the scope and objective. The results from this phase are scope and limitation, objectives, cost and benefits, feature of the proposed system and user interface design.

3. Analyzing System needs
We have studied and identified problems of existing animal shelters, then we develop data flow diagram for the existing system. We also develop data flow diagram (DFD) and entity relation diagram (E-R diagram) for the proposed system.
4. Designing the Proposed System
Based on the analysis phase, we converted E-R diagram into relational database model and created data dictionary and DFD and user interface are designed in this process.

5. Development of the Proposed System
In this phase, we are going to convert the design of proposed system to computer software, which includes computer programming using phpMyAdmin as a software tool written in PHP, which is intended to handle the administration of MySQL, and translating the design specifications into the computer code.

6. Testing the Proposed System
This step is the process of testing whether the programming code will work correctly with the conditions in our system or not. In this phase, we will fix bugs in order to produce a system with maximum performance.

7. Implementing the Proposed System
We wish to launch this system on the internet, so that users are able to view the available animals for adoption and send requests to adopt the animal through the system.
### Project Management

#### Table 8: Gantt Chart for Project Management

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Start</th>
<th>Finish</th>
<th>Duration</th>
<th>Aug-17</th>
<th>Sep-17</th>
<th>Oct-17</th>
<th>Nov-17</th>
<th>Dec-17</th>
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<td>12/08/17</td>
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<td>12/08/17</td>
<td>3d</td>
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<td>Collect Information</td>
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<td></td>
</tr>
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<td>19/08/17</td>
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<td>02/12/17</td>
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<td></td>
<td></td>
<td></td>
</tr>
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<td>22/11/17</td>
<td>7d</td>
<td></td>
<td></td>
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<td>18/11/17</td>
<td>02/12/17</td>
<td>15d</td>
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<tr>
<td>24</td>
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Logical Design of The System

Dataflow Diagram (Context Diagram)
# Data Dictionary

## User

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<tr>
<th>Column</th>
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<th>Description</th>
<th>Example 1</th>
<th>Example 2</th>
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<tbody>
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<td>nook123</td>
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<tr>
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</tr>
<tr>
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<td>Answer</td>
<td>Myself, Family, Other…</td>
<td>Myself, Family, Other…</td>
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## Animal

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<td>D0007</td>
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<td>Name</td>
<td>Joey</td>
<td>Wind</td>
</tr>
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<td>Breed</td>
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<td>Varchar (50)</td>
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<td>Female</td>
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<td>11</td>
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<tr>
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</tr>
<tr>
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<td>Description</td>
<td>Joey is unlike other cats, he is outgoing and also likes to…</td>
<td>Wind has been abandoned by different homes…</td>
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</table>
### Admin

<table>
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<th>Description</th>
<th>Example</th>
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<td>admin2</td>
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<td>Aun</td>
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### Request

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<th>Example</th>
<th>Example</th>
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<td>2</td>
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<td>2</td>
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<td>Animal Name</td>
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<td>Wind</td>
</tr>
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<td>Animal Description</td>
<td>Joey is unlike other cats, he is outgoing and also likes to…</td>
<td>Wind has been abandoned by different homes…</td>
</tr>
<tr>
<td>Surveyanswer.Answer</td>
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<td>No</td>
<td>Survey Answer</td>
<td>Myself, Me, 2…</td>
<td>Myself, My partner, None…</td>
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### History

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<th>Description</th>
<th>Example</th>
<th>Example</th>
</tr>
</thead>
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<td>2</td>
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<td>Unique key to identify each User Username</td>
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<td>nat456</td>
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<td>Unique key to identify each Animal ID</td>
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<td>2</td>
</tr>
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<td>Animal.Name</td>
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<td>No</td>
<td>Animal Name</td>
<td>Joey</td>
<td>Wind</td>
</tr>
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<td>RequestDate</td>
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<td>8/12/2017</td>
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<td>Date of adoption</td>
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<td>Adoption status</td>
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<td>0 = Cancel</td>
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### ContactusMessage

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<th>Example</th>
<th>Example</th>
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<td>Unique key to identify each User.Username</td>
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<td>nat456</td>
</tr>
<tr>
<td>User.Name</td>
<td>Varchar (50)</td>
<td>No</td>
<td>User name</td>
<td>Nook</td>
<td>Nat</td>
</tr>
<tr>
<td>User.Email</td>
<td>Varchar (50)</td>
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<td>User Email</td>
<td><a href="mailto:nook@hotmail.com">nook@hotmail.com</a></td>
<td><a href="mailto:nat@hotmail.com">nat@hotmail.com</a></td>
</tr>
<tr>
<td>Message</td>
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<td>No</td>
<td>Message</td>
<td>Hi, I would like to know how to feed the cat</td>
<td>Hi, I would like to know how to feed the dog</td>
</tr>
</tbody>
</table>
Interface Designs

User

User’s homepage

Featured Pets:

ANGIE
Angie was found in a dumpster near...

BELLA
Bella is a friendly dog...

BILLY
Billy is a sleepy-head. He can sleep for...

MARLEY
Marley and his siblings were found in a...
**Log-in page**

**Sign-up page**
Questionnaire form

View Animals - All
View Animals - Dogs

- **BELLA**
  Bella is a family friendly dog...

- **DAISY**
  Daisy is one of the sweetest girls in...

- **LUCY**
  Poor Lucy just wants a forever home to...

- **LEO**
  This poor baby was abandoned by...

- **MARLEY**
  Marley and his siblings were found in...

- **THOR**
  We all know Thor the god of thunder, but...

View Animals - Cats

- **CHOCO**
  Choco was named after her black shiny...

- **CHLOÉ**
  Chloé was found at the garage...

- **EMMY**
  Meet Emmy the adventurous...

- **HALO**
  Poor Halo was found in a bag at the...

- **JIM**
  Jim is an independent cat...

- **QUINCY**
  Quincy was a kitten when he was found...
View Animals - Pets with Special Needs

Animal Adoption

Animal
- All
- Dogs
- Cats
- Pets with Special Needs

Age

Gender

Coat Length & Color

Search

ARMY
Army has leg paralysis, making him...

ANNE
Annie was beaten by her previous...

ANGIE
Angie was found in a dumpster near...

FELIX
Felix is a deaf cat. He is unable to...

MAXY
Mary's back legs are unable to...

PENNY
Penny is a loving companion but...

1 2 3 ... 20 21 22

View Animals’ Profile

Animal Adoption

Animal
- All
- Dogs
- Cats
- Pets with Special Needs

Age

Gender

Coat Length & Color

Search

SHADOW
Location found: Ladprao, Bangkok
Approximate age: 9 months

Shadow is a very laid back cat who just loves to chill. He was found as a stray that had taken up residence outside of a local home. All he wanted was to come inside. That Good Samaritan brought Shadow to us in hopes that he would find that forever, inside home that he yearns for. Shadow likes to cuddle, likes to drink water from a faucet, loves to talk and chatter.

Adopt Me!
ABOUT US

ANIMAL ADOPTION

The Animal Adoption Shelter provides spay/neuter and veterinary health services for stray or community animals, adoption programs as well as responsible pet ownership education in Bangkok.

Our goal is to create a smaller and healthier street and community animal population in Bangkok and Thailand.
Contact Us - Send message

We would love to hear from you!
Please use the Contact Form to send us a message.

Name:

Message:

Your Email Address:

Send

Administrator

Administrator: Homepage - Manage Animals

ANGIE
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla

BELLA
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla

BILLY
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla

LEO
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla

MAXY
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla

QUINCY
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla
**Administrator: Edit Animals**

![Edit Animals Interface](image1)

**Administrator: Add Animal**

![Add Animal Interface](image2)
Administrator: View requests

Administrator: View Users' Request
**Administrator: View Users' Messages**

<table>
<thead>
<tr>
<th>User Username</th>
<th>Name</th>
<th>User Email</th>
<th>Message</th>
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<tbody>
<tr>
<td>nook123</td>
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<td>Click here to see detail.</td>
</tr>
<tr>
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<td><a href="mailto:siwa@hotmail.com">siwa@hotmail.com</a></td>
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</tr>
<tr>
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<td>Wind</td>
<td><a href="mailto:nnv4@hotmail.com">nnv4@hotmail.com</a></td>
<td>Click here to see detail.</td>
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</table>

**Administrator: View Adoption History**

<table>
<thead>
<tr>
<th>Request ID</th>
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<th>Animal ID</th>
<th>Request Date</th>
<th>Adoption Date</th>
<th>Contact Information</th>
<th>Status</th>
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<tbody>
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<td>11/12/2017</td>
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<tr>
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<td>SC0903</td>
<td>18/12/2017</td>
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