



# **Thammasat University**

*Sirindhorn International Institute of Technology*

**CSS326 - Database Programming Laboratory**

**Animal Adoption Website**

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## Introduction

Pet adoption is a meaningful way to offer unwanted or abandoned animals a loving home while also obtaining a beloved friend. It contributes to the struggle against animal homelessness and overpopulation by funding shelters and rescue activities. Individuals who adopt rather than buy save lives, encourage kindness, and form long-term ties with their pets.

This idea was inspired by a web-based adoption service that raises awareness of stray animals waiting to be adopted around Thailand. The website is open to both users and administrators, and users may register to view the list of animals waiting to be adopted, as well as each animal's information such as age, gender, and description. Administrators are the system's authority and are in the role of adding, altering, updating, and removing information as needed.

## Objective

The purpose of this project is to design and create a complete website that simplifies the pet adoption procedure for users while assuring effective administration for administrators. Users will be able to simply explore a selection of animals available at shelters, with thorough information about each pet to enable potential adopters to make informed decisions. A centralised database system will be created to securely store and manage animal records, as well as user data. Administrators will be able to review and approve user answers to a specified adoption. When a user makes an adoption request, the system notifies them of the results and provides regular updates on the status of their application.

## User Requirements

The system involves two users: the person who wants to adopt the pet and the administrators who manage the online service. The requirements are assessed as follows:

### **Administrator**

The administrator is responsible for controlling the system by executing a variety of vital activities. They can add, update, delete, and query animal records to verify that the information about the shelter's animals is accurate and up to date. They can also handle adoption records by conducting similar activities to keep track of all adoptions processed through the system. Administrators are also responsible for determining whether users fit the requirements to adopt a pet and accepting or rejecting their adoption requests accordingly. Furthermore, they can validate if consumers have finished the adoption process or cancelled their requests, while keeping clear and organised records throughout.

### **User**

Users play an important part in the system, with numerous critical features meant to speed up the adoption process. They may sign up to become members of the site and obtain access to its features. Once registered, customers can look over a full list of animals, including basic information, to assist them make informed adoption selections. They can also send messages through the system to converse or learn more about adoption-related issues. Furthermore, users may submit adoption requests immediately through the site and receive notifications of the outcomes, guaranteeing an efficient and transparent adoption process.

## Tools and Resources for Development

Programming Languages

Database

- MySQL

Front-End

- HTML5
- CSS3
- JavaScript

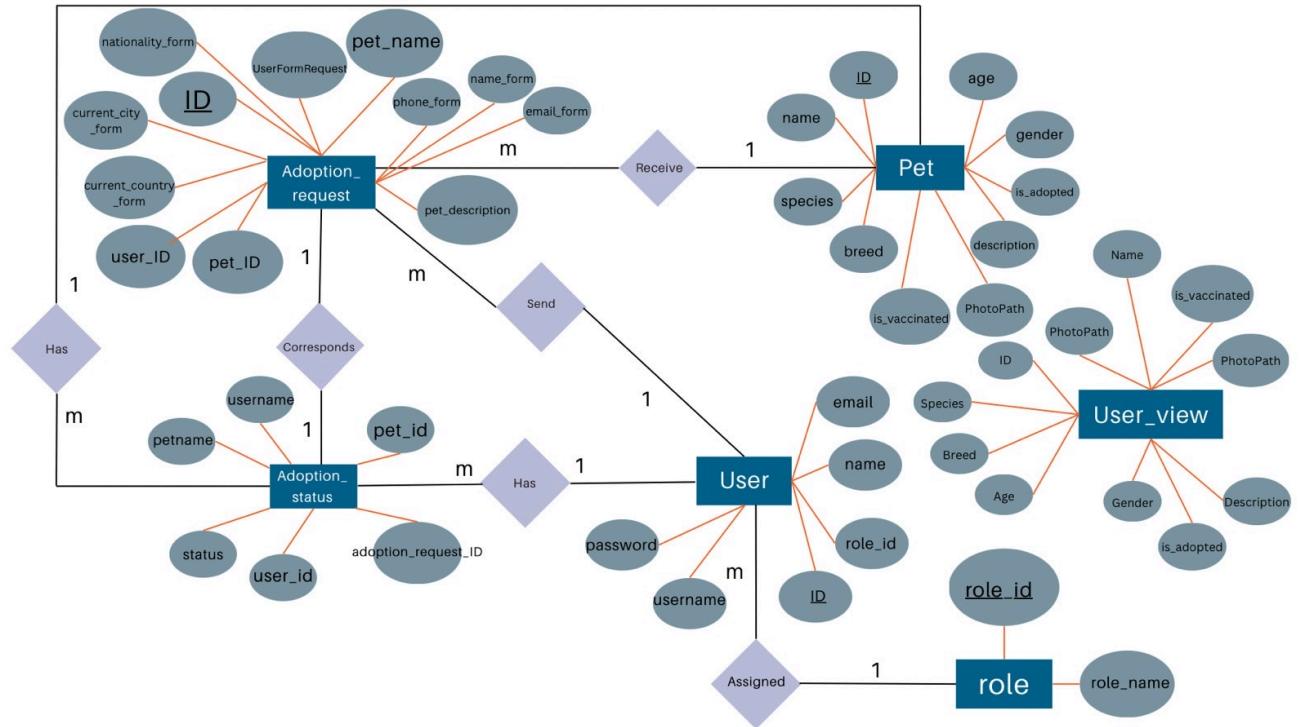
Back-End

- JavaScript
- PHP

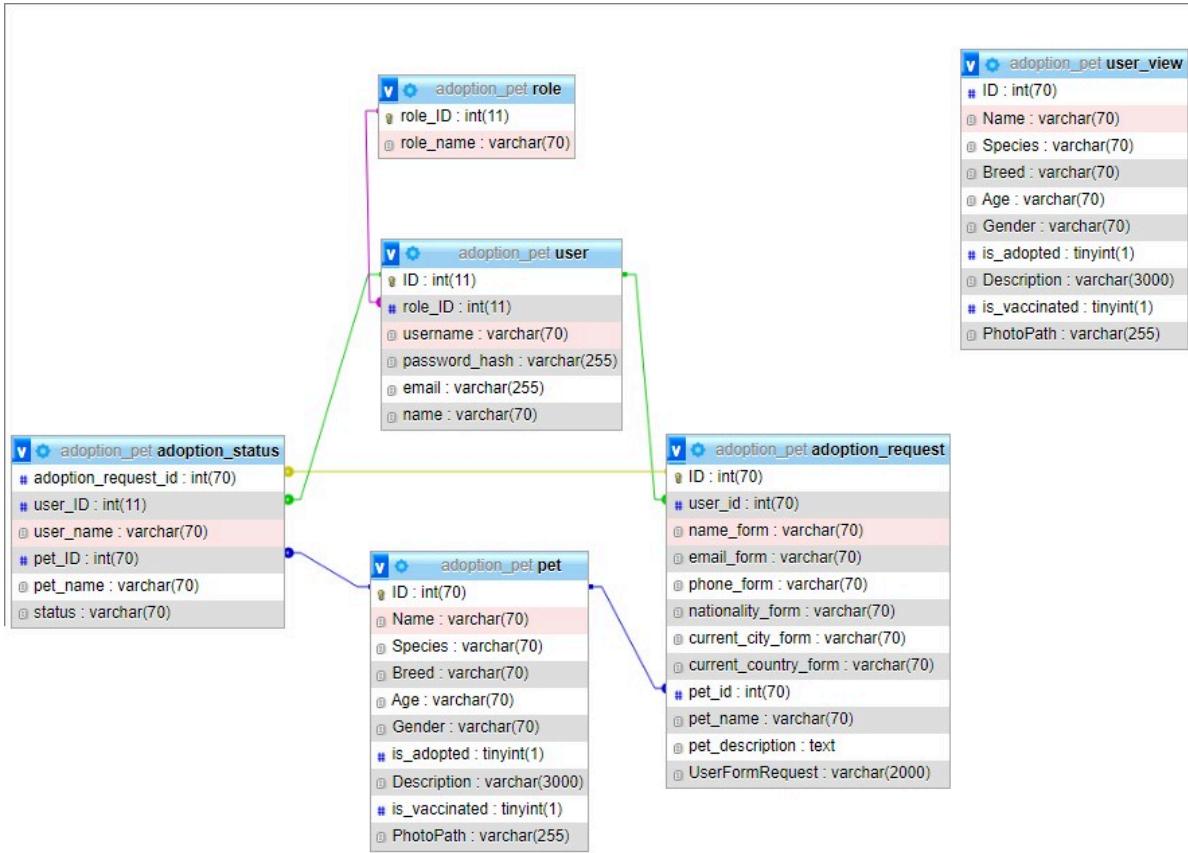
## Project Management

Month	Date	Plan
November	6	Decide to change the webpage style
November	8	Continue coding
November	14	Complete HTML coding
November	18	Do PHP coding
November	20	Continue coding
November	22	Team reviews content for errors and makes design adjustments
November	26	Test and check the website
November	28	Project submission and presentation

## Entity Relationship Diagram (ERD)



## MySQL and Relationships



**role** (Stores different roles that users can have.)

- role\_ID (Primary Key): Unique identifier for each role.
- role\_name: Name of the role (e.g., Admin, User).

**user** (Stores information about the users of the system.)

- ID (Primary Key): Unique identifier for users.
- role\_ID (Foreign Key): References role\_ID in the role table, indicating the role of the user.
- Username: User's login name.
- Password: User's password.
- Email: User's email address.

- Name: User's full name.

**pet** (Stores details about pets available for adoption.)

- ID (Primary Key): Unique identifier for each pet.
- Name: Name of the pet.
- Species: Type of animal (e.g., Dog, Cat).
- Breed: Breed of the pet.
- Age: Age of the pet.
- Gender: Gender of the pet.
- is\_adopted: Boolean value indicating whether the pet has been adopted.
- is\_vaccinated (Boolean): Indicates if the pet is vaccinated.
- Description: Additional information about the pet.
- PhotoPath: File path to the pet's photo.

**adoption\_request** (Tracks adoption requests made by users for specific pets.)

- ID (Primary Key): Unique identifier for each adoption request.
- user\_id (Foreign Key): References ID in the user table.
- name\_form: Applicant's name.
- email\_form: Applicants email.
- phone\_form: Applicant's phone number.
- nationality\_form: Applicant's nationality.
- current\_city\_form: Applicant's current city.
- current\_country\_form: Applicant's current country.
- pet\_id (Foreign Key): References ID in the pet table.
- pet\_name: Name of the pet in the request.
- pet\_description: Description of the pet in the request.
- UserFormRequest: Additional user-submitted form information.

**adoption\_status** (Tracks the status of each adoption request.)

- adoption\_request\_id (Primary Key): Unique identifier for adoption status, linked to a specific request.
- user\_ID (Foreign Key): References ID in the user table.
- user\_name: Name of the user in the adoption request.
- pet\_ID (Foreign Key): References ID in the pet table.
- pet\_name: Name of the pet in the status.
- status: Current status of the adoption request (e.g., Pending, Approved, Rejected).

**user\_view** (Appears to be a view (a virtual table) for easier queries of pet details.)

- ID: ID of the pet.
- Name: Name of the pet.
- Species, Breed, Age, Gender: Pet attributes.
- Description: Description of the pet.
- is\_adopted: Indicates if the pet is adopted.
- PhotoPath: File path to the pet's photo.

## Relationships

1. role -> user:

role\_ID in user references role\_ID in role. Each user has a role (e.g., Admin or Regular User).

- One-to-Many

2. user -> adoption\_request:

user\_id in adoption\_request references ID in User.

Each adoption request is linked to a user.

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- One-to-Many

3. pet -> adoption\_request:

pet\_id in adoption\_request references ID in pet. Each request involves a specific pet.

- One-to-Many

4. adoption\_request -> adoption\_status:

adoption\_request\_id in adoption\_status references ID in adoption\_request. Each status corresponds to a request.

- One-to-One

5. user and pet -> adoption\_status:

user\_ID and pet\_ID in adoption\_status references user.ID and pet.ID respectively. Tracks which user and pet are involved in the status.

- One-to-Many

## User Privilege in Database Accessing

User name	Host name	Type	Privileges	Grant	Action
admin	localhost	wildcard: adoption_pet	ALL PRIVILEGES	No	Edit privileges  Export
mysql.infoschema	localhost	global	SELECT	No	Edit privileges  Export
root	localhost	global	ALL PRIVILEGES	Yes	Edit privileges  Export
staff	localhost	wildcard: adoption_pet	SELECT, INSERT, UPDATE, DELETE	No	Edit privileges  Export

### adoption\_pet

- admin (ALL PRIVILEGES)
- mysql.infoschema (SELECT)
- root (ALL PRIVILEGES)
- staff (SELECT, INSERT, UPDATE, DELETE)

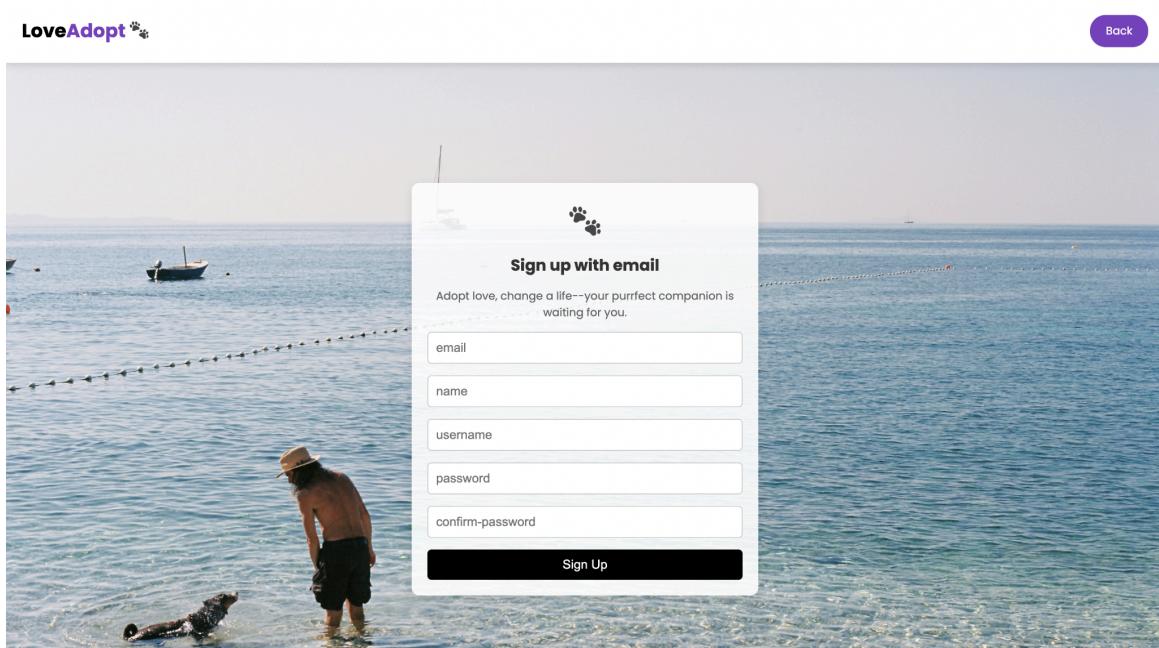
User name	Host name	Type	Privileges	Grant	Action
admin	localhost	wildcard: adoption_pet	ALL PRIVILEGES	No	Edit privileges  Export
mysql.infoschema	localhost	global	SELECT	No	Edit privileges  Export
root	localhost	global	ALL PRIVILEGES	Yes	Edit privileges  Export
staff	localhost	wildcard: adoption_pet	SELECT, INSERT, UPDATE, DELETE	No	Edit privileges  Export
user	localhost	table-specific	USAGE	No	Edit privileges  Export

### adoption\_pet.user\_view

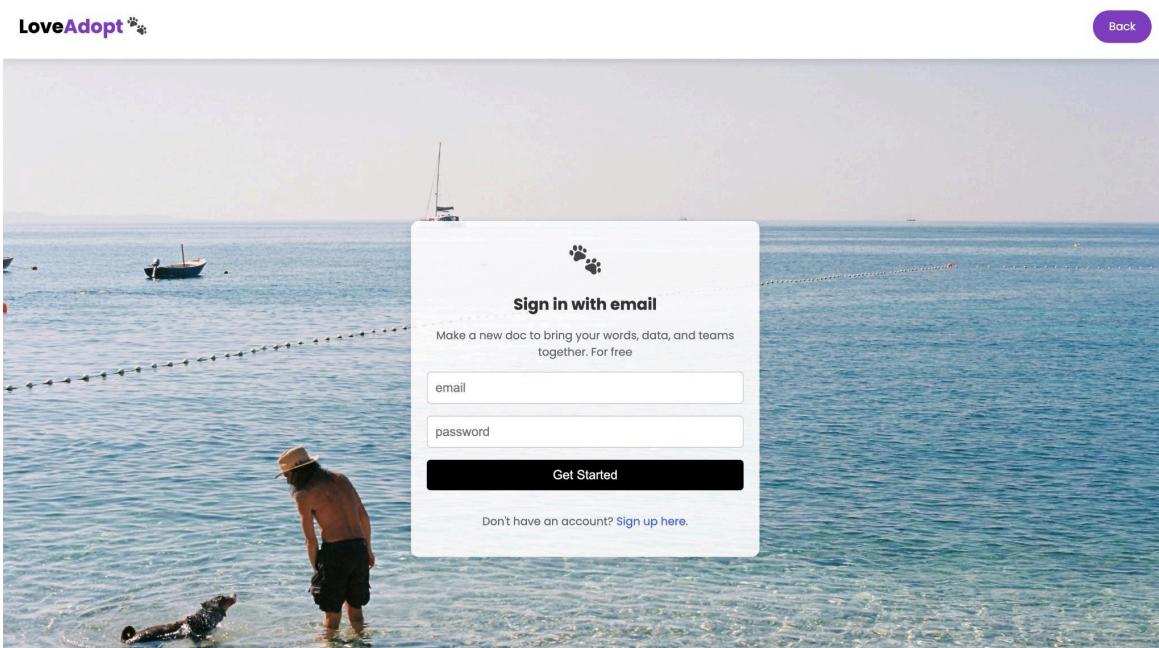
- admin (ALL PRIVILEGES)
- mysql.infoschema (SELECT)
- root (ALL PRIVILEGES)
- staff (SELECT, INSERT, UPDATE, DELETE)
- user (USAGE)

## Interface design

### Sign up page



### Login page



## Home page

**Welcome deshdon**

Home About us Pets Profile Admin Panel Log out

# Adopt love, foster happiness.

**Our happy pet owners**  
4.8 (1.5k Reviews)



**WANT TO KNOW MORE ABOUT US?**

Learn more about our mission, values, and the story behind what we do on our About Us page!

[Learn more](#)

**WHAT WE DO?**

With a focus on matching the right pet with the right family, LoveAdopt makes it easy to adopt love and foster happiness.

[View pets](#)

localhost:8888/webpage1.php

## About us page

**The path to a happier life just got brighter!**



At LoveAdopt, we are dedicated to ensuring every animal finds a loving home and every family discovers the joy of pet companionship. Our mission extends beyond adoption—we aim to educate pet owners, promote animal welfare, and foster a compassionate community. LoveAdopt is here to guide and support you.

[Learn More](#)

**Choose Your Path**

Adopt a Pet      Volunteer      Donate

## User profile page

The screenshot shows the user profile page for a user named 'deshdon'. The left sidebar contains links for Profile, Adoption Requests, and Logout. The main content area has sections for 'User Profile' and 'Pet Adoption Tracking'. The 'User Profile' section displays Name (deshdon), Email (deshdon@gmail.com), and Username (deshdon). The 'Pet Adoption Tracking' section indicates 'No adoption request found.'

localhost:8888/Userprofile.php

## Admin pages

The screenshot shows the 'Manage Users' page in the Admin Panel. The sidebar on the left lists Admin Panel, Manage Users, Manage Pets, Adoption Requests, and Add Pets. The main content area displays a table of users with columns for User ID, Name, Email, and Actions (Delete). The table data is as follows:

User ID	Name	Email	Actions
2	deshdon	deshdon@gmail.com	Delete
22	deshdon	deshdon77@gmail.com	Delete
23	deshdon	deshdon77@gmail.com	Delete
24	dwaad	test2@gmail.com	Delete
25	desh	deshdon88@gmail.com	Delete
26	test	test99@gmail.com	Delete
27	dwaada	tututu@gmail.com	Delete
28	dada	dioadaih@gmail.com	Delete
29	dwadada	nat@gmail.com	Delete

**Admin Panel**[Manage Users](#)[Manage Pets](#)[Adoption Requests](#)[Add Pets](#)**Manage Pets**

Pet ID	Name	Age	Species	Breed	Vaccinated	Status(is_adopted)	Actions
47	Carrot	2	Cat	Siamese	Yes	Adopted	<a href="#">Delete</a>
48	Kuma	1	Cat	Scottish fold	Yes	Available	<a href="#">Delete</a>
49	Dexter	10	Dog	Hairy dog	No	Available	<a href="#">Delete</a>
50	Punch	21	Cat	Aggressive cat	Yes	Available	<a href="#">Delete</a>
51	Berm The Big Boy	3	Dog	Blob fish	Yes	Available	<a href="#">Delete</a>
52	Kamu	2	Cat	Scottish fold	Yes	Available	<a href="#">Delete</a>

**Admin Panel**[Manage Users](#)[Manage Pets](#)[Adoption Requests](#)[Add Pets](#)**Adoption Requests**

Request ID	User Name	Email	Phone	Pet Name	Status	Actions	Form Answers
No pending requests found.							

### Admin Panel

Manage Users  
Manage Pets  
Adoption Requests  
Add Pets

**Pet Name:**

**Pet Photo:**  
 No file chosen

**Species:**

**Breed:**

**Age:**

**Gender:**

**Vaccination Status:**  
 Yes  No

**Description:**

**Add Pet**

## Pet form page

### X

### Adopt Kuma



**Species:** Cat  
**Breed:** Scottish fold  
**Age:** 1 years  
**Gender:** Female  
**Description:** Kuma is a black funny cat. But she is a little fat because she likes to eat a lot of food.

### Adoption Process

## Pet browsing page

**LoveAdopt** 

Home   About us   Pets   Profile   Admin Panel   [Logout](#)

# Find Your New Best Friend

Explore a variety of pets looking for a loving home. Adopt love, foster happiness.





**Kuma**  
Species: Cat  
Breed: Scottish fold  
Age: 1 years  
Gender: Female

[Adopt me](#)



**Dexter**  
Species: Dog  
Breed: Hairy dog  
Age: 10 years  
Gender: Male

[Adopt me](#)



**Punch**  
Species: Cat  
Breed: Aggressive cat  
Age: 21 years  
Gender: Female

[Adopt me](#)



**Berm The Big Boy**  
Species: Dog  
Breed: Blob fish  
Age: 3 years  
Gender: Male

[Adopt me](#)



**Kamu**  
Species: Cat  
Breed: Scottish fold  
Age: 2 years  
Gender: Female

[Adopt me](#)