

FUREVER HOME

A PROJECT REPORT

Submitted by

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In partial fulfilment for the award of the degree of

DIPLOMA ENGINEERING

in

Computer Engineering



Marwadi
University
Marwadi Chandarana Group



Faculty of Diploma Studies

Marwadi University, Rajkot



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Faculty of Diploma Studies

Computer Engineering Department

2025-26

CERTIFICATE

This is to certify that the project entitled **FUREVER HOME** has been carried out by **Parthrajsinh Jadeja (92300938082)** under my guidance in partial fulfilment of the degree of Diploma Engineering in Computer Engineering (6th Semester) of Marwadi University, Rajkot during the academic year 2025-26.

Date: / / 2026

Internal Guide

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With Sincere Regards

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Abstract

FurEver (Rajkot) is a web-based pet adoption system developed to digitalize and simplify the traditional adoption process in Rajkot, Gujarat. The platform serves as a bridge between NGOs, users, and administrators, ensuring transparency, efficiency, and responsible pet ownership. The system is organized into three role-based panels—User Panel, NGO Panel, and Admin Panel—to provide clear separation of features and smooth operation. Users can register with OTP-based email verification, browse adoptable pets with filters such as species, breed, city, or age, apply for adoption, manage their profiles, and track request statuses. NGOs, once approved by the admin, can register their shelters, add or update pet listings with descriptions and images, handle adoption requests, and mark pets as adopted. The Admin Panel oversees NGO approvals, user account management, adoption activity monitoring, and overall system control.

The project is implemented using HTML, CSS, Bootstrap for a responsive frontend, PHP for backend scripting and server-side logic, MySQL for database management, and JavaScript/jQuery for client-side interactivity. The database is designed with relational tables, foreign key constraints, and status-based updates to ensure integrity and avoid permanent deletions. By integrating structured data handling with a professional, responsive, and PHP-powered architecture, FurEver (Rajkot) delivers a reliable and transparent platform that promotes pet adoption, supports NGOs, and strengthens animal welfare in the community.

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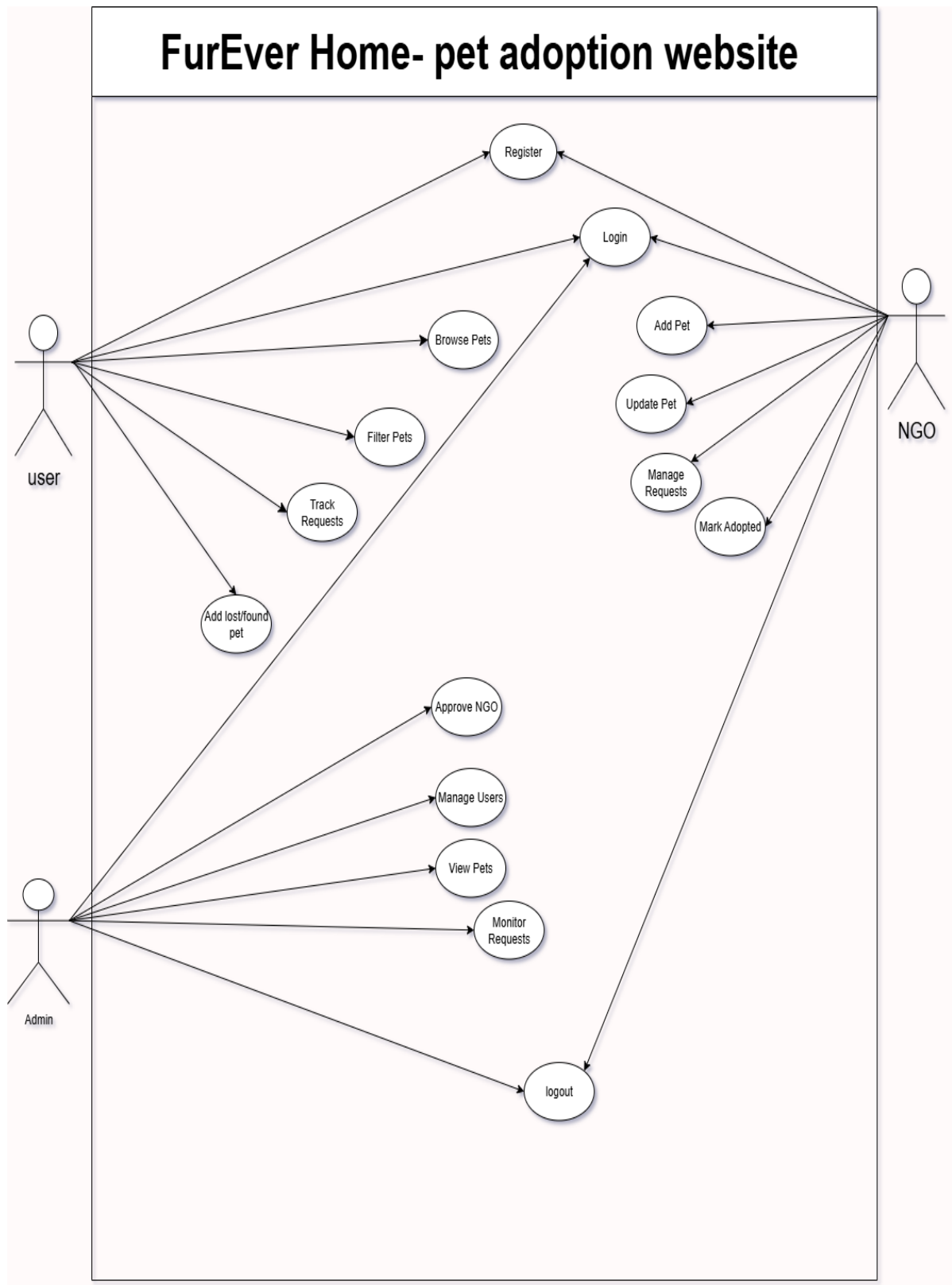


Figure 1.1 Use Case Diagram

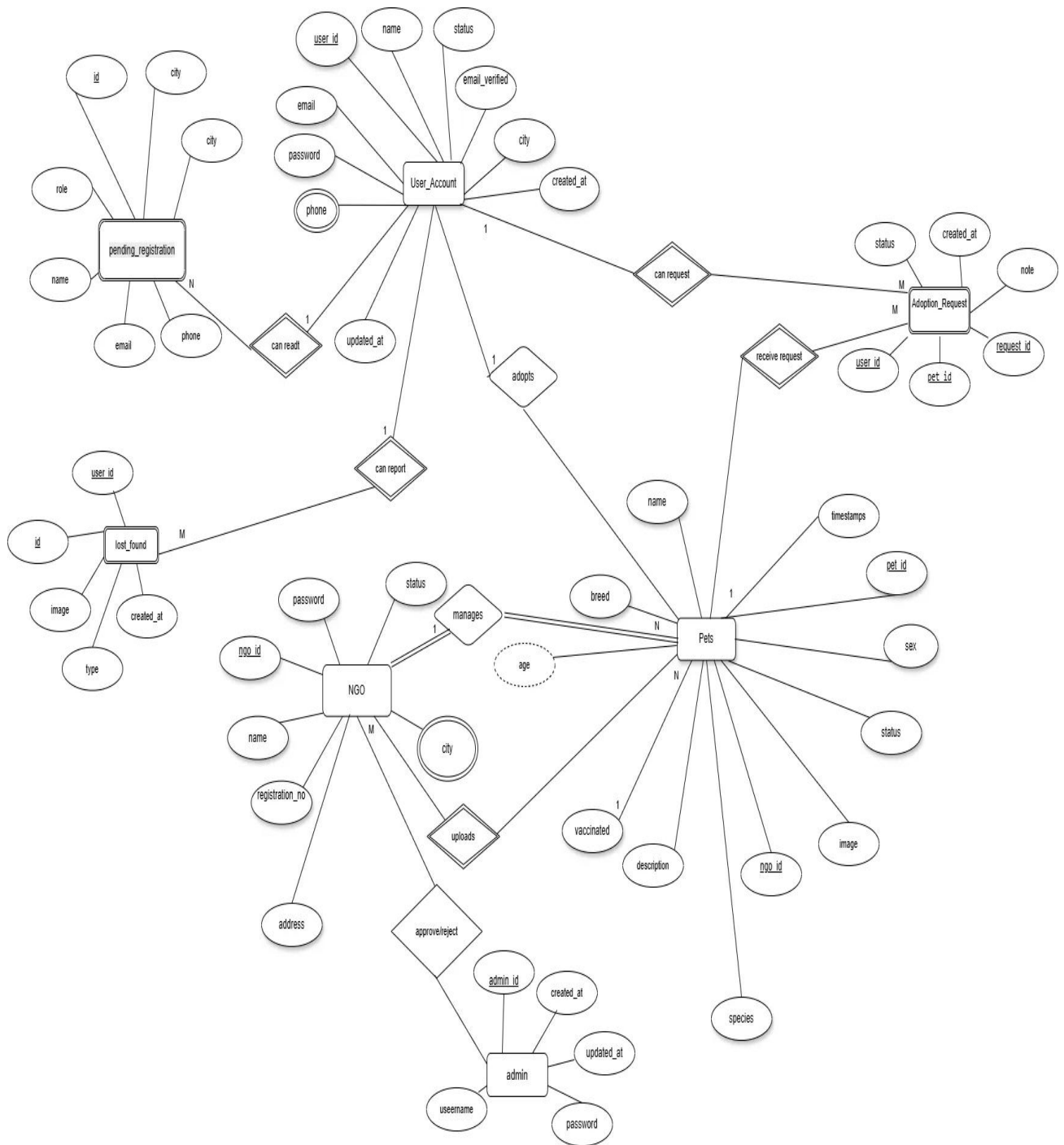


Figure 1.2 ER Diagram

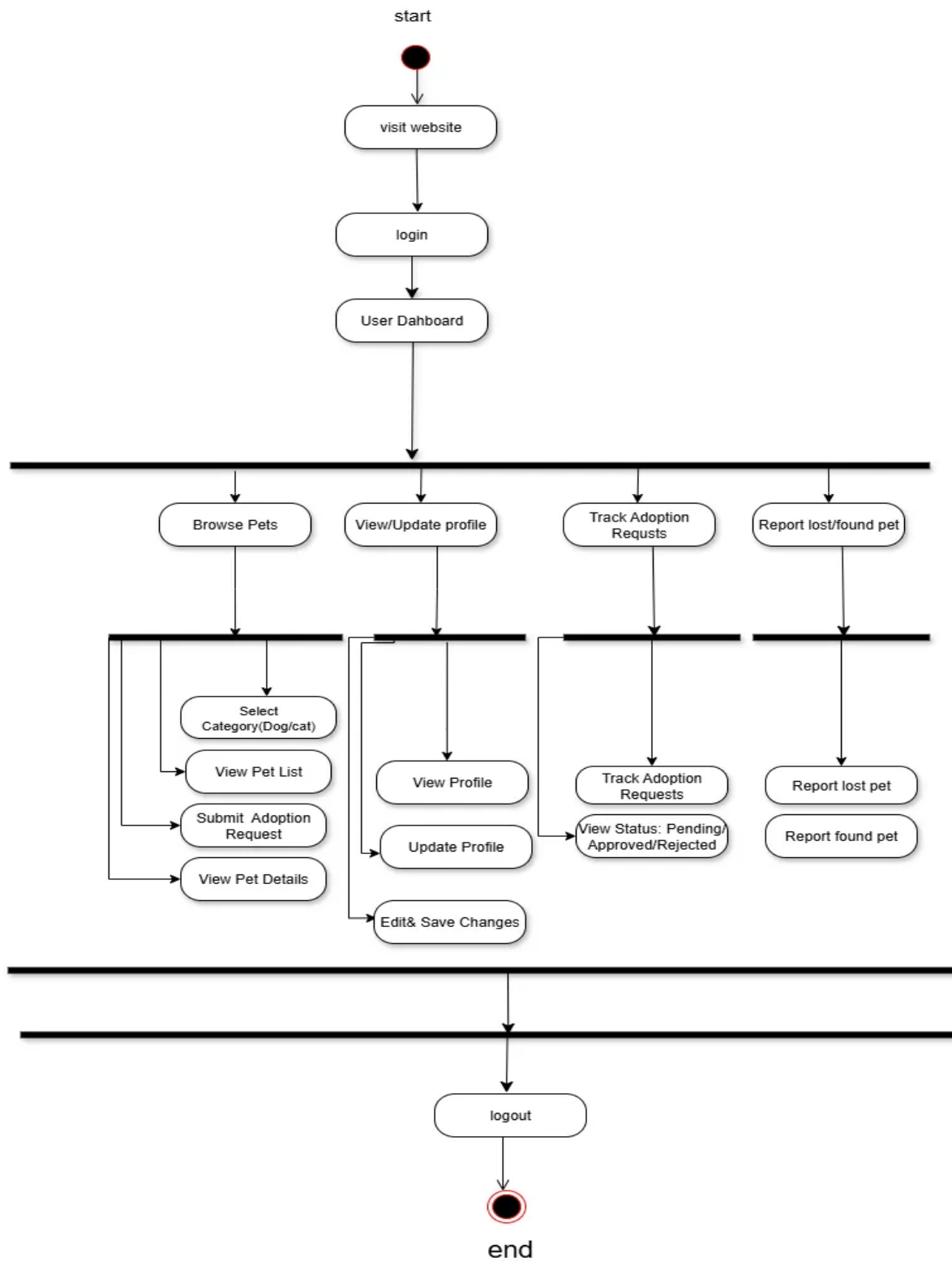


Figure 1.3.1 Activity Diagram (User)

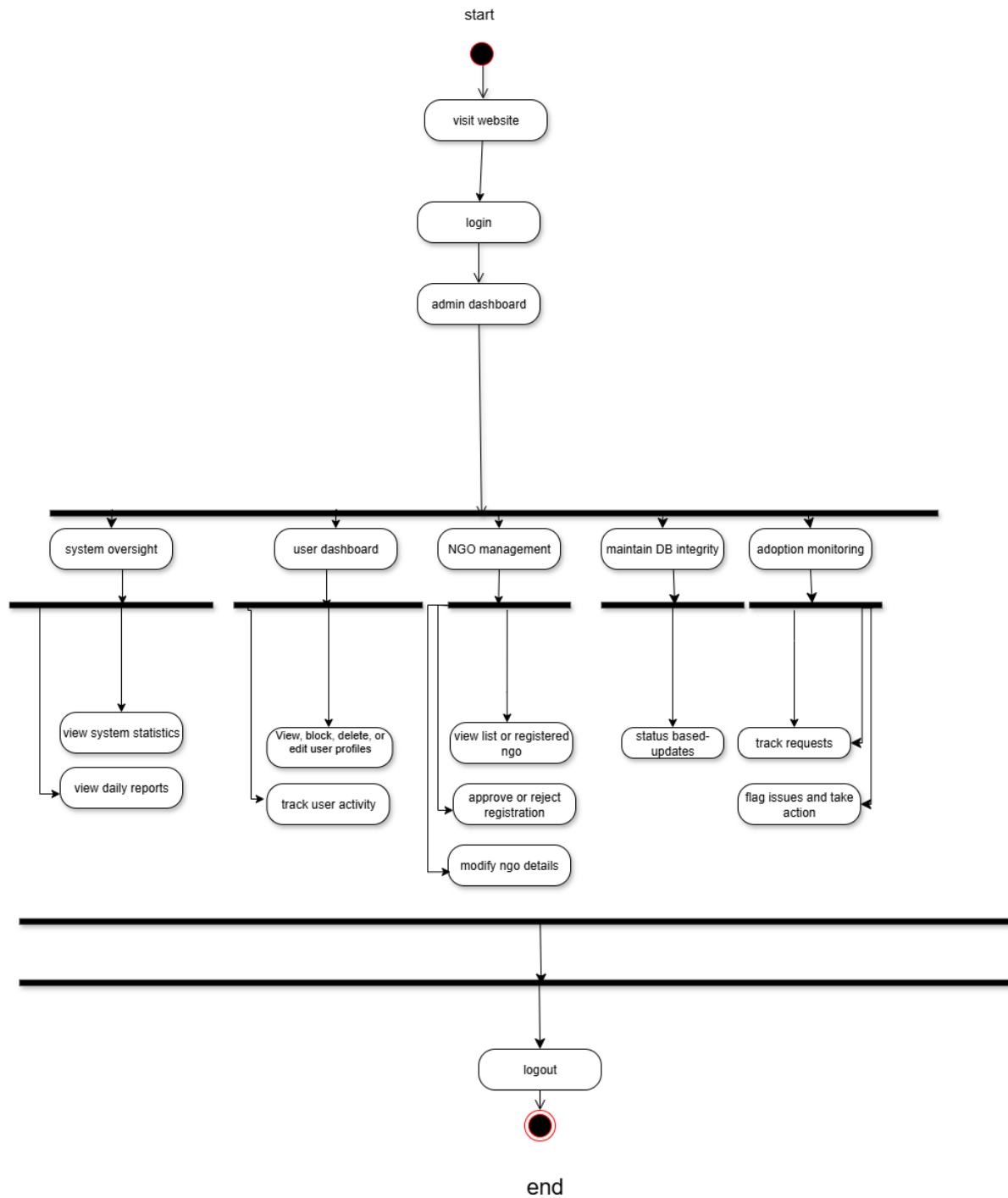


Figure 1.3.2 Activity Diagram(Admin)

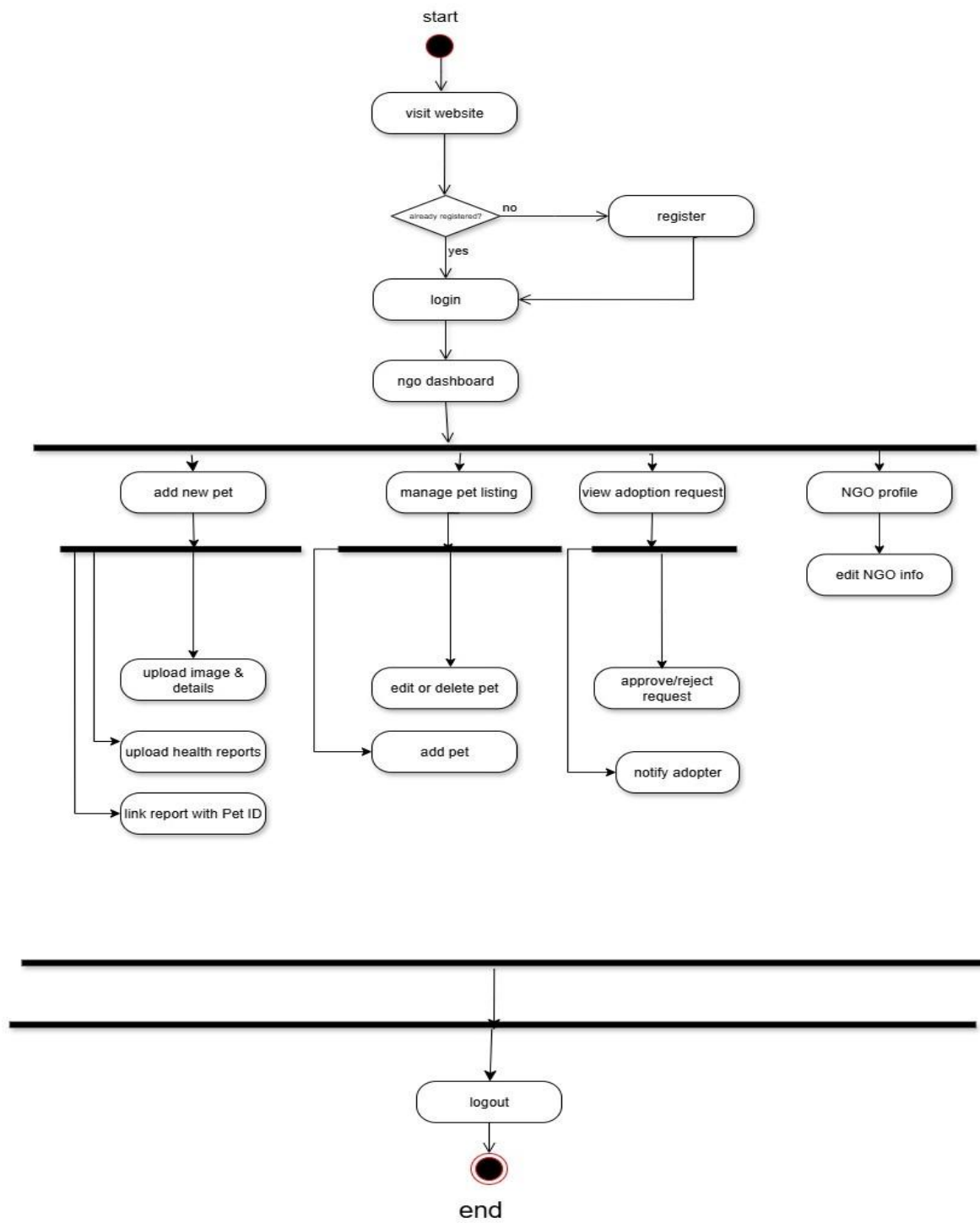


Figure 1.3.3 Activity Diagram (NGO)

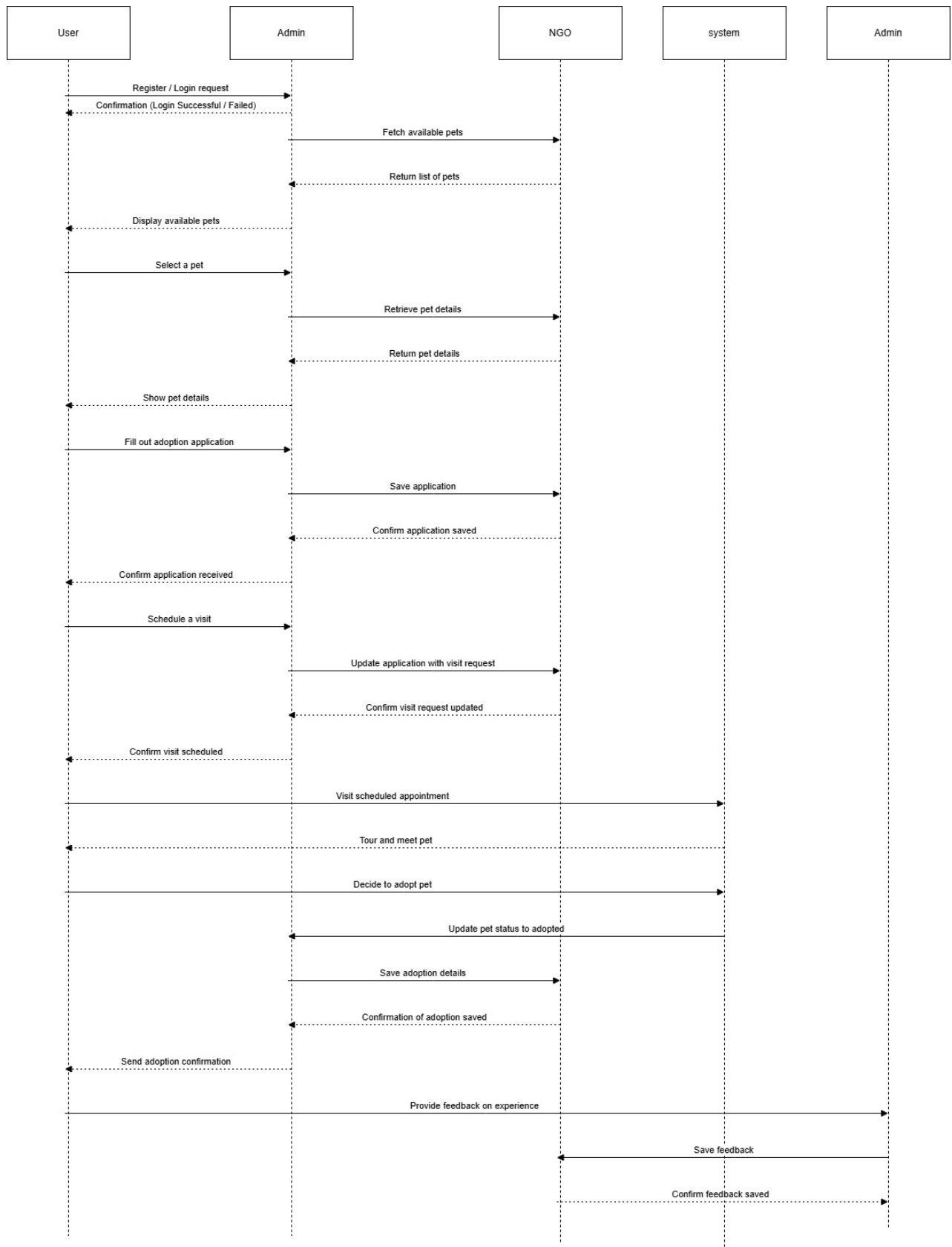


Figure 1.4 Sequence Diagram

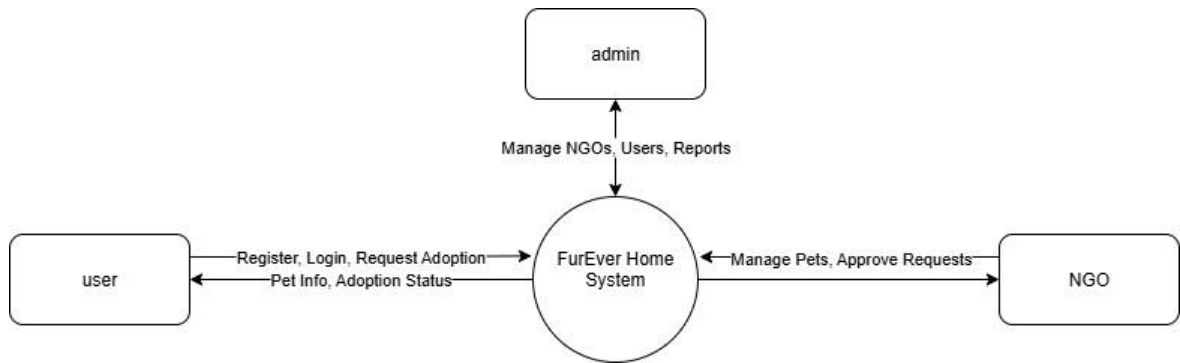


Figure 1.5 DFD (LEVEL 0)

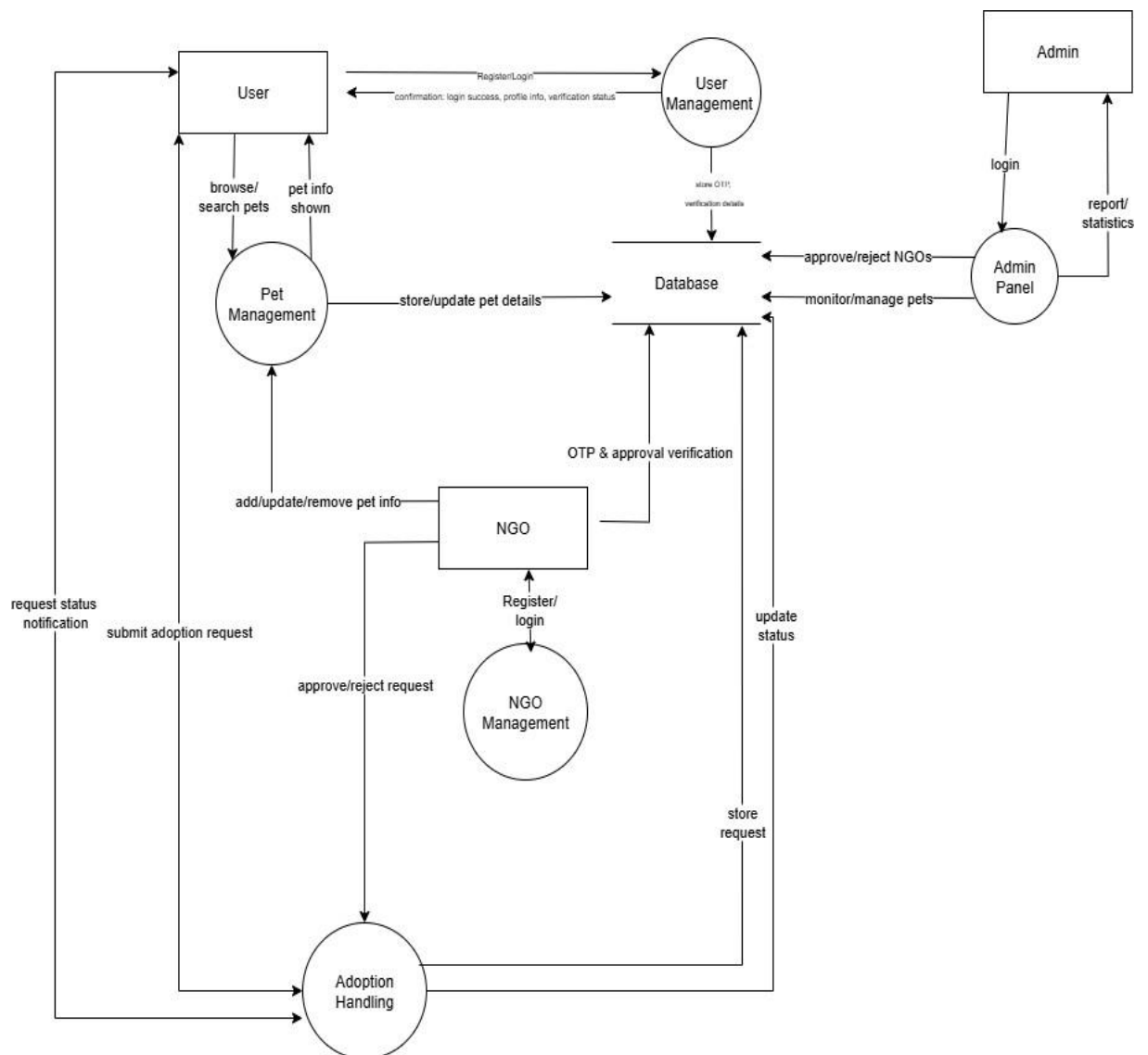


Figure1.6 DFD (Level 1)

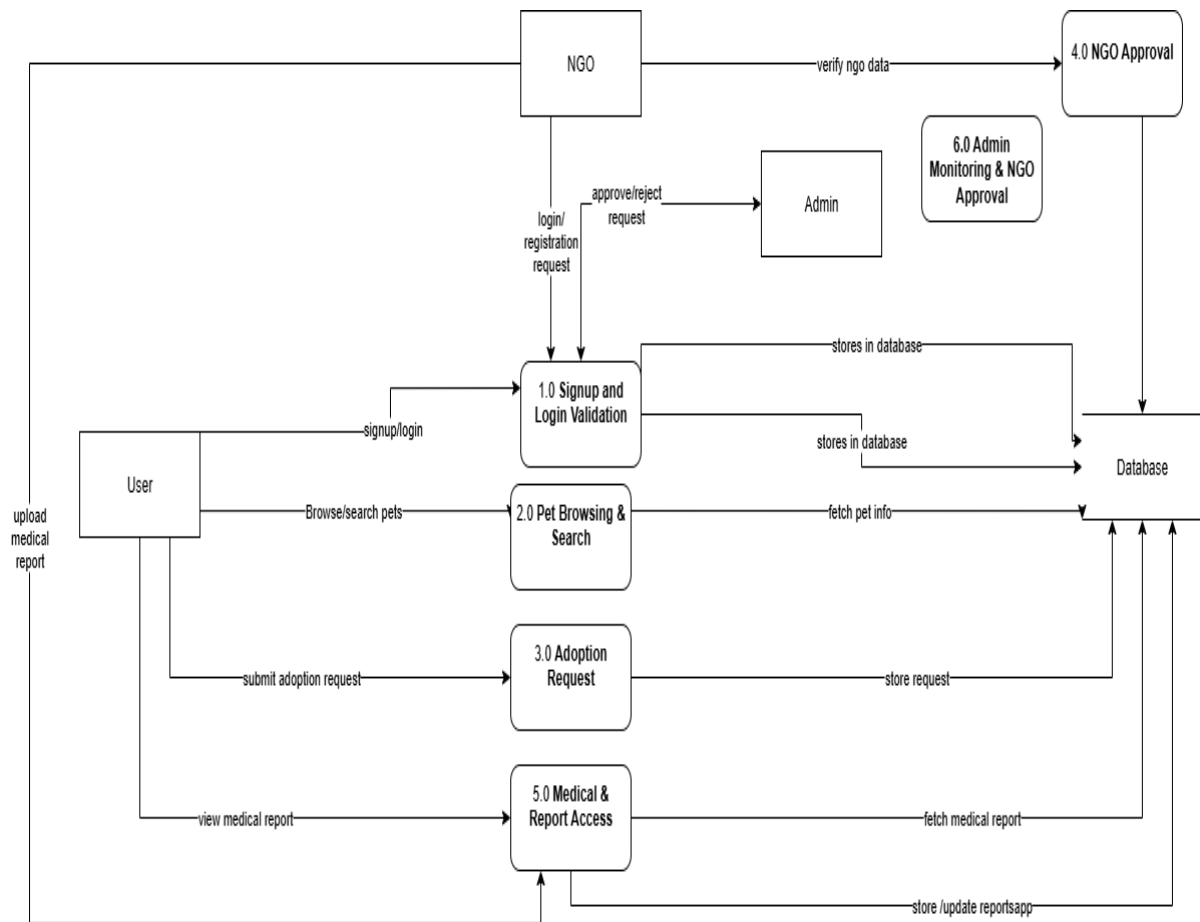


Figure 1.7 DFD (level 2)

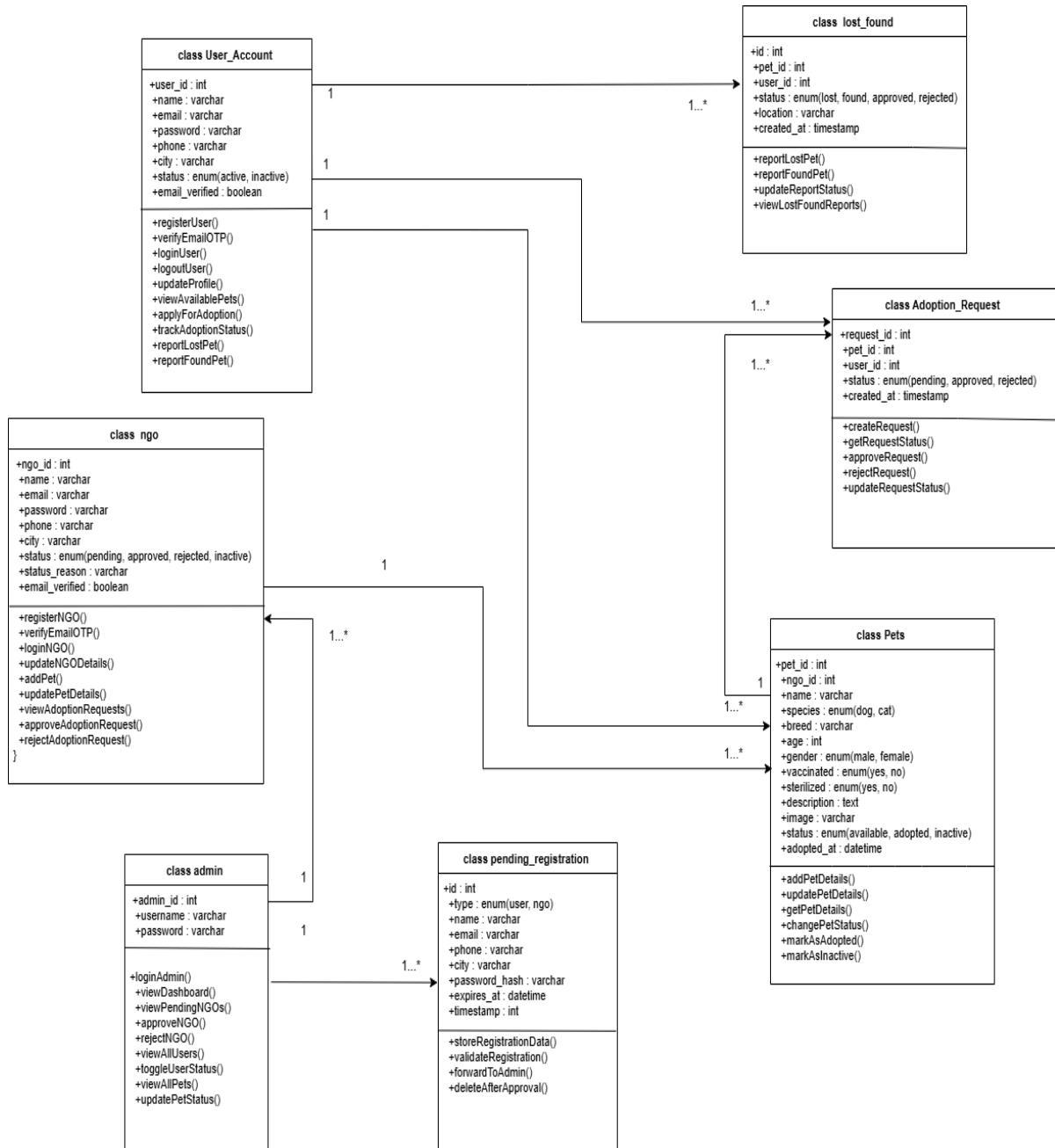


Figure 1.8 Class Diagram

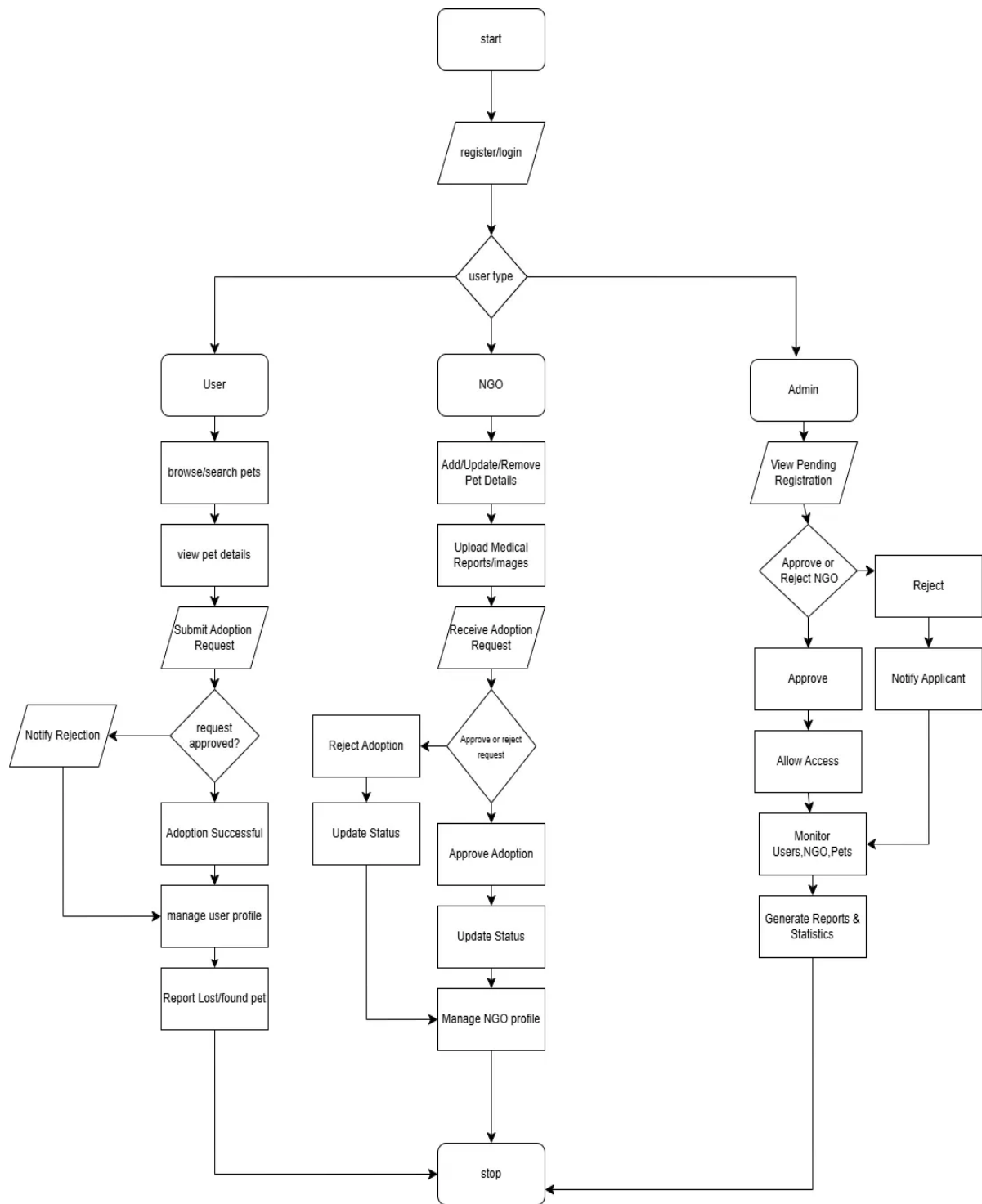


Figure 1.9 Flowchart Diagram

1. Introduction

FurEver (Rajkot) is a web-based pet adoption system designed to digitalize the traditional adoption process in Rajkot, Gujarat. It serves as a bridge between NGOs, users, and administrators. NGOs can register and list adoptable pets after admin approval, users can browse available pets and apply for adoption, and the admin oversees the entire platform to ensure smooth functioning and transparency. The system promotes responsible pet ownership by allowing users to view pets with filters such as species, breed, city, and age, and track their adoption requests. NGOs can manage their own pets, handle adoption requests, and mark pets as adopted, while admins manage NGO approvals, user accounts, pets overview, and monitor adoption activities.

1.1 Document Purpose

The purpose of this SRS is to define the complete functionality of the FurEver Home platform as a whole, covering all major components such as pet browsing, adoption request management, NGO registration and management, user profile handling, and admin supervision of adoption activities. It describes the three main user interfaces—User (adopters), NGO (organizations), and Admin (management)—and specifies the technologies to be used, including HTML, CSS, JavaScript, PHP, and MySQL. This document provides a comprehensive foundation for the design, development, testing, and deployment of the system, ensuring clarity of scope and alignment among all stakeholders.

1.2 Product Scope

The software being specified is FurEver Home, a web-based application designed to digitalize and streamline the pet adoption process in Rajkot. The primary purpose of FurEver Home is to provide a centralized, user-friendly platform where individuals can browse pets, apply for adoption, and track their requests, while NGOs can register, manage pet listings, and handle adoption applications under the supervision of an admin. The key objectives of FurEver Home are to simplify the adoption process for users, increase transparency and efficiency for NGOs, and ensure effective oversight by administrators. The ultimate goal is to create a reliable, responsive, and interactive system that modernizes the traditional pet adoption .

1.3 Intended Audience and Document Overview

- **Client:** To review the project scope, understand key features like adoption, lost & found, Pet Mate, and ensure alignment with expectations.
- **Developers:** To refer to detailed functional and non-functional requirements, use cases, and system flow for implementation.
- **Testers:** To identify testable components and create validation scenarios based on system behaviour.
- **Documentation & UI Team:** To understand user interactions and site structure for preparing user guides and front-end design.
- The document begins with an overview of the system, followed by a description of the overall system behavior, the detailed list of requirements, and concludes with supporting diagrams and features

1.4 Definitions, and Abbreviations

AJAX	Used to create fast, dynamic web pages by exchanging data with a server in the background.
API	A set of rules that allows different software applications to communicate with each other.
CSS	Used to style the appearance of web pages.
DB	A structured collection of data that can be accessed and managed electronically.
HTML	Standard language for creating web pages and web applications.
JS	Programming language used to create interactive effects within web browsers.
PHP	Server-side scripting language used for web development.

UI	Space where interactions between humans and machines occur.
UX	The overall experience a user has while interacting with a system.

Table 1: Definitions and Common Abbreviation

1.5 Document Conventions

- The entire document is formatted according to IEEE (Institute of Electrical and Electronics Engineers) standards.
- The font used for the text is Times New Roman, with a recommended font size of either 14(for heading) or 12.
- Bold letters are used to highlight comments, emphasizing additional information or notes.
- The text in the document is single-spaced, and the margins are set to 3 cm Left Margin 2.5 cm all Side Margin (Top + Bottom + Right), as specified in the provided template.
- Section and subsection titles should adhere to the template's formatting for consistency.
- The section acknowledges the potential need to further detail specific standards or conventions, which might involve separate subsections for Formatting Conventions, Naming Conventions, and other relevant categories.
- Overall, this section ensures that the document maintains a uniform and professional appearance while adhering to the established IEEE guidelines for formatting and presentation.

1.6 References

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2. Overall Description

2.1 Product Perspective

FurEver Home is a centralized, web-based platform developed to facilitate pet adoption, lost & found reporting, pet care services, and NGO interaction. From a product perspective, FurEver Home aims to bridge the gap between pet seekers, NGOs, pet service providers, and compassionate citizens looking to reunite lost pets or adopt new companions. It is accessible through all major web browsers on desktops, laptops, tablets, and smartphones.

The system is intended to streamline multiple workflows, including NGO pet management, user registrations, adoption requests, service bookings, news publication, and lost/found reports. It interacts with various user roles — such as visitors, registered users, NGOs, and admins — and ensures smooth operation with a clean, responsive UI built using modern technologies.

2.2 Product Functionality

1. User Panel

- Register with email OTP verification.
- Browse pets from approved NGOs with optional filters (category, age, breed, location).
- View detailed pet information.
- Apply for adoption if the pet is available.
- Track their adoption requests (pending, approved, rejected).
- Manage their profile information.
- Report lost/found pets

2. NGO Panel

- Register with email OTP verification.
- Log in only after admin approval.

3. Admin Panel

- Secure login to admin panel.
- View a dashboard showing counts of NGOs, users, pets, and recent adoption requests.
- Approve or reject NGO registrations with optional reasons.
- View NGO details with their associated pets.
- Manage users by toggling active/inactive status (no deletion).
- View all pets across NGOs with basic details and their associated NGO.
- Use status updates instead of deletions for clarity and transparency.

2.3 Users and Characteristics

1. Admin

- Role: Full control of platform, approve/reject NGOs, manage users & pets, oversee adoption workflow.
- Characteristics: Strong admin skills, system knowledge, ethical & transparent.

2. NGO Representatives

- Role: Register, manage profile, add/update pets, handle adoptions, mark pets adopted.
- Characteristics: Compassionate, organized, tech-literate, responsible.

3. Registered Users

- Role: Register, browse pets, apply & track adoptions, manage profile, report lost/found, contact NGOs.

2.4 Operating Environment

- FurEver Home operates as a responsive web application, optimized for:
- Desktop and mobile web browsers: Chrome, Firefox, Edge, Safari
- Internet connectivity.
- Devices with basic processing and RAM capabilities.
- Technologies used include: HTML5, CSS3, JavaScript, Bootstrap, PHP, MySQL.
- Users must have stable internet and access to modern browsers for full system .

2.5 Design and Implementation Constraints

- **Budgetary Constraints:**
- **Description:** Limited funding may restrict features, performance optimization, or infrastructure expansion.
- **Impact:** May require phasing features or limiting advanced functionality initially.
- **Technical Constraints:**
- **Description:** System built on PHP-MySQL with standard LAMP stack may face scaling or concurrency limitations.
- **Impact:** Limits high-load performance unless optimized or upgraded to cloud- hosted services.
- **Data Privacy and Security:**
- **Description:** Pet adoption and user data (IDs, contact) must comply with data protection practices.
- **Impact:** Requires secure login, encrypted storage, and strict access control.

2.6 User Documentation

- **User Manuals:** Step-by-step guides for registration, pet browsing, report lost/found pet, adoption requests.
- **NGO Documentation:** Instructions for listing pets, managing statuses, and responding to adoption or complaint requests.
- **Admin Guide:** Content moderation, user management, and platform configuration.
- **Tooltips & Help Icons:** Contextual guides embedded within forms and dashboards.
- **FAQs Section:** Available to all users covering common issues and feature usage.

2.7 Assumptions and Dependencies

- **Stable Internet Access:** Assumes users have continuous internet for smooth interaction and uploads.
- **Basic Technical Literacy:** Assumes users and NGOs can navigate basic web applications.
- **Device Compatibility:** Designed to support desktops, tablets, and smartphones of standard configurations.
- **Modern Browser Use:** Best viewed on updated browsers supporting ES6 and HTML5.
- **Data Security Measures:** Secure authentication, hashed passwords, and protected pet/adoption data are assumed.
- **Regular Maintenance:** Platform requires ongoing updates, database backups, and bug fixes.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

1. Consistency:

- The interface across Admin, Teacher, Student, and Parent panels will use consistent color schemes, typography, icons, and layout structure to ensure a unified user experience.

2. Clarity and Simplicity:

- UI will be clean, minimalistic, and straightforward, showing only relevant information per user type.
- Forms and actions will be labeled clearly to guide user interaction with minimal confusion.

3. Responsiveness:

- The system UI will be responsive across devices (desktop, tablet, mobile).
- Bootstrap will be used to ensure design consistency on various screen sizes.

4. User-Centered Design:

- **Interfaces are tailored to specific user roles:**
- Admins oversee and manage all operations, including NGO approvals, adoption records, and lost/found pet listings.
- NGO Representatives manage pet details, medical records, and respond to adoption or help requests.
- Users (Adopters) can browse adoptable pets, check medical information, locate nearby pet services via maps, and submit adoption or help requests.

5. Visual Hierarchy:

- Visual emphasis using headings, contrast, icons, and spacing to differentiate primary elements.

6. Navigation

- Menu-based sidebar with role-specific options.

7. Error Handling:

- Friendly error messages for failed submissions, incorrect input or access restrictions.

8. Feedback and Confirmation:

- Actions such as form submissions, attendance marking, or file uploads will show success/failure confirmations and loaders during processing.

9. User Personalization

- Options for theme (light/dark), notification settings, and profile management.

10. Continuous Improvement

- Interface updates will be made based on ongoing user feedback post-deployment.

3.1.2 Hardware Interfaces

- **As a web-based platform, the system supports:**

- (Computers/Laptops).
- Smartphones
- Device must Support:
- Modern browsers
- Basic input devices

3.1.3 Software Interfaces

- **User Interfaces (UI):**
- Built using HTML, CSS, JS, and Bootstrap for all user types.
- Dynamic rendering based on roles (Admin, Teacher, Student, Parent).

- **Database Interfaces:**

- MySQL is used for structured data.

- **Authentication & Authorization Interfaces:**

- Secure login for all users (Admin, NGOs, and Public Users).
- Role-based access control to ensure users access only permitted functionalities.

- **Communication Interfaces:**

- Internal notifications between NGOs and users for adoption status, approvals, and inquiries.
- Announcement board for posting NGO updates, and lost/found pet alerts.

3.1.2 Communications Interfaces

Functionality	Interface Description (Communication View)
User Login	Secure login interface for users. System communicates access permissions and displays messages for success or failure (e.g., invalid credentials).
NGO Login/Authentication	NGOs access the system only after admin approval. Login screen communicates status (approved, pending, or rejected).
Admin Login/Authentication	Admins log in securely with role-based authentication; system confirms access with appropriate privileges.
User Dashboard	Interface communicates pet listings with filters, adoption request statuses (pending, approved, rejected), report lost/found pet and profile information updates.
NGO Dashboard	NGOs interact through a profile and pet management panel. System communicates adoption requests, approvals/rejections, and adopted pet status updates.
Admin Dashboard	Admin interface communicates counts of NGOs, users, pets, and adoption requests with real-time updates.

Adoption Applications	Users submit adoption requests via forms. NGOs communicate decisions (approve/reject) through the system, and users notified of outcomes.
NGO Management (Admin)	Admin interface to approve/reject NGOs with optional reasons. Decisions are communicated back to NGOs in their login view.
User Management (Admin)	Admin manages users (active/inactive).
Pet Management (Admin)	Admin views all pets listed under NGOs with details. Communication is read-only (viewing associations and statuses).
Status Updates	Instead of deletions, the system communicates state changes (inactive, adopted, rejected) clearly on the interface for transparency.

Table 2 : communication interfaces

3.2 Functional Requirements

The FurEver Home platform provides a range of functionalities for different users including adopters (users), NGOs, and administrators. The system is divided into several functional areas to address the needs of each user type. Each subsection below outlines the detailed product operations and behaviors required to fulfill the objectives of the system.

1. User Registration and Authentication

- The system shall allow new users (adopters and NGOs) to register by providing valid credentials and required personal or organizational information.
- Users shall be able to log in securely using their registered email and password.
- The system shall authenticate users and direct them to their appropriate dashboards based on their role (User, NGO, or Admin).
- Password recovery functionality shall be provided via email verification.
- Session management shall ensure auto-logout after a defined period of inactivity.

2. Pet Browsing and Discovery

- Users shall be able to browse pets listed by approved NGOs.

- The system shall allow users to filter pets based on breed, age, gender, energy level, or availability status.
- Each pet listing shall display basic details such as name, image, age, and breed.
- Users shall be able to click on a pet profile to view detailed information including description, medical report, and adoption availability.

3. Adoption Request Management

- Users shall be able to submit adoption requests for pets marked as available.
- The system shall track each user's adoption requests with real-time status updates (Pending, Approved, Rejected, Adopted).
- NGOs shall be able to review adoption requests and approve or reject them.

4. NGO Profile and Pet Management

- NGOs shall be able to register and access their dashboard only after admin approval.
- NGOs shall be able to update their organizational profile including name, contact details, and description.
- NGOs shall be able to add new pet listings with details such as name, breed, age, description, medical report, and images.
- NGOs shall be able to update or mark pet listings as inactive or adopted instead of deletion.

5. Admin Functions

- Admins shall be able to log in securely to their panel.
- The admin dashboard shall display platform statistics including number of NGOs, users, pets, and recent adoption requests.
- Admins shall be able to approve or reject NGO registrations with optional reasons.
- The system shall allow admins to view NGO profiles along with their listed pets.
- Admins shall be able to manage user accounts by toggling them as active or inactive.

3.3 Behaviour Requirements

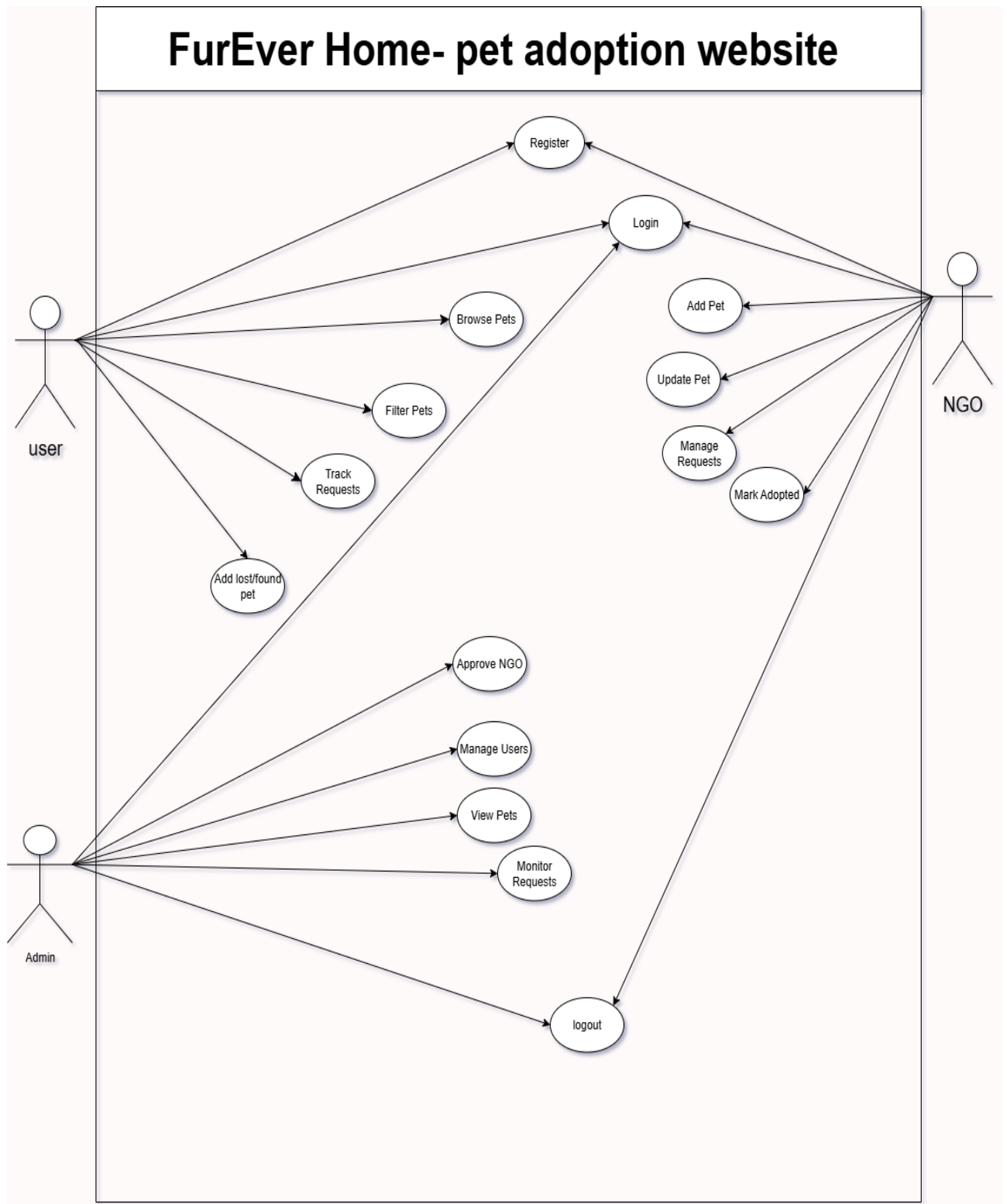


Figure : use case diagram

4. Other Non-functional Requirements

4.1 Performance Requirements

- **Response Time:**
 - All essential user interactions (e.g., adopting a pet, submitting a lost/found post, searching NGOs) should complete within 5 seconds under normal load.
- **Concurrent User Support:**
 - The system must support up to 500 simultaneous users, especially during events like pet adoption drives, or awareness campaigns.
- **Scalability:**
 - The system should allow for yearly growth of 15–20% in pet listings, user registrations, and service requests without performance loss.
- **Data Retrieval Speed:**
 - Frequently accessed data (pet profiles, adoption status, NGO listings) should load
 - within 3 seconds during peak periods.
- **System Availability:**
 - Website uptime should be maintained at 99.5% monthly. Maintenance should be scheduled during non-peak hours and informed in advance to users.

4.2 Safety and Security Requirements

The FurEver Home platform handles sensitive user data, adoption records, and NGO details. To ensure the protection of all users (adopters, NGOs, and administrators), the following safety and security requirements have been identified based on project scope and expectations.

1. Data Integrity and Backup

- The system must implement regular database backups to prevent data loss .

2. Unauthorized Access Prevention

- Access to restricted areas must be strictly role-based.

3. Adoption Request Fail-Safe Mechanism

- In case of a system error during the adoption request process, the request must not be marked as submitted until all required details are securely recorded.
- Duplicate adoption submissions for the same pet must be prevented.
- Users must receive a clear confirmation of adoption request status (Pending, Approved, Rejected).

4. Security Expectations and Requirements

- The platform shall maintain strong security standards to protect user data, NGO details, adoption records, and platform integrity.
- Logs of all major activities (registrations, logins, status changes) shall be maintained for security auditing.

5. User Authentication

- All users must register with a valid email and password.
- Passwords shall be stored securely using encryption or hashing techniques.
- Multi-factor authentication (MFA) may be introduced for admin access in the future to enhance security.

6. Role-Based Access Control (RBAC)

- Each user type (Adopter, NGO, Admin) must only have access to permitted features and data.
- Unauthorized access attempts should be blocked and logged for monitoring.

7. Encrypted Communication

- All data transmitted between client and server must be encrypted using HTTPS (SSL/TLS protocols).
- Sensitive actions such as login, registration, adoption requests, and profile updates must always occur over secure connections.

8. Data Privacy Compliance

- User and NGO data collection and storage shall comply with relevant privacy standards.
- Users and NGOs must be able to request account deactivation or deletion of their data.
- Personal information must not be shared publicly without consent.

9. Session Management

- Automatic logout shall occur after a period of inactivity to prevent unauthorized access from unattended devices.
- Tokens or cookies used for session management must be secure, encrypted, and expire appropriately.

4.3 Software Quality Attributes

This section outlines the key software quality attributes essential for the successful implementation, operation, and future scaling of the FurEver Home platform. Each attribute has been selected based on its relevance to user satisfaction, system performance, long-term maintainability, and platform trust.

4.3.1 Reliability

- The FurEver Home platform must function correctly and consistently under normal and peak load conditions.
- **To ensure reliability:**
- Failover handling will be implemented for critical operations, such as adoption request.

4.3.2 Portability

- FurEver Home is designed to run on various platforms and devices without major modifications. To achieve portability:
- The frontend will use responsive web design principles (HTML5, CSS3, Bootstrap, and JavaScript), ensuring compatibility with all modern browsers on desktops, tablets, and smartphones.
- The backend will be developed using PHP and MySQL within a standard LAMP (Linux, Apache, MySQL, PHP) stack. While primarily designed for Linux-based hosting environments, it will also remain compatible with XAMPP/WAMP on Windows for local development and testing, ensuring flexibility in deployment.

4.3.3 Maintainability

- The software will be designed to simplify bug fixes, updates, and enhancements over time. To ensure maintainability:
- Modular code design will be adopted using a layered architecture (presentation, logic, and data layers).
- Clear in-code documentation and developer comments will be maintained. Version control (e.g., Git) will be used for efficient collaboration, rollback, and change tracking.
- Reusable components will be developed for both UI and backend services to reduce code duplication.

4.3.4 Usability

- The system must be easy to use for all user types — adopters, NGOs, and admins. To promote usability:
- Interfaces will be designed with minimal clicks required to perform core actions
- Tooltips, icons, and intuitive design elements will guide users without requiring extensive training.

4.3.5 Scalability

- FurEver Home must accommodate growing numbers of users, NGOs, and pet listings without performance degradation. To support scalability:
- The backend will be developed with scalable technologies, using optimized database queries and caching strategies.
- Load balancers and cloud hosting options (e.g., AWS or DigitalOcean) will be considered for horizontal scaling.
- The database structure will allow for future feature expansions (e.g., lost & found pets, donation modules, AI pet health checks) without significant schema changes.

4.3.6 Security

- Security is a fundamental quality requirement given the presence of sensitive user
- And NGO data. Security will be ensured by:
- Implementing HTTPS for all communications.
- Encrypting passwords and personal data using industry-standard algorithms.
- Routine vulnerability scans and secure coding practices

4.3.7 Flexibility and Design for Change

- FurEver Home will be designed to accommodate future feature requests and platform enhancements (e.g., integrating donations, expanding pet categories, or AI-based pet matching). This will be achieved by:
- Separating logic from UI and data layers to allow easy replacement or addition of components.
- Using configuration files and environment variables instead of hard-coded values for adaptable deployment.
- Designing APIs with version control to enable backward compatibility when new features are introduced.

Appendix A – Data Dictionary

Table 1.1: Admin Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	admin_id	-	INT	Unique identifier for admin	Primary Key
2	Username	50	VARCHAR	Admin login username	-
3	Password	255	VARCHAR	Admin login password	-
4	created_at	-	TIMESTAMP	Record creation time	-
5	updated_at	-	TIMESTAMP	Last updated time	-

Table 1.2: User Account Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	user_id	-	INT	Unique identifier for user	Primary Key
2	Name	100	VARCHAR	Full name of user	-
3	Email	100	VARCHAR	User email	Unique
4	Password	255	VARCHAR	User login password	-
5	Phone	15	VARCHAR	Contact number	-
6	City	50	VARCHAR	City of residence	-
7	Status	-	ENUM	active, inactive	-
8	created_at	-	TIMESTAMP	Record creation time	-
9	updated_at	-	TIMESTAMP	Last updated time	-
10	email_verified	1	TINYINT	Email verification flag	-

Table 1.3: NGO Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	ngo_id	-	INT	Unique NGO ID	Primary Key
2	Name	100	VARCHAR	NGO name	-
3	Email	100	VARCHAR	NGO official email	Unique
4	Password	255	VARCHAR	Encrypted password	-
5	Phone	15	VARCHAR	NGO phone number	Unique
6	City	50	VARCHAR	City of NGO	-
7	Status	-	ENUM	pending, approved, rejected, inactive	-
8	status_reason	150	VARCHAR	Reason for approval/rejection	-
9	created_at	-	TIMESTAMP	Registration date	-
10	updated_at	-	TIMESTAMP	Last updated date	-
11	email_verified	1	TINYINT	NGO email verification flag	-

Table 1.4: Pet Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	pet_id	-	INT	Unique ID for pet	Primary Key
2	ngo_id	-	INT	NGO responsible for pet	Foreign Key
3	Name	50	VARCHAR	Pet's name	-
4	Species	-	ENUM	dog, cat	-
5	Breed	50	VARCHAR	Breed of pet	-
6	Age	3	TINYINT	Age of pet (in years)	-
7	Sex	-	ENUM	male, female	-
8	Vaccinated	-	ENUM	yes, no	-
9	Description	-	TEXT	Pet details/characteristics	-
10	Image	255	VARCHAR	Path/URL to pet image	-
11	Status	-	ENUM	available, adopted, inactive	-
12	adopted_at	-	DATETIME	Date of adoption	-
13	created_at	-	TIMESTAMP	Pet listing creation date	-
14	updated_at	-	TIMESTAMP	Last updated date	-

Table 1.5: Adoption Request Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	request_id	-	INT	Unique request ID	Primary Key
2	pet_id	-	INT	Pet requested for adoption	Foreign Key
3	user_id	-	INT	User who applied	Foreign Key
4	status	-	ENUM	pending, approved, rejected	-
5	note	255	VARCHAR	Admin/NGO notes	-
6	created_at	-	TIMESTAMP	Request creation date	-

Table 1.6: Pending Registration Table

Sr. No.	Field	Size	Datatype	Description	Keys
1	Id	-	INT	Unique record ID	Primary Key
2	Role	-	ENUM	user, ngo	-
3	Name	100	VARCHAR	Name of user/NGO	-
4	Email	100	VARCHAR	Registration email	Unique
5	Phone	15	VARCHAR	Registration phone	Unique
6	City	50	VARCHAR	City of applicant	-
7	password_hash	255	VARCHAR	Encrypted password	-
8	otp_hash	255	VARCHAR	Encrypted OTP	-
9	expires_at	-	DATETIME	Expiry time for OTP	-
10	Attempts	3	TINYINT	Number of OTP attempts	-
11	created_at	-	TIMESTAMP	Registration request date	-

Table 1.7: lost/found Table

\	Field	Size	Datatype	Description	Keys
1	Id	-	INT	Unique ID	Primary Key
2	user_id	-	INT	User who reported the pet	Foreign Key
3	Type	-	ENUM	lost, found	-
4	Image	255	VARCHAR	Path/URL to uploaded pet image	-
5	created_at	-	TIMESTAMP	Record creation date & time	-

Appendix B– User Manual

Step 1 – Home Page (Common for All)

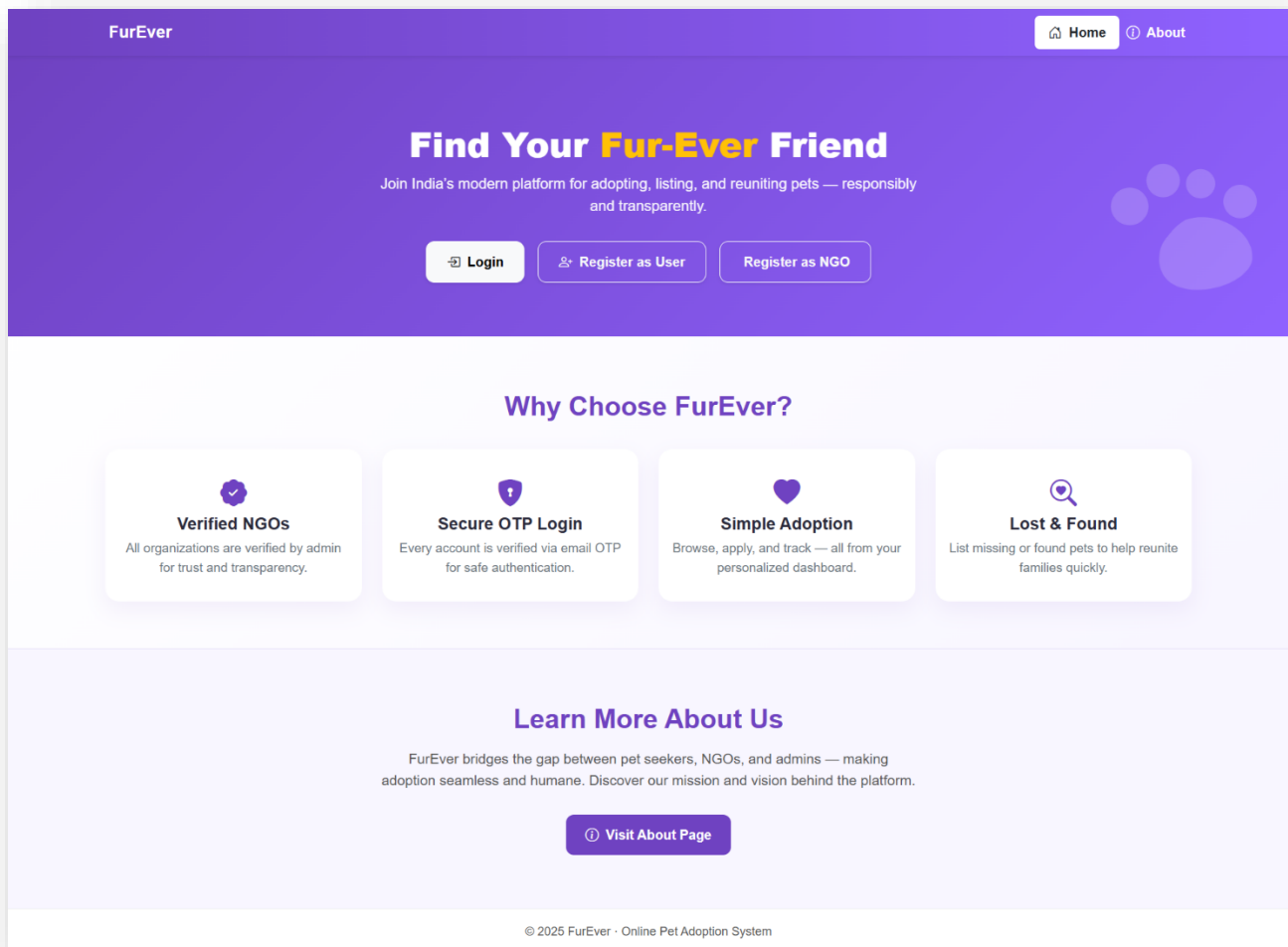


Figure : Home Page

Users land on the main Home Page where they can view a brief introduction to the website. From this page, they can choose to log in, register as a User or NGO, or visit the About Us page to learn more about the platform.

- **Step 2: Sign Up (For User and NGO only)**

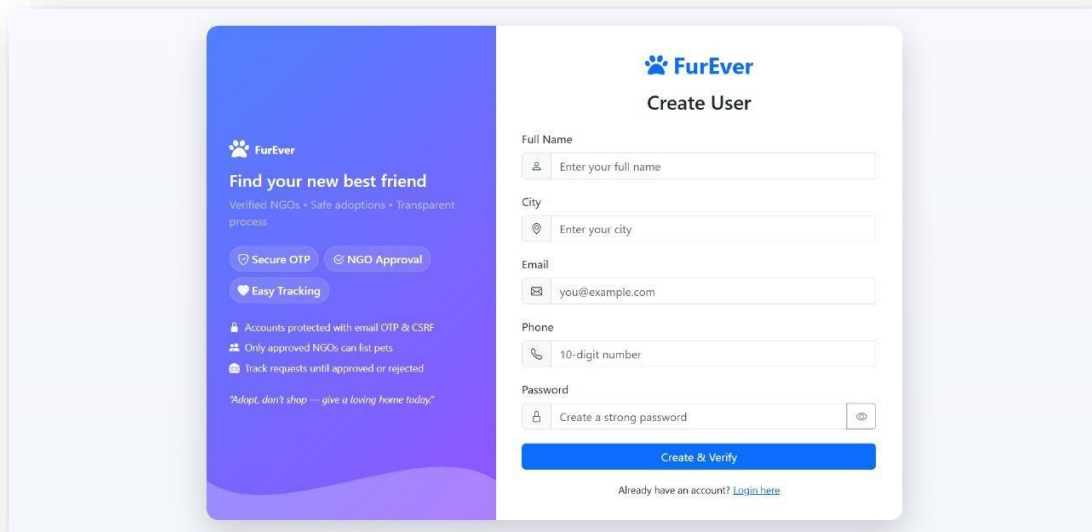
The image shows a web page for creating a user account on the FurEver platform. On the left, a purple sidebar contains the FurEver logo, the heading "Find your new best friend", and several bullet points: "Verified NGOs • Safe adoptions • Transparent process", "Secure OTP", "NGO Approval", "Easy Tracking", "Accounts protected with email OTP & CSRF", "Only approved NGOs can list pets", and "Track requests until approved or rejected". At the bottom of the sidebar is the quote "Adopt, don't shop — give a loving home today!". The main content area is white and titled "Create User". It contains form fields for "Full Name", "City", "Email" (with a placeholder "you@example.com"), "Phone" (with a placeholder "10-digit number"), and "Password" (with a placeholder "Create a strong password" and a toggle for visibility). A blue "Create & Verify" button is at the bottom of the form, and a link "Already have an account? Login here" is below it.

Figure : Sign Up Page

A new user can select Create User Account, while a new NGO can choose Register as NGO to begin the registration process.

Step 3: Authentication and Approval

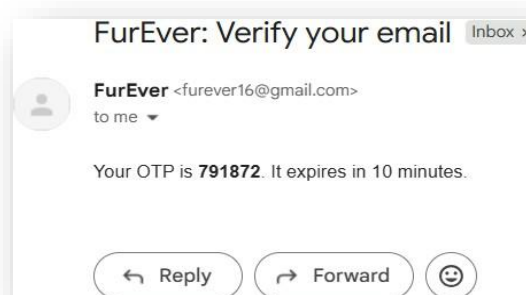


Figure : Email Verification

After OTP verification, a User account is activated immediately, whereas an NGO account requires Admin approval before activation. Admin accounts are predefined in the system and do not require signup or OTP verification.

Step 4: Login

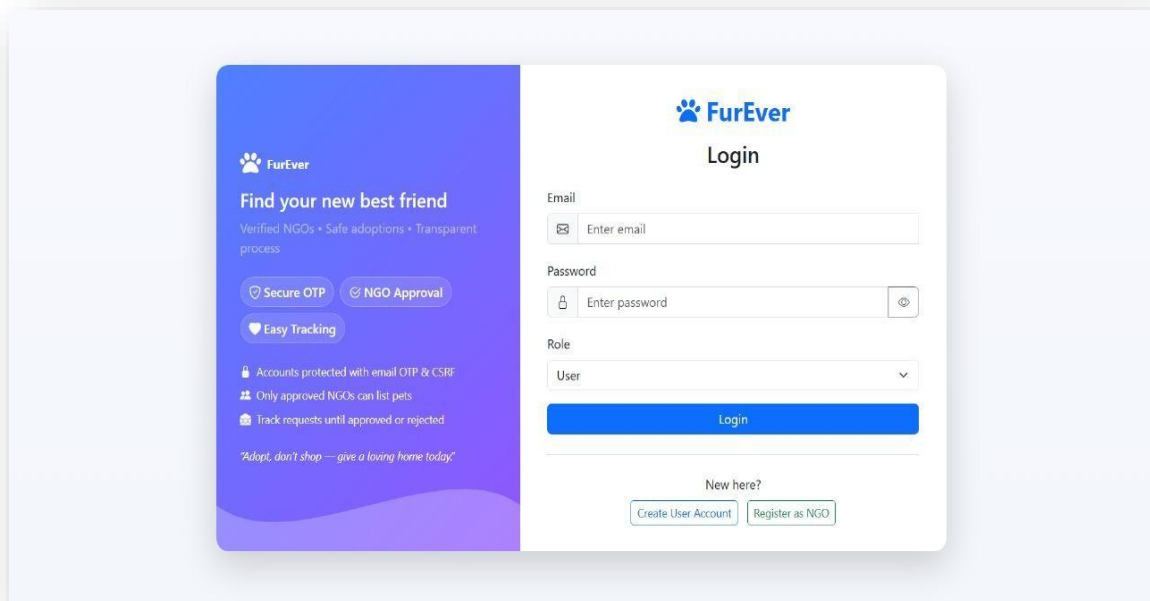


Figure : login page

Once the system is activated, both Users and NGOs can log in using their registered email and password. During login, the appropriate role—User, NGO, or Admin—must be selected. After successful authentication, the system identifies the user’s role and redirects them to the corresponding dashboard, ensuring access to the functionalities specific to their role. This process ensures secure access and personalized navigation for each type of user.

NGO PANEL

Step 1 – NGO Dashboard

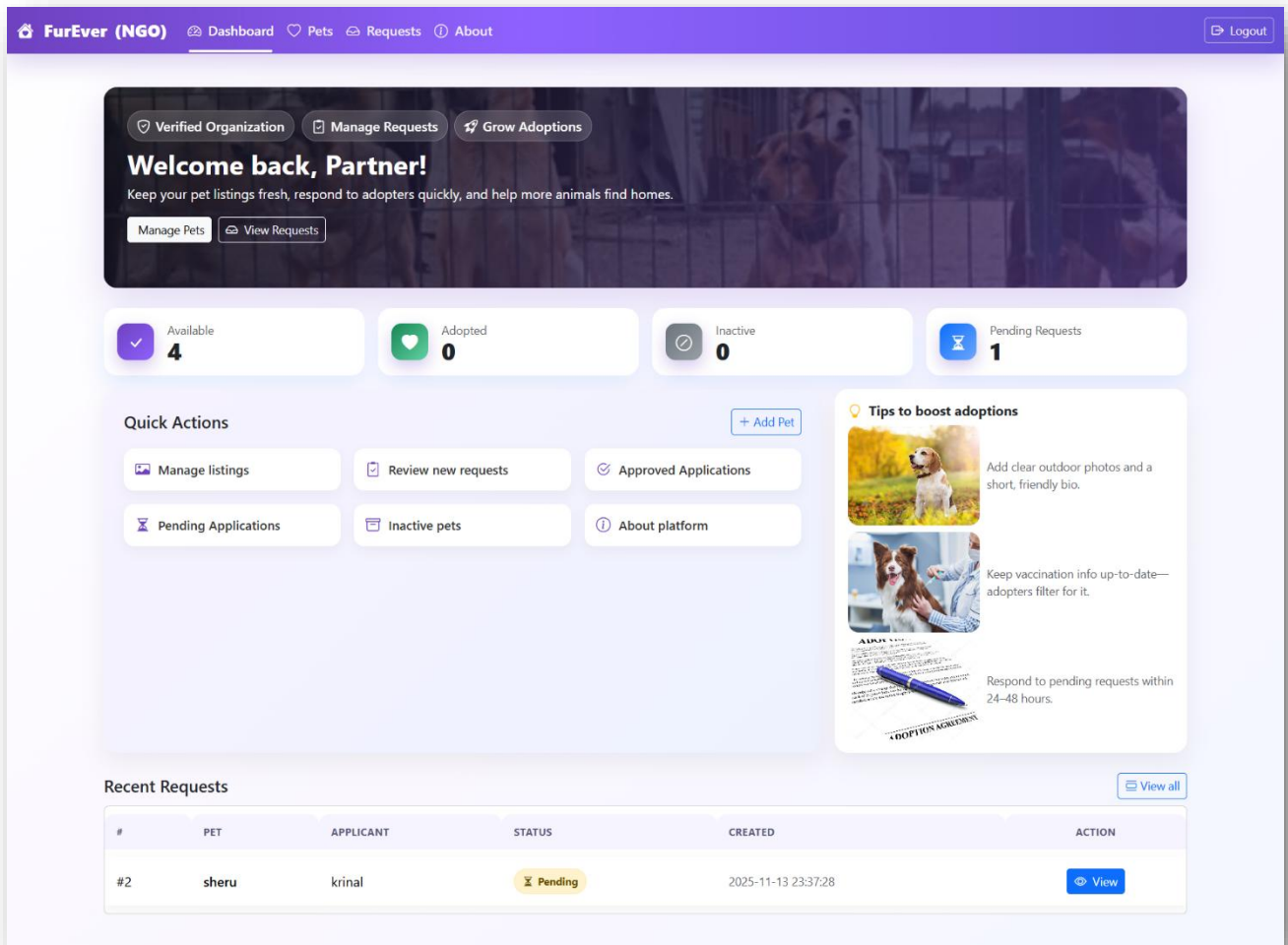


Figure : NGO Dashboard

When an NGO logs in, they are directed to their Home Page dashboard. Here, they can quickly view an overview of their ongoing activities and key updates. From this dashboard, the NGO can easily navigate to sections like Pets, Requests, or About Us to manage their operations and access relevant information.

Step 2 – Pets Page

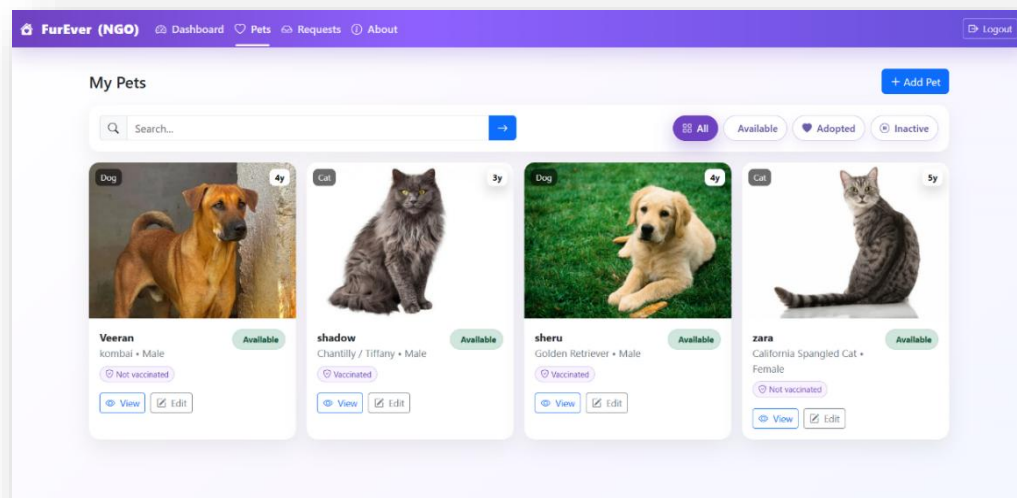


Figure : Pet Managing page

From the dashboard, the NGO can open the Pets Page to manage their animal listings. They have the ability to add new pets with complete details, edit information of existing pets, and oversee all their listings. This includes managing the status of pets, whether active or inactive, ensuring their database remains accurate and up to date.

Step 3 – Requests Page

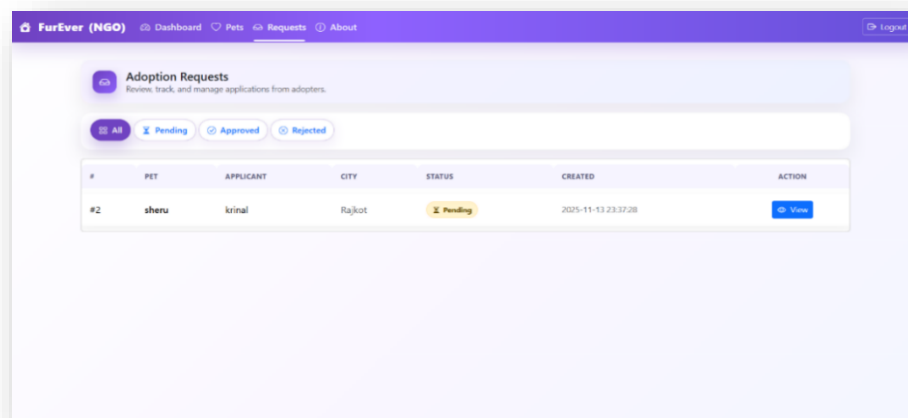


Figure : Requests Managing Page

On the Requests Page, the NGO can view all adoption requests submitted by users. They can examine each requester's details and track the status of their requests. Based on the situation, the NGO has the option to approve, reject, or update each adoption request, ensuring proper management of the adoption process.

Step 4 – About Us Page

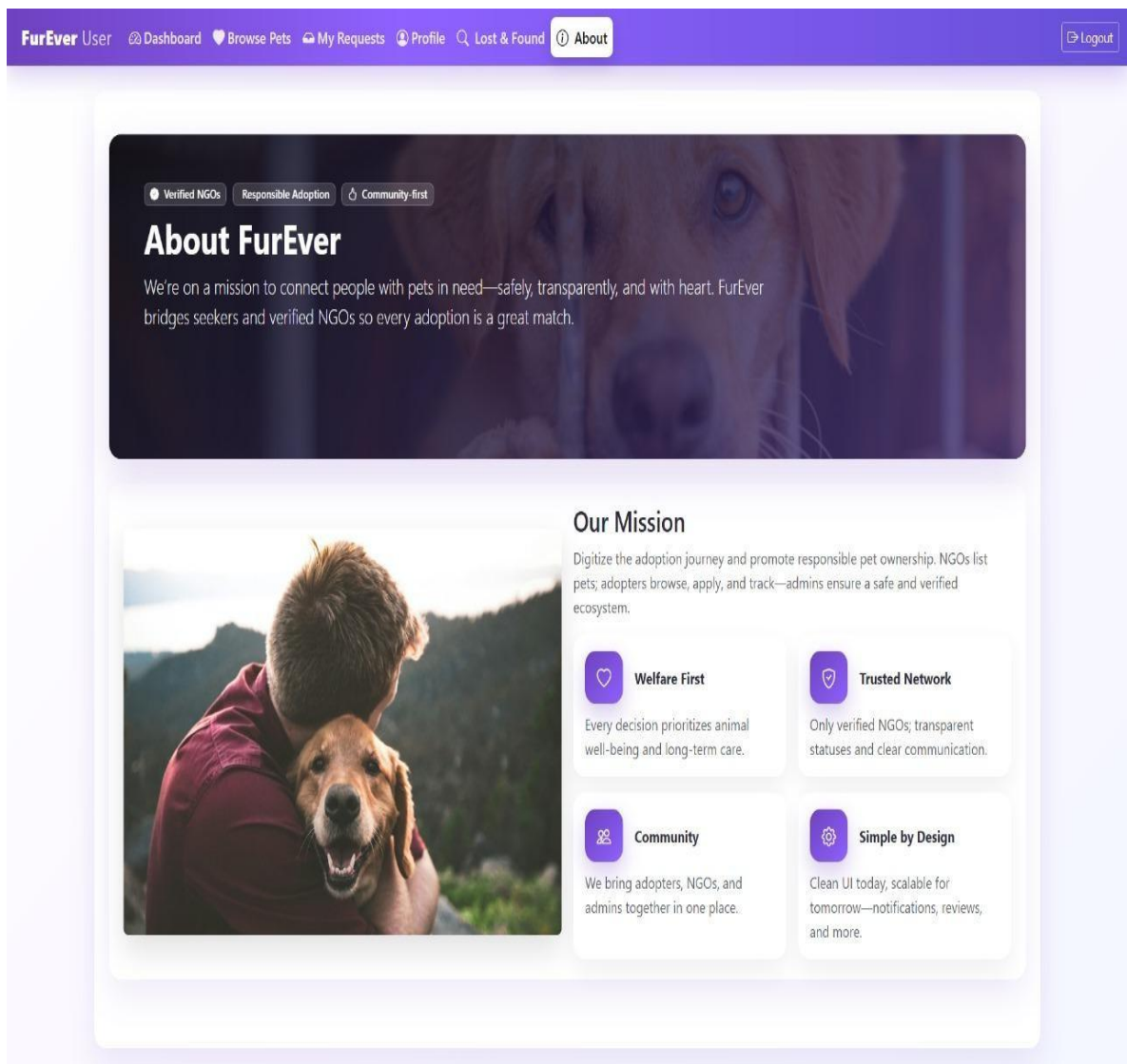


Figure : About Us page

When the NGO clicks on the About Us Page, they can read about the website's purpose and mission. This page also provides information on how the platform operates and the support available, helping the NGO understand the overall functioning and objectives of the system.

ADMIN PANEL

Step 1 – Home Page

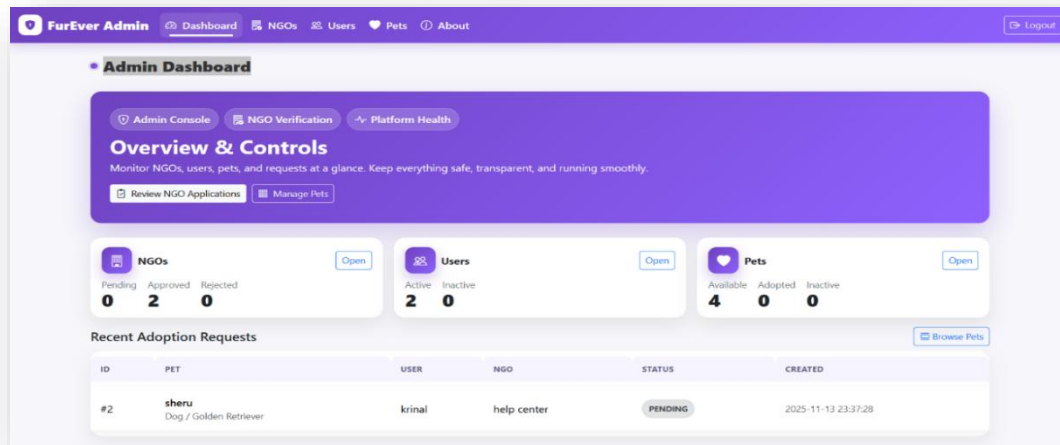


Figure : Admin Dashboard

When the Admin logs in, they are directed to the Home Page dashboard. From here, the Admin can view an introduction to the system and gain an overview of its features. Additionally, they can access the About Us section to review the system's purpose and objectives.

Step 2 – NGOs Page

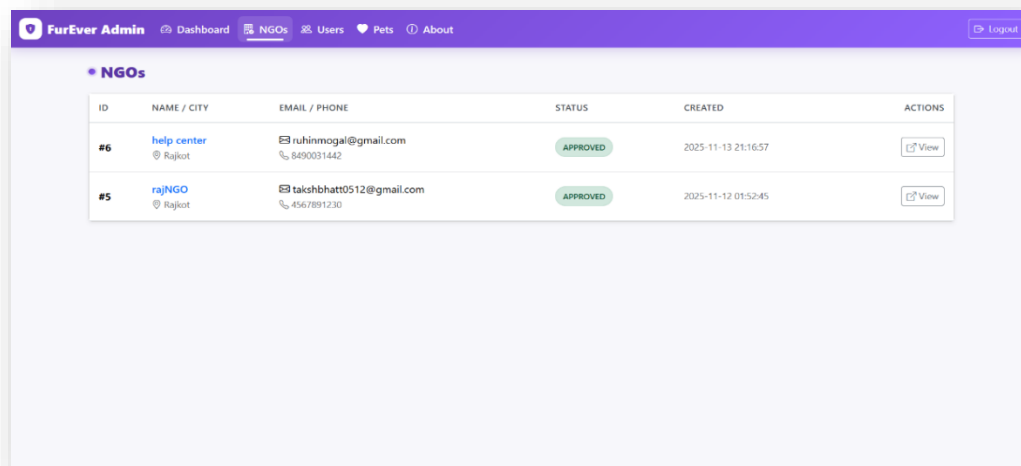


Figure : NGO Managing page

From the dashboard, the Admin can open the NGOs Page to manage registered organizations. They can view the full list of NGOs, check individual details, and verify their information. The Admin also has the authority to edit, approve, block, or remove any NGO as required, ensuring proper oversight of all organizations on the platform..

Step 3 – Users Page

ID	NAME / CITY	EMAIL / PHONE	VERIFIED	STATUS	JOINED	TOGGLE
#12	krinal Rajkot	krinalthacker@gmail.com 8849975116	Yes	Active	2025-11-13 21:10:35	Deactivate
#11	Rajdeep Rajkot	rs7310735@gmail.com 7894561230	Yes	Active	2025-11-11 23:39:40	Deactivate

Figure : User Managing page

When the Admin navigates to the Users Page, they can access a complete list of all registered user accounts. They can view individual user profiles and monitor their activity on the platform, ensuring proper management and oversight of user interactions.

Step 4 – Pets Page

ID	IMAGE	NAME	SPECIES / BREED	SEX / AGE	VACCINATED	STATUS	NGO	CREATED
#6		Veeran	Dog / kombai	Male / 4 yrs	No	Available	help_center Rajkot	2025-11-13 23:35:26
#5		shadow	Cat / Chantilly / Tiffany	Male / 3 yrs	Yes	Available	help_center Rajkot	2025-11-13 23:27:27
#4		zara	Cat / California Spangled Cat	Female / 5 yrs	No	Available	help_center Rajkot	2025-11-13 23:23:11
#3		sheru	Dog / Golden Retriever	Male / 4 yrs	Yes	Available	help_center Rajkot	2025-11-13 22:04:09

Figure: pet list managing page

On the Requests Page, the Admin can monitor all adoption-related activities. They can review requests sent by NGOs, including approvals, updates, or support queries, as well as adoption requests submitted by users to various NGOs. The Admin can track the status of each request and take necessary actions to ensure smooth operation of the platform.

USER PANEL

Step 1 – User Dashboard

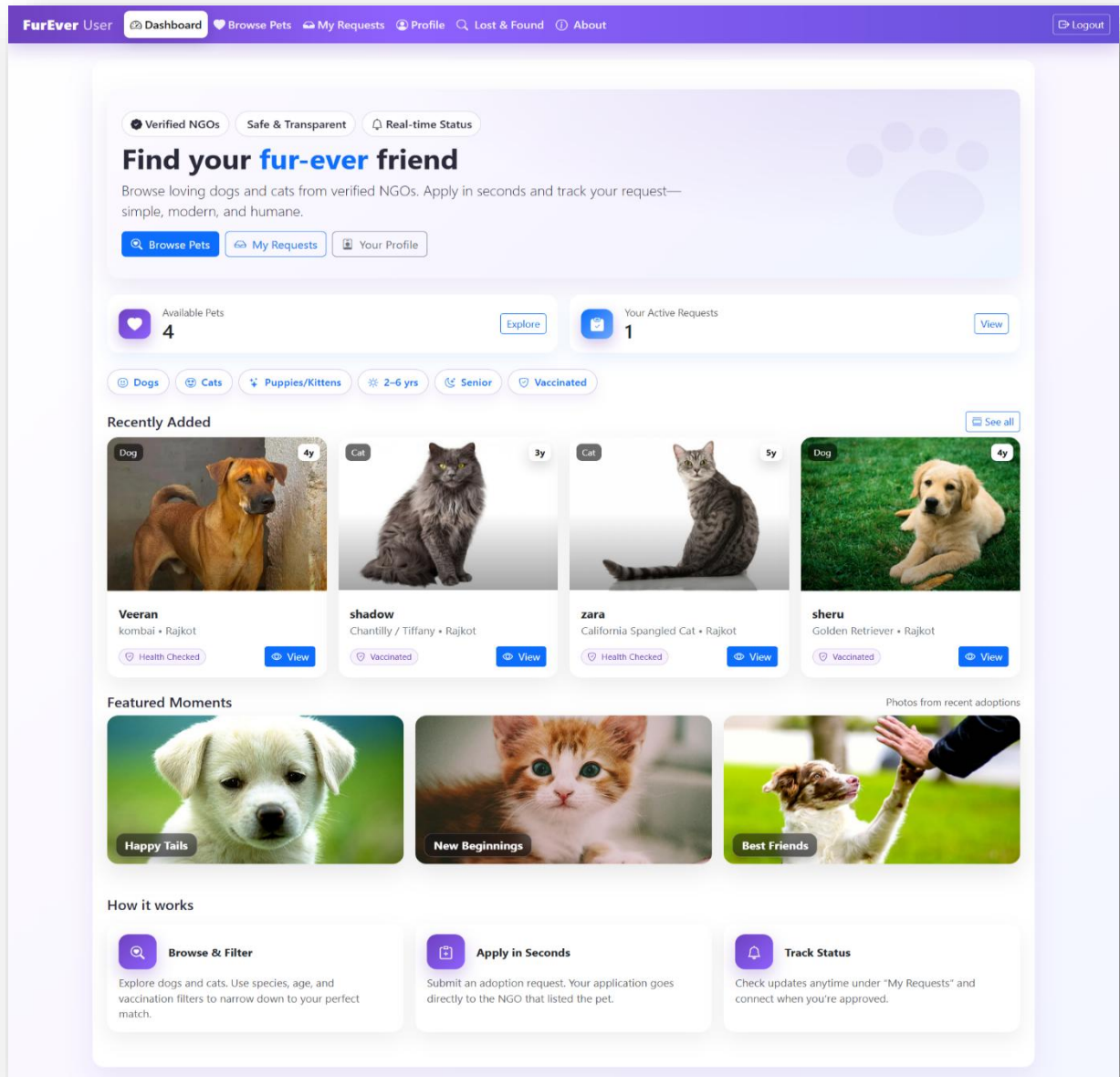


Figure : Admin Dashboard

After logging in, the User is directed to the Home Page. Here, they can see featured pets, quick category buttons, and important options at a glance. From the menu, the User can navigate to Browse Pets, My Requests, Profile, Lost & Found, or About Us, allowing them to understand the platform easily and start exploring its features.

Step 2 – Browse Pets Page

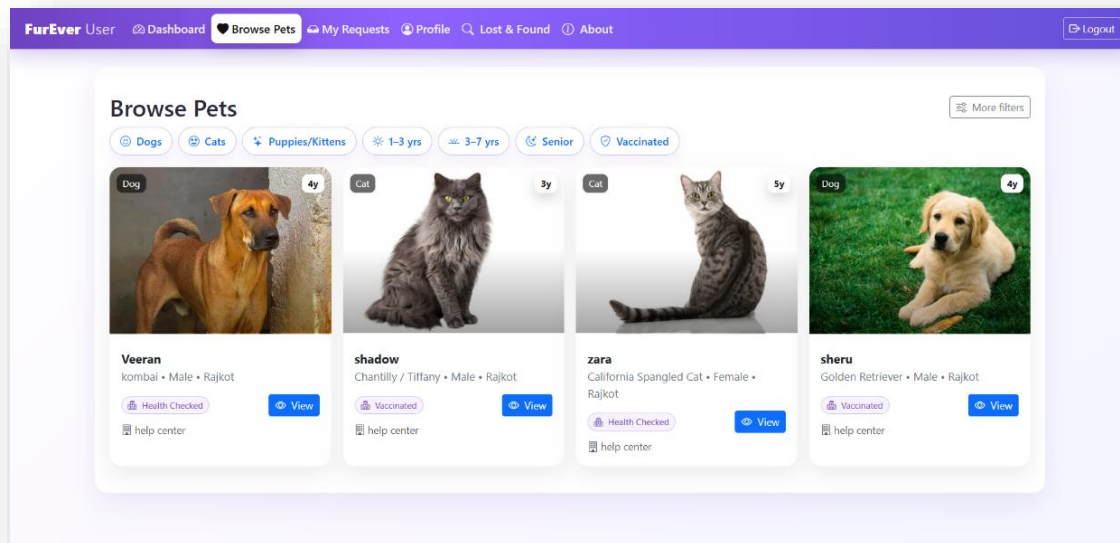


Figure : Browsing page

When the User opens the Browse Pets Page, they can view all available pets for adoption. The user can filter pets based on criteria like age, breed, type, energy level, and location. They can also access detailed profiles for each pet, including photos, health information, and details about the managing NGO.

Step 3 – My Requests Page

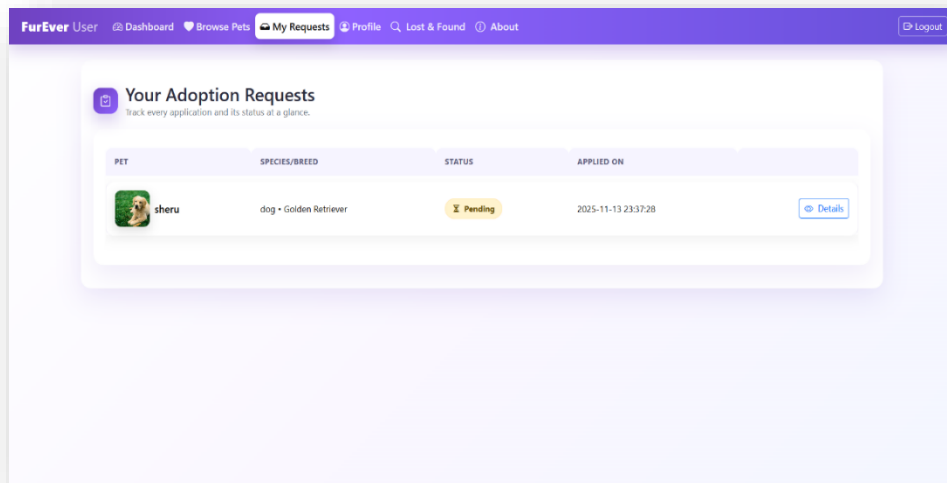


Figure : Request listing page

On the My Requests Page, the User can track all their adoption activities. They can check the status of each request—Pending, Approved, Rejected, or Under Review—and view detailed information along with any messages or updates from the NGOs. If permitted, the User can also withdraw or update a request.

Step 4 – Profile Page

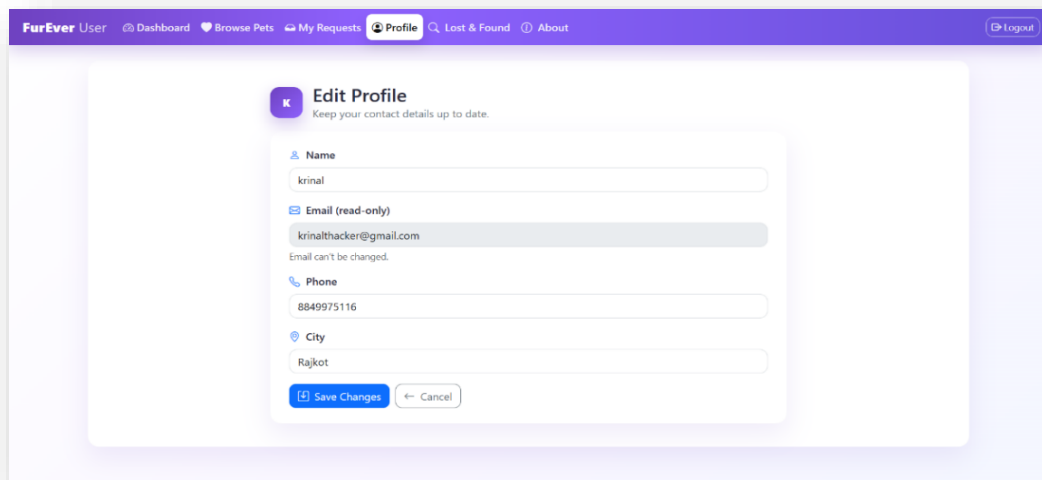


Figure : Profile page

When the User opens the Profile Page, they can view and manage their account details. They can update basic information such as name, email, phone number, and address, manage login credentials, and upload a profile picture. Additionally, the User can review their activity history and saved preferences.

Step 5 – Lost & Found Page

Figure : lost & found reporting page

On the Lost & Found Page, the User can report lost or found pets by selecting the appropriate option. They can upload a pet photo, provide the location, add a description, and include contact details. Users can also browse existing lost and found posts to assist others in locating pets.

Step 6 – About Us Page

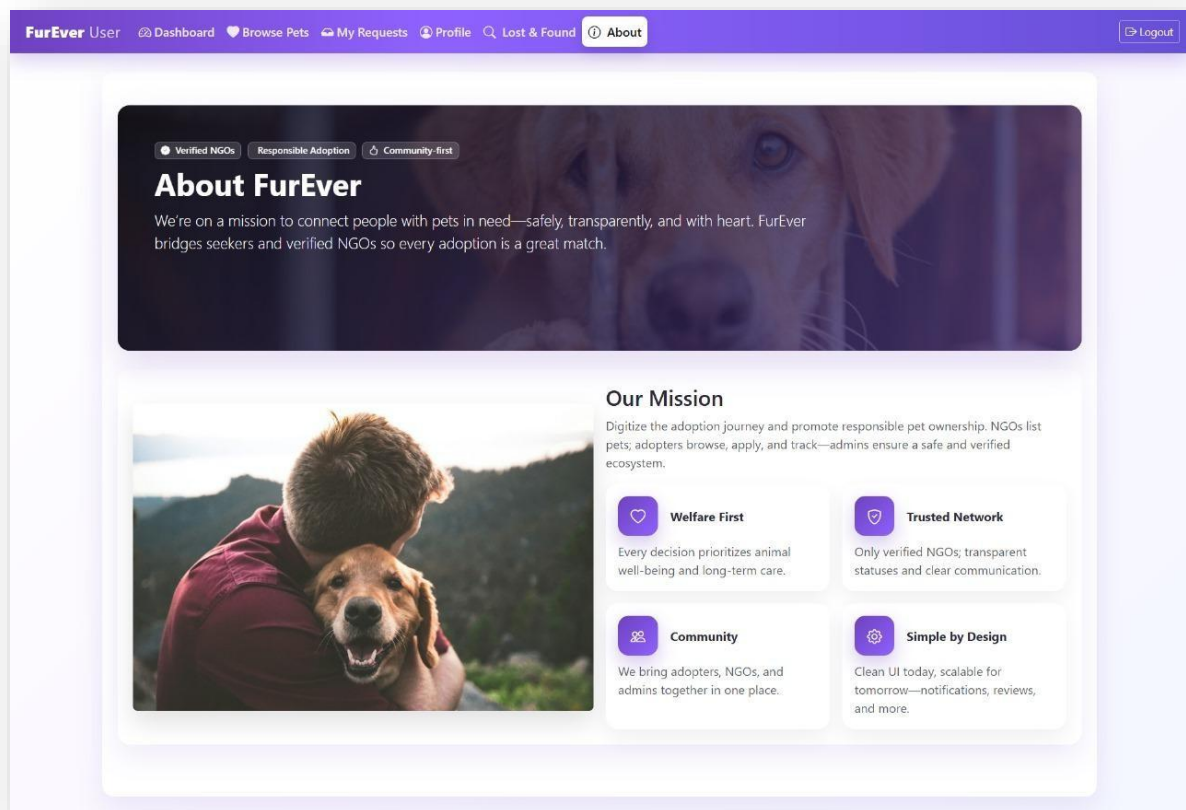
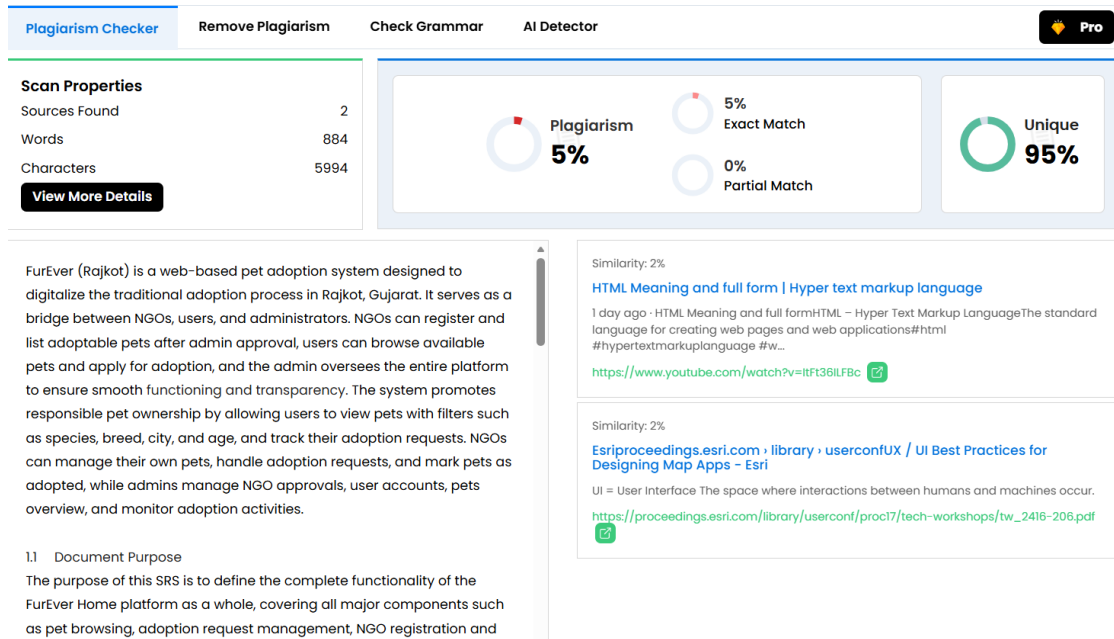


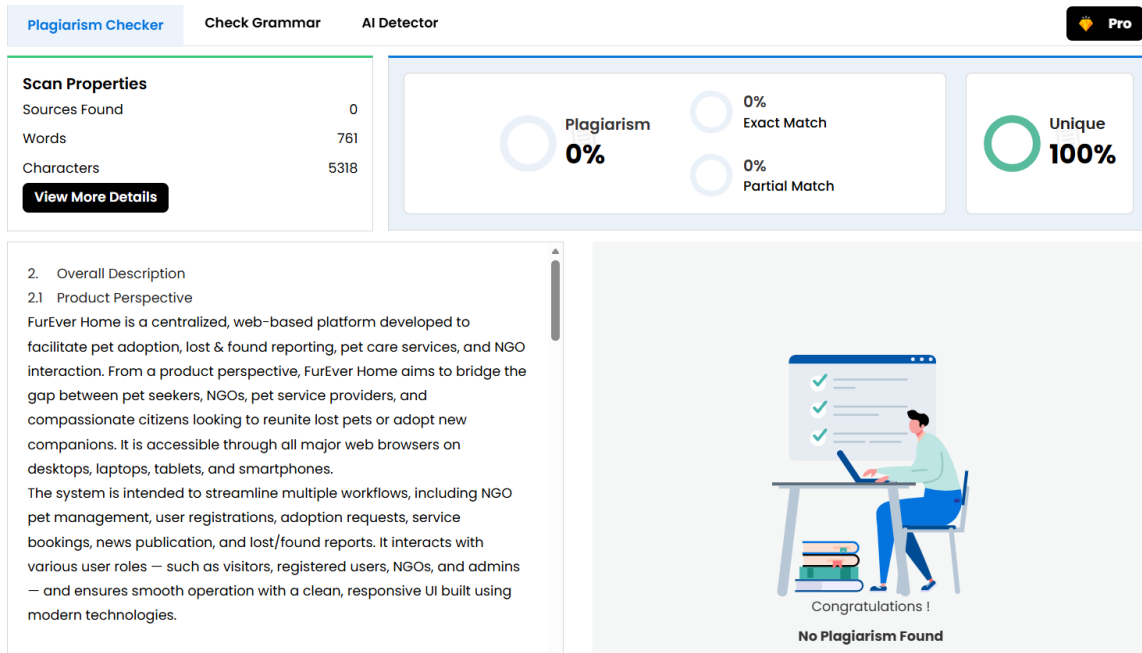
Figure : About us page

When the User clicks on the About Us Page, they can read about the platform's mission, purpose, and overall working process. This page helps the User understand how the adoption system functions and the important role played by NGOs in the adoption journey.

Appendix C – Plagiarism Report



1) Introduction 1.6 References and Acknowledgment



2) 2.1 Product Perspective3.2 Functional Requirements

Plagiarism Checker
Check Grammar
AI Detector

Pro

Scan Properties

Sources Found	0
Words	995
Characters	6756

View More Details

Plagiarism

0%

0% Exact Match

0% Partial Match

Unique

100%

4 Other Non-functional Requirements
4.1 Performance Requirements
1. Response Time:

- All essential user interactions (e.g., adopting a pet, submitting a lost/found post, searching NGOs) should complete within 5 seconds under normal load.

2. Concurrent User Support:

- The system must support up to 500 simultaneous users, especially during events like pet adoption drives, or awareness campaigns.

3. Scalability:

- The system should allow for yearly growth of 15–20% in pet listings, user registrations, and service requests without performance loss.

4. Data Retrieval Speed:

- Frequently accessed data (pet profiles, adoption status, NGO listings) should load within 3 seconds during peak periods.

Congratulations !
No Plagiarism Found

3) 4 Other Non-functional Requirements

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