

Flutter Assignment

Pet Care Hub

Sign-Up Page :

The **Sign-Up Page** in the **Pet Care Hub** app allows users to create an account using Firebase Authentication. This page consists of several key components that enhance usability and functionality.

UI Structure & Layout

- The page follows a **minimalist design** with a clean layout.
- A **header section** displays the app name, "Pet Care Hub Sign Up," with a consistent theme.
- A centered "**Create an Account**" text gives clear instructions to the user.

Input Fields

- **Full Name Field:** Allows users to enter their name (optional for Firebase authentication).
- **Email Field:** Captures the user's email address for authentication.
- **Password Field:**
 - Allows users to enter a secure password.
 - Includes a **visibility toggle icon** (eye icon) to show or hide the password.

Sign-Up Button & Firebase Authentication

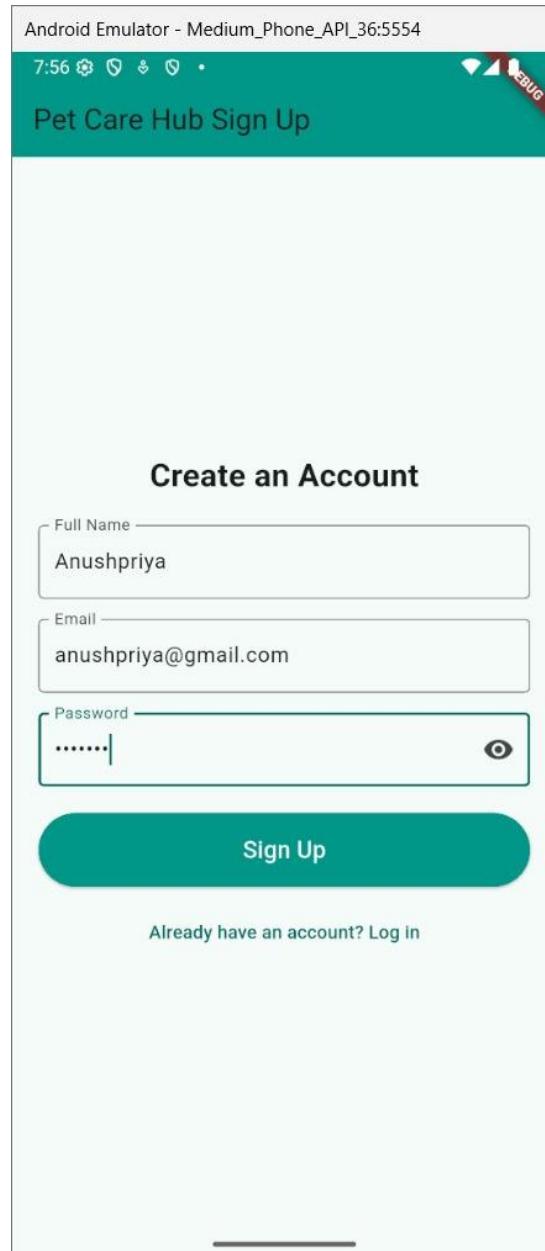
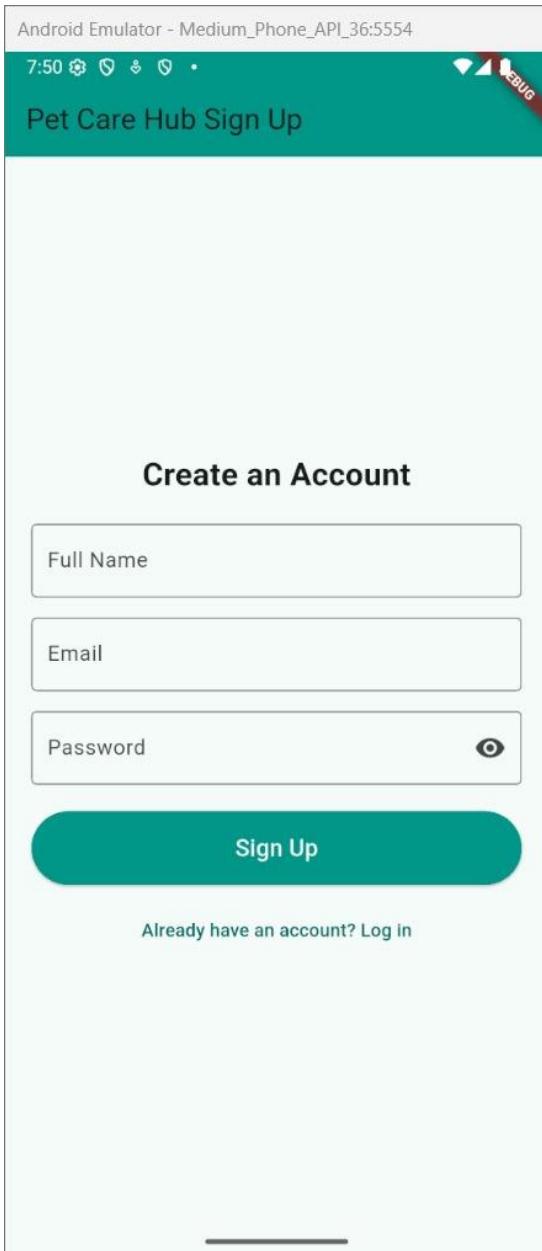
- The "**Sign Up**" button triggers the authentication process.
- When tapped:
 - The entered **email and password** are validated.
 - If valid, the user account is created using **Firebase Authentication**.
 - If an error occurs (e.g., weak password, email already in use), a **Snackbar message** is displayed.
- After a successful sign-up, the user is redirected to the **home screen**.

Navigation to Login Page

- Below the **Sign Up** button, a "**Log in**" link is provided.
- Clicking this link takes users to the **Login Page**, allowing them to sign in instead of creating a new account.

Responsive Design & User Experience

- The layout is **mobile-friendly** with proper spacing and alignment.
- Input fields are enclosed in **bordered text boxes** for clarity.
- The color scheme maintains a **professional and inviting look**.



Login Page

The Login Page in the Pet Care Hub app allows registered users to sign in using their email and password. It ensures a smooth and secure authentication process while maintaining a user-friendly interface.

UI Structure & Layout

- The page has a **clean and minimalistic design** for a seamless user experience.
- The **header section** displays the app name, "Pet Care Hub Login," maintaining consistency.
- A **welcome message** ("Welcome to Pet Care Hub") reassures users that they are in the right place.

Input Fields

- **Email Field:**
 - Allows users to enter their registered email.
 - Ensures proper input validation for valid email format.
- **Password Field:**
 - Enables users to enter their password securely.
 - Includes a **visibility toggle icon** (eye icon) to show or hide the password for convenience.

Login Button & Firebase Authentication

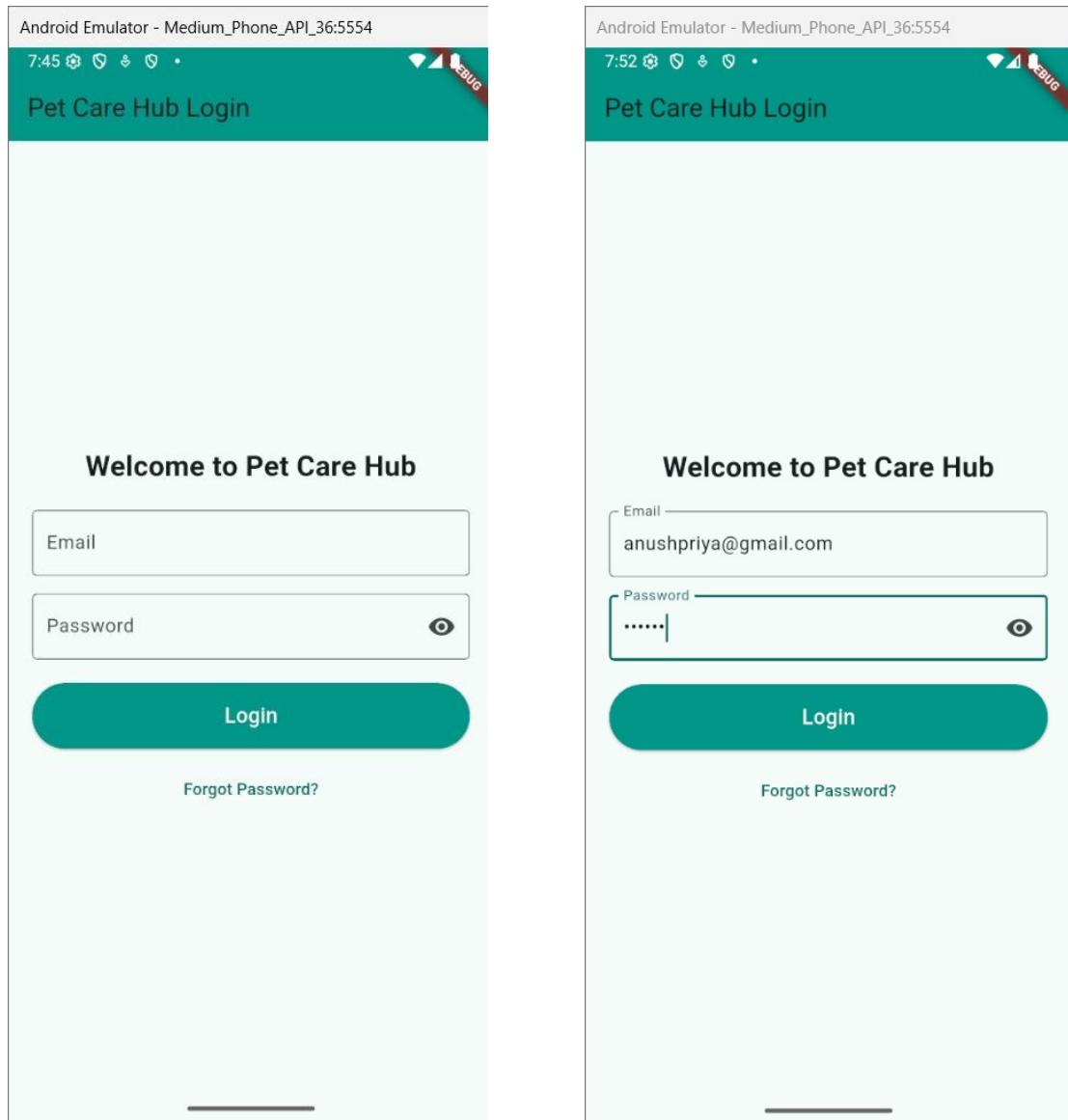
- The "**Login**" button initiates the authentication process.
- When clicked:
 - The entered **email and password** are validated.
 - If correct, the user is authenticated via **Firebase Authentication** and redirected to the **dashboard/home page**.
 - If incorrect, an **error message** (e.g., "Invalid credentials") is displayed via **Snackbar** or a dialog box.

Forgot Password Functionality

- Below the **Login** button, there is a "**Forgot Password?**" link.
- Clicking this allows users to reset their password by entering their registered email.
- Firebase sends a **password reset email** for account recovery.

Responsive Design & User Experience

- The **input fields are well-structured** with clear labels and borders.
- The **color scheme is consistent** with the app theme for a professional look.
- Buttons are **large and accessible** for better usability.



Home Page :

The Home Page (Dashboard) is the central navigation hub for the Pet Care Hub app. It provides users with quick access to various pet-related services in a clean and structured layout.

UI Structure & Layout

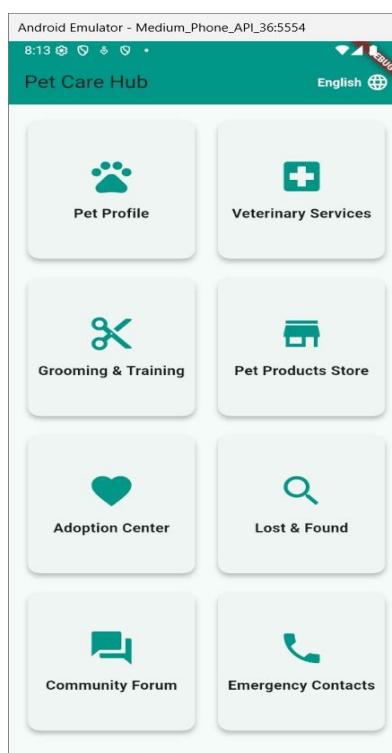
- The header section displays the app name ("Pet Care Hub") along with a language selection option (top-right corner).
- Below the header, eight interactive cards (buttons) lead to different functionalities.
- Each card has a minimalist icon and text label for easy identification.

Feature Navigation & Functionality

- Pet Profile: Users can add, edit, and manage pet details (name, breed, medical history, etc.).
- Veterinary Services: Provides access to vet clinics, online consultations, and health check-up bookings.
- Grooming & Training: Helps users find grooming salons and pet trainers for skill enhancement and hygiene.
- Pet Products Store: Directs users to an e-commerce section where they can buy pet food, toys, and accessories.
- Adoption Center: Connects users to pet adoption services and nearby shelters for adopting or rehoming pets.
- Lost & Found: Allows users to report missing pets or find lost animals in their area.
- Community Forum: A discussion platform where pet owners can share experiences, ask questions, and get advice.
- Emergency Contacts: Provides quick access to emergency helplines, vet hotlines, and rescue services.

User-Friendly Design & Accessibility

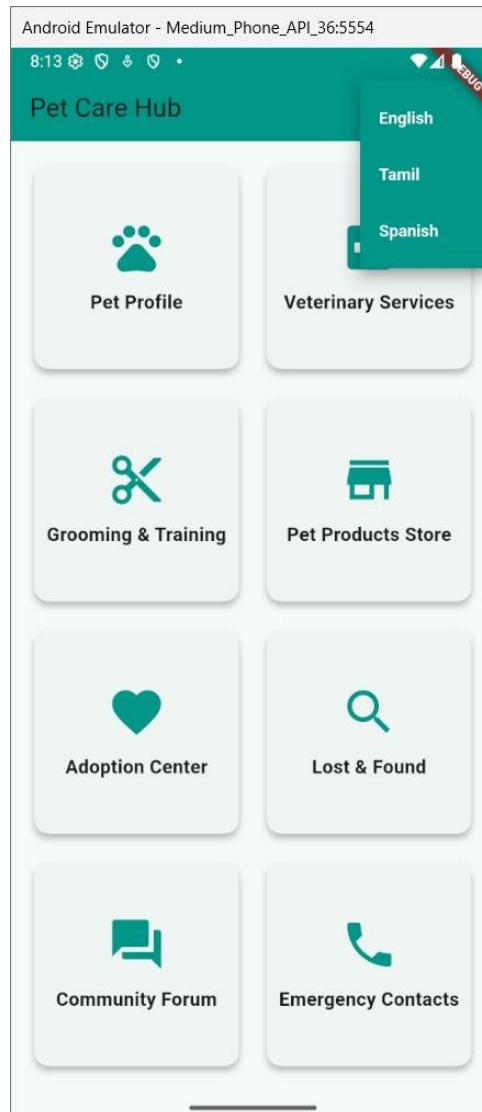
- Grid Layout: The 2x4 grid ensures a structured and easy-to-use interface.
- Minimalist Icons & Labels: Icons help in quick identification of each feature.
- Consistent Color Theme: Uses a calm and professional green-white color scheme.
- Large Touch Targets: Each button is big enough for easy navigation.
- Multilingual Support: The language selection option improves usability for a wider audience.



Localization :

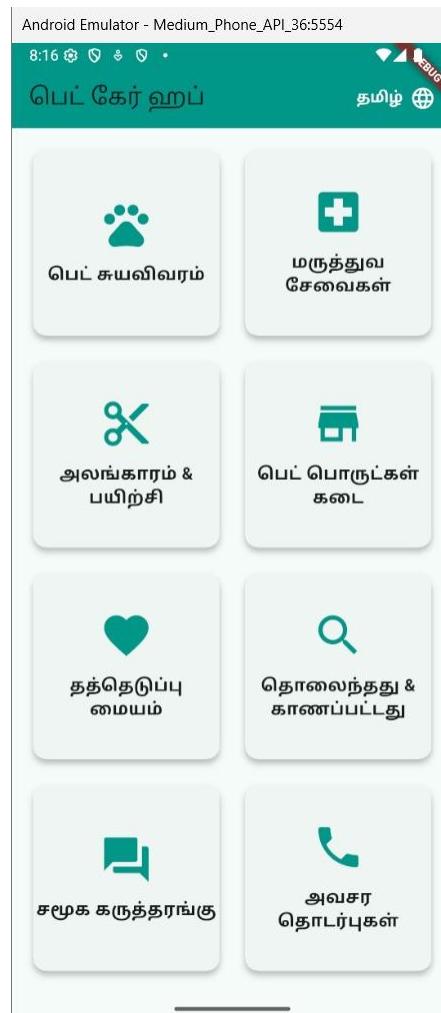
This version of the Pet Care Hub Home Page implements Localization, allowing users to switch between different languages, ensuring a better user experience for people from diverse linguistic backgrounds

- Clicking the **globe icon** (🌐) opens a **dropdown menu** listing multiple language options.
- Users can select from **English, Tamil, and Spanish** in the given example.
- Once a language is selected, the **app updates its content** accordingly.



After tamil is selected :

In this version of the **Pet Care Hub Home Page**, the app has successfully switched to **Tamil (தமிழ்)** as the selected language. This is part of the **Localization (L10n)** feature, which adapts the app's UI text to the user's preferred language, making it more user-friendly for Tamil-speaking users.



Pet Profile Page :

The **Pet Profile Page** in the Pet Care Hub app stores and displays important pet details for easy access. It includes:

- **Pet Name** – The registered name of the pet.
- **Breed** – The type or breed of the pet (e.g., Labrador, Persian Cat).

- **Allergies** – Any known allergies to food, medication, or the environment.
- **Special Conditions** – Medical conditions or specific care needs (e.g., diabetes, heart issues).
- **Contact Number** – The owner's or caretaker's phone number for emergencies.
- **Adoption Date** – The date when the pet was adopted.
- **Adoption Source** – The place where the pet was adopted (e.g., pet store, shelter).

Android Emulator - Medium_Phone_API_36:5554
8:31 ☀️ ⓘ ⓘ ⓘ ⓘ ⚡ DEBUG

Pet Profile

Pet Type
Cat

Breed
Persian

Allergies & Special Conditions
Sensitive stomach

Owner Contact Number
9874562135

Adoption Date
1-07-2022

Adoption Source
Rescue Center

Save Profile

Android Emulator - Medium_Phone_API_36:5554
8:29 ☀️ ⓘ ⓘ ⓘ ⓘ ⚡ DEBUG

Pet Profile

Pet Type
Dog

Breed
pomerian

Allergies & Special Conditions
Environmental allergies

Owner Contact Number
9874562135

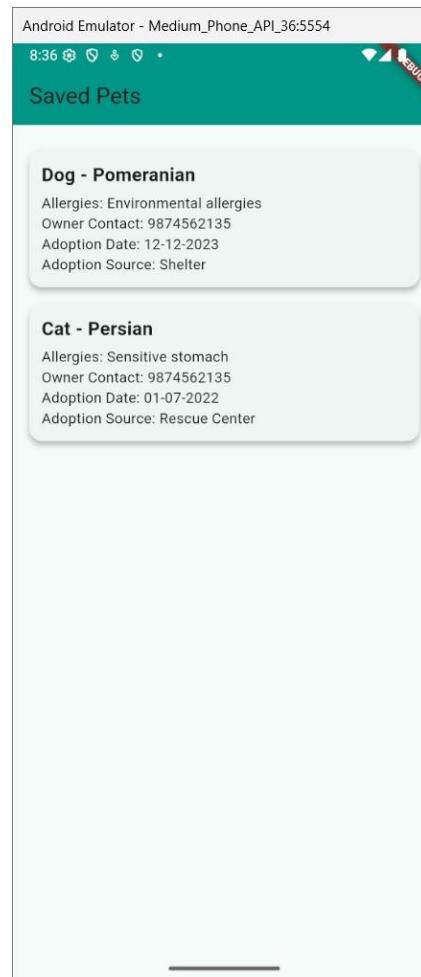
Adoption Date
12-12-2023

Adoption Source
Shelter

Save Profile

Data's are stored in Database :

Once the user enters the pet's details on the Pet Profile Page, the information is securely stored in a database. This ensures that pet records are always available, even if the user switches devices or logs in from another location.



The screenshot shows the Google Cloud Firestore console. The left sidebar shows project shortcuts and the "Firestore Database" section is selected. The main area shows the "users" collection with one document. The document has fields:

- email: "anushpriya@gmail.com"
- name: "Anush Priya"

Veterinary Services:

When the user clicks on the Veterinary Service option on the Home Page, the app navigates to the Veterinary Service Page where users can book appointments for pet checkups, vaccinations, and treatments.

Features of the Veterinary Service Page

- **List of Veterinary Services** – Users can see different services like checkups, vaccinations, and emergency care.
- **Appointment Booking** – Users can select a date and time to book a vet appointment.
- **Location & Contact Details** – Displays clinic address, phone number, and working hours.
- **Payment Integration** – Users can make secure online payments for services.

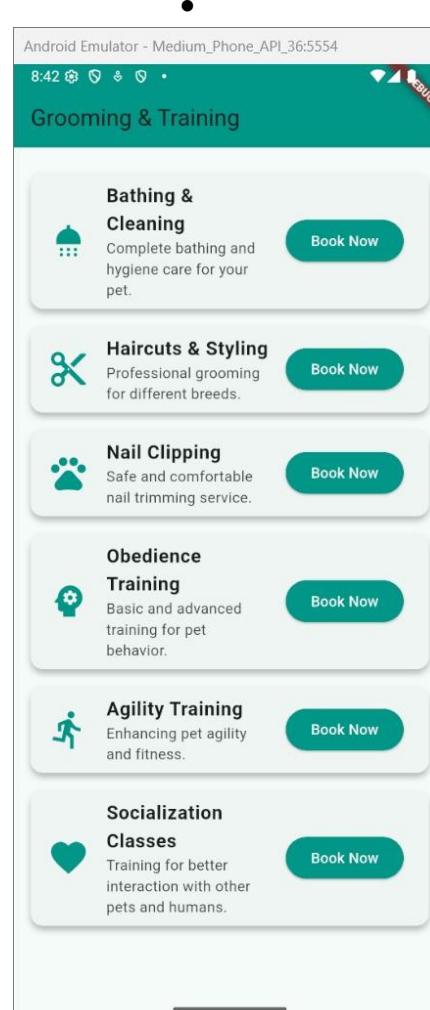


Grooming & Training :

After the Veterinary Service, if the user selects **Grooming & Training Services** from the **Home Page**, the app navigates to a new page where pet owners can book professional grooming and training sessions for their pets.

Features of the Grooming & Training Page

- **List of Grooming Services** – Bathing, hair trimming, nail clipping, ear cleaning, etc.
- **List of Training Services** – Obedience training, socialization, behavior correction, agility training.
- **Trainer & Groomer Profiles** – Users can view expert profiles, experience, and ratings.
- **Booking & Scheduling** – Users can choose a date, time, and service provider.
- **Payment Integration** – Secure payment options for booking services.
- **Notifications & Reminders** – Alerts for upcoming sessions.



Pet Product Store :

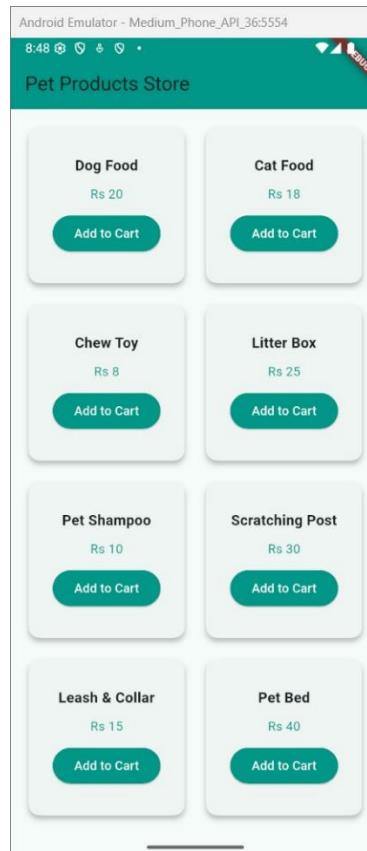
This screen displays pet products in a grid. It uses a GridView to arrange product cards. Each card shows a product's name, price, and an "Add to Cart" button. The data for the products is typically fetched from a data source. When a user taps "Add to Cart", it triggers an action to add that product to their cart.

Product Display:

- Presents a grid-based view of available pet products.
- Each product is shown with its name and price.

"Add to Cart" Action:

- Provides a button to add selected products to a virtual shopping cart.



Nearby Adoption Centers :

This screen displays a list of nearby pet adoption centers. It fetches data from an API, showing each center's name, location, and contact details. Users can tap a phone icon to initiate a call to the center. While loading, it shows a progress indicator, and displays errors if the API call fails.

API Data Fetching:

- Retrieves adoption center information dynamically from an external API.

List Display:

- Presents the adoption centers in a clear, scrollable list format.

Center Details:

- Shows essential information for each center, including name, location, and contact number.

Direct Call Functionality:

- Provides an interactive phone icon to initiate a direct call to the adoption center.

Loading Indicator:

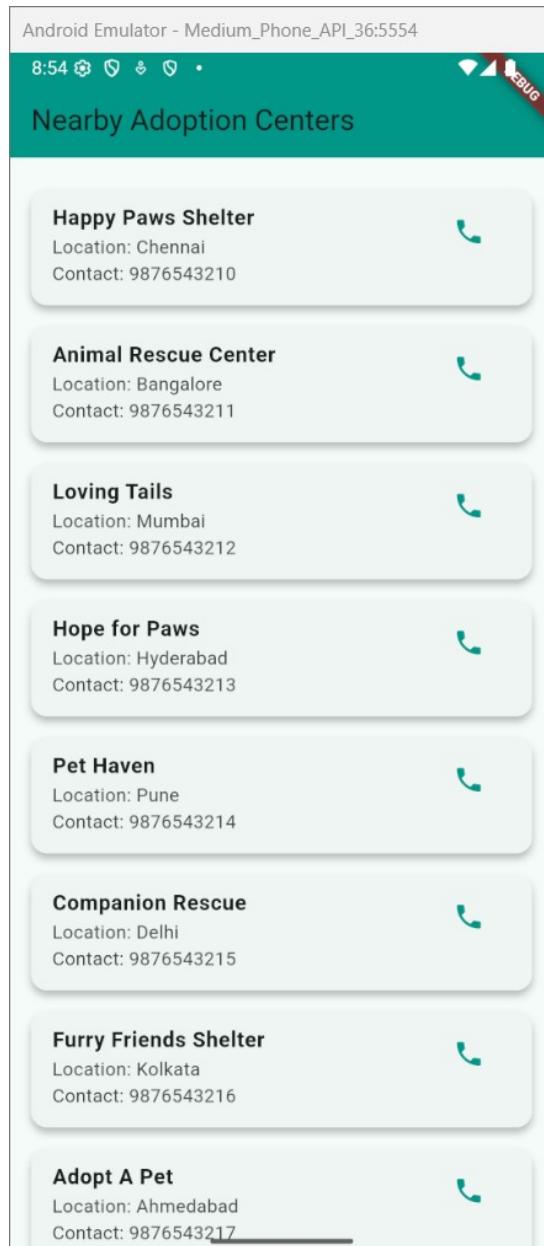
- Displays a visual cue (progress indicator) while the data is being fetched.

Error Handling:

- Handles potential errors during data retrieval and displays informative error messages.

User friendly:

- The list view is easy to read, and the phone icon provides a fast way to contact the adoption centers.



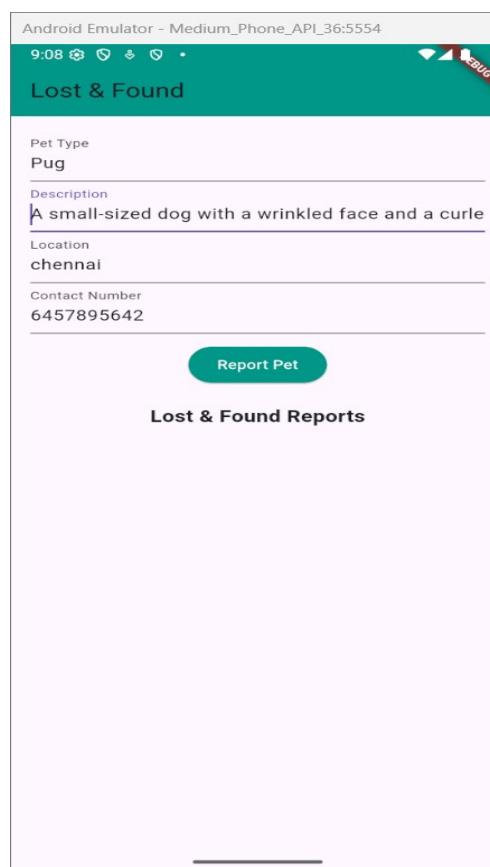
Lost and found:

The "Lost & Found" allows users to report lost or found pets. It includes a form for users to enter details like pet type, description, location, and contact information. Submitted reports are then displayed in a list below the form, allowing users to see and review existing reports.

Features:

- Report Submission Form:
 - Provides text fields for users to enter pet details.
 - Includes a "Report Pet" button to submit the information.

- Report Listing:
 - Displays submitted reports in a clear list format.
 - Shows key details like pet type, description, location, and contact.
- User Input Fields:
 - Allows users to specify the pet type.
 - Allows users to give a description of the pet.
 - Allows users to specify the location the pet was lost or found.
 - Allows users to specify their contact number.
- Data Storage:
 - Temporarily stores reports within the app's state.
 - Allows for future database integration for persistent storage.
- User Friendly:
 - The form and list are easy to understand and use.
 - The list view provides a quick way to review reported pets.

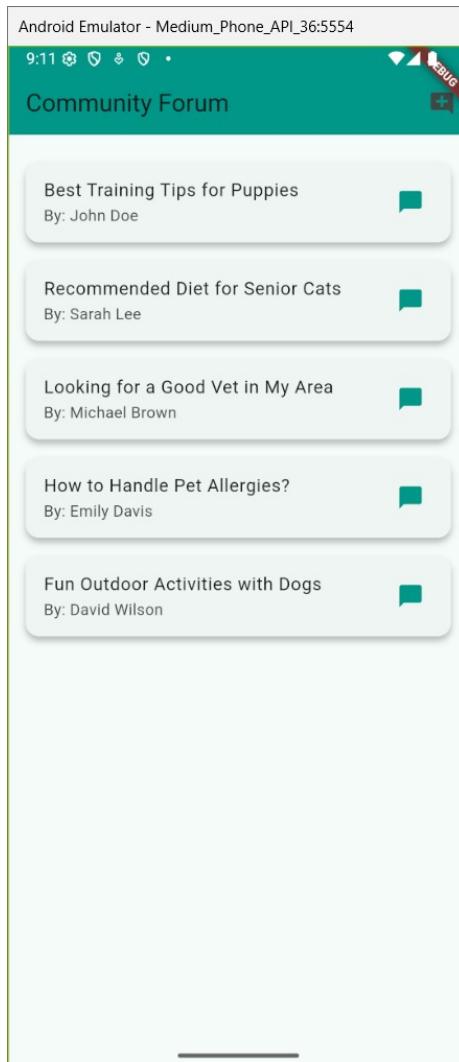


Community Forum :

The "Community Forum" provides a space for users to interact and share information related to pet care. It displays a list of discussion topics or posts, each with a title and author. Users can tap on a post to view details or comments, and a floating action button allows them to create new posts.

Features:

- **Post Listing:**
 - Displays a scrollable list of community forum posts.
 - Each post shows the topic title and the author's name.
- **Post Details Navigation:**
 - Allows users to tap on a post to view its full content or comments.
 - Enables deeper engagement with specific topics.
- **New Post Creation:**
 - Provides a floating action button for users to initiate the creation of new posts.
 - Facilitates active participation in the forum.
- **Interactive Comment Icon:**
 - Displays a comment icon, to indicate that the user can interact with the post by viewing or adding comments.
- **Data Driven:**
 - The post data is able to be pulled from various sources such as an api or database.
- **User friendly:**
 - The list view is easy to read, and the floating action button is easy to use.



Emergency Contacts:

Emergency Contact Listing:

- Displays a list of crucial emergency contacts.
- Presents contact names and phone numbers clearly.

Direct Call Functionality:

- Enables users to initiate phone calls directly from the app.
- Uses the device's phone dialer to make the calls.

User-Friendly Interface:

- Presents contacts in an easily navigable list.
- Uses a prominent phone icon for quick access to calling.

Error Handling:

- Informs the user if a phone call cannot be launched.

□ Data Driven:

- The contact data can be pulled from various sources.

