

API Contract for Pet Adoption App

GET /pets

- Description: Return the list of all pet data.
- Input: None
- Output:
 - Success: 200 OK
 - Returns list of all pets in json format

GET /pets/<int:pet_id>

- Description: Returns the data of one pet based on the pet_id
- Input:
 - pet_id (integer): In the query, the pet_id will be specified
 - Example: /pets/1
- Output:
 - Success: 200 OK
 - Returns information about the pet specific to the given pet_id.
 - Error: 404 Not Found
 - When there is no pet with the given pet_id, the error: "Pet not found" is returned.

User:

1. POST /login

- **Description:** Authenticates a user with a username and password.
- **Input:**
 - username (string): Username attempting to log in.
 - password (string): Associated password.
- **Output:**
 - **Success:** 200 OK
 - Returns JSON object: {"username": "user", "message": "Login successful", "token": "JWT-token"}.
 - **Token:** A JSON Web Token (JWT) for session validation.
 - **Error:** 401 Unauthorized
 - Returns JSON message: {"error": "Invalid username or password"}.

2. POST /register

- **Description:** Registers a new user with a unique username, password, and optional profile data.
- **Input:**
 - username (string): New username.
 - password (string): Password for the user.
 - **Optional:**
 - email (string): User's email address.
 - phone (string): User's phone number.
 - preferences (list): User's pet preferences (e.g., species, age, size).
- **Output:**
 - **Success:** 201 Created
 - Returns JSON message: {"message": "User registered successfully", "user_id": "unique_id"}.
 - **User ID:** A unique identifier for the registered user.
 - **Error:** 400 Bad Request
 - Returns JSON message if username is taken: {"error": "Username already exists"}.
 - **Error:** 400 Bad Request
 - Returns JSON message if required fields are missing: {"error": "Missing required fields"}.

Management

1. GET /applications
 - a. Input: none
 - b. Output: all the applications including user's information and pet information(json)
2. GET /applications/<int:app_id>
 - a. Input: app_id(int)
 - b. Output: the information associated with application id (json)
3. POST /manage_login
 - a. Input:
 - Manager_email(string)
 - Manager_password(string)
 - b. Output:
 - Message: login successful(json)
 - Message: invalid credentials(json)