Class Diagram

MODELS:

User:
- is_seeker
- is_shelter

Shelter:
- user
- name
- contact_info
- location
- mission_statement
- profile_picture

Seeker:
- user
- first_name
- last_name
- contact_info
- location
- preferences
- profile_picture

Chat:
- application
- message
- sender
- timestamp

Notification:
- user
- message
- read
- timestamp
- content_type
- object_id
- content_object

Review:
- author
- content_type
- object_id

- content_object
- comment
- created_at

Pet:
- shelter
- name
- gender
- breed
- age
- size
- description
- is_adopted

Application:
- pet
- applicant
- app_status
- app_message
- created_at
- last_updated_at

Endpoints

Accounts:

Pet Seeker:

Register:
Description: Register a new Pet Seeker
Endpoints: /accounts/user/signup/
Methods: POST
Fields/payloads: username, password, email
Validation errors:
- A user with that username already exists
- This password is too short. It must contain at least 8 characters
- Enter a valid email address

Login:
Description: Login as a Pet Seeker
Endpoints: /accounts/user/login/
Methods: POST

Fields/payloads: username, password
Invalid inputs:
- username or password is invalid

Profile:
Description: view the Pet Seeker profile
Endpoints: /accounts/user/profile/
Methods: GET

Edit Profile:
Description: update the Pet Seeker profile
Endpoints: /accounts/user/profile/management/
Methods: PUT
Fields/payloads: first_name, last_name, contact_info, location, preferences, profile_picture

Pet Shelter:
Register:
Description: Register as a new Pet Shelter
Endpoints: /accounts/shelter/signup/
Methods: POST
Fields/payloads: username, password, email
Validation errors:
- A user with that username already exists
- This password is too short. It must contain at least 8 characters
- Enter a valid email address

Login:
Description: Login as a Pet Shelter
Endpoints: /accounts/shelter/login/
Methods: POST
Fields/payloads: username, password
Invalid inputs:
- username or password is invalid

Profile:
Description: view the profile of a Pet Shelter
Endpoints: /accounts/shelter/profile/
Methods: GET

Edit Profile:
Description: update the profile of a Pet Shelter
Endpoints: /accounts/shelter/profile/management/

Methods: PUT

Fields/payloads: name, contact_info, location, mission_statement, profile_picture

Delete Profile:

Description: Delete profile of Pet seeker or shelter

Shelter Endpoint: /accounts/shelter/profile/deletion/

Seeker Endpoint: /accounts/seeker/profile/deletion/

Methods: DELETE

Pet Shelter:

Shelter Detail:

Description: view the details of shelter given shelter id

Endpoints: /shelter/<int:shelter_id>/

Methods: GET

Shelter Listings:

Description: view the pet listings of a shelter

Endpoints: /shelter/<int:shelter_id>/listings/

Methods: GET

List all shelters:

Description: view a list of all shelters

Endpoints: /shelter/all/

Methods: GET

Create Pet:

Description: create a new pet for the given shelter

Endpoints: /shelter/<int:shelter_id>/pet/

Methods: POST

Fields/payloads: name, gender, breed, age, size, description

Validation error: All fields are mandatory and cannot be left blank. If so, the following error must be shown above the problematic field:

● This field is required

Delete Pet:

Description: delete the given pet for the given shelter

Endpoints: /shelter/<int:shelter_id>/pet/<int:pet_id>/deletion/

Methods: DELETE

Pet Details:
      Description: view the details of the given pet for the given shelter
      Endpoints: /shelter/<int:shelter_id>/pet/<int:pet_id>/detail/
      Methods: GET

Update Pet:
      Description: update the details of the given pet for the given shelter
      Endpoints: /shelter/<int:shelter_id>/pet/<int:pet_id>/management/
      Methods: PUT
      Fields/payloads: name, gender, breed, age, size, description, is_adopted
      Validation error: All fields are mandatory and cannot be left blank. If so, the following error must be shown above the problematic field:
      - This field is required

Adopt Pet:
      Description: create new application, (start the adoption process for given pet)
      Endpoints: /shelter/<int:shelter_id>/pet/<int:pet_id>/adoption/
      Methods: POST
      Fields/payloads: app_message (optional)

Adoption:

Adopt application detail:
      Description: view the details of the given application
      Endpoints: /application/<int:application_id>/detail/
      Methods: GET

List all shelter Applications:
      Description: view all the applications for the given shelter
      Endpoints: /application/all/<int:shelter_id>/
      Query Parameters: can add ?sort_by=last_update, creation or ?status=Pending, Accepted, Denied, to filter or sort
      Methods: GET

Shelter and applicant's all chats:
      Description: view the chats related to the given application
      Endpoints: /application/<int:application_id>/chats/
      Methods: GET

Shelter and applicant send chats:
      Description: create new chat for the given application
      Endpoints: /application/<int:application_id>/message/
      Methods: POST

Fields/payloads: message

Validation error: All fields are mandatory and cannot be left blank. If so, the following error must be shown above the problematic field:
- This field is required

Shelter Updating status on the application:

Description: shelter updates status of the application

Endpoints: /application/<int:application_id>/shelter/status/

Methods: PUT

Fields/payloads: app_status

Note: can only change status from Pending to Accepted or Denied

Validation errors:
- This field may not be blank

Seeker Updating status on the application:

Description: seeker updates status of the application

Endpoints: /application/<int:application_id>/seeker/status/

Methods: PUT

Fields/payloads: app_status

Note: can only change status from Pending to Accepted or Withdrawn

Validation errors:
- This field may not be blank

Shelter viewing applicant profile:

Description: shelter view profile of seeker in the given application

Endpoints: /application/<int:application_id>/profile/

Methods: GET

Note: Shelter can only view seeker if the seeker has application with them

Search:

Search Pet:

Description: search for a pet

Endpoints: /search/

Methods: GET

Query Params: search, ordering (name, age)

Review:

View all reviews for a shelter:

Description: view all the reviews for the given shelter
Endpoints: /reviews/shelter/<int:shelter_id>/
Methods: GET

Post review for a shelter:

Description: create a new review for the given shelter
Endpoints: /reviews/shelter/<int:shelter_id>/comment/
Methods: POST
Fields/payloads: comment

View all reviews for an adopt application:

Description: view all the reviews for the given adoption application
Endpoints: /reviews/application/<int:appliation_id>/
Methods: GET

Post review for an adopt application:

Description: post a review for the given adoption application
Endpoints: /reviews/application/<int:application_id>/comment/
Methods: POST
Fields/payloads: comment

Notification:

Create new Notification:

Description: create a new notification
Endpoints: /notification/creation/
Methods: POST
Fields/payloads: user_id, message, content_type, object_id
Validation errors: All fields are mandatory and cannot be left blank. If so, the following error must be shown above the problematic field:
● This field is required

Update Notification:

Description: update a notification
Endpoints: /notification/read/<int:notification_id>/
Methods: PUT
Fields/payloads: read
Validation errors: if id is incorrect, it will show Notification not found and return 404, user forbidden 403

View all Notifications (list notifications):

Description: view a list of all the notifications

Endpoints: /notification/list/
Methods: GET
Validation errors: User not authenticated so can't get their notifications 401

Get Notification:

Description: Get the specified notification
Endpoints: /notification/details/<int:notification_id>
Methods: GET
Validation errors: notification does not exist, user forbidden 403

Delete Notification:

Description: view the details of the given notification
Endpoints: /notification/deletion/<int:notification_id>/
Methods: DELETE
Validation errors: notification does not exist, user forbidden 403