

# Pet Adoption Management System

## Full-Stack MERN Task

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### Overview

Build a system where users can browse pets available for adoption, apply to adopt, and admins manage pets and adoption requests.

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### User Roles

- **Visitor:** Browse pets, view pet details.
  - **User:** Register/login, apply to adopt pets, view adoption status.
  - **Admin:** Manage pets (CRUD), view and approve/reject adoption applications, update pet status.
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### Features

#### Visitor

- View list of available pets.
- Search pets by name or breed.
- Filter pets by species, breed, and age.
- View pet details.
- Pagination on pet list.

#### User

- Register/Login.

- Apply to adopt available pets.
- View own adoption applications and statuses.

### **Admin**

- Add/Edit/Delete pets.
  - View all adoption applications.
  - Approve or reject applications.
  - Update pet status automatically or manually.
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## **Technical Requirements**

### **Backend**

- Node.js.
- JWT authentication with role-based authorization.
- REST APIs for CRUD and adoption workflow.
- Validation to prevent invalid applications.

### **Frontend**

- React + Axios.
  - Public pet listing with search, filters, and pagination.
  - Use any database (MongoDB, PostgreSQL, etc.).
  - User dashboard for applications.
  - Admin dashboard for management.
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## Bonus (Optional)

- Upload pet photos (or use URLs).
- Notifications for application status changes.
- Provide deployed project link (frontend & backend).

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## Deliverables

- GitHub repo with README.
- `.env.example` file.
- Postman or Swagger API docs (optional).
- Responsive frontend UI.