Resident Maintenance Request Portal

A full-stack web application for managing apartment/building maintenance requests with separate interfaces for residents and administrators.

🚀 Quick Start

Prerequisites

- Node.js (v16+)
- npm

Installation

```
# Clone/create project directory
mkdir resident-maintenance-portal && cd resident-maintenance-portal

# Backend setup
mkdir backend && cd backend
npm init -y
npm install express cors dotenv bcryptjs jsonwebtoken uuid
npm install -D nodemon

# Frontend setup
cd ../
npx create-react-app frontend
cd frontend
npm install react-hook-form axios react-router-dom
```

Environment Setup

Backend (.env)

```
PORT=5000
JWT_SECRET=your_secret_key
ADMIN_EMAIL=admin@maintenance.com
ADMIN_PASSWORD=admin123
```

Frontend (.env)

```
REACT_APP_API_URL=http://localhost:5000/api
```

Run Application

```
# Terminal 1 - Backend
cd backend && npm run dev

# Terminal 2 - Frontend
cd frontend && npm start
```

📱 Features

For Residents

- Submit maintenance requests (no login required)
- Form validation and success feedback
- Multiple service categories (plumbing, electrical, etc.)

For Admins

- Secure login dashboard
- View all open requests
- Close completed requests
- Real-time request management

🔧 Tech Stack

- Frontend: React, React Hook Form, Axios
- Backend: Node.js, Express, JWT
- Storage: In-memory (development)

🌐 Access Points

- Resident Portal: http://localhost:3000
- Admin Login: http://localhost:3000/admin
- API: http://localhost:5000/api

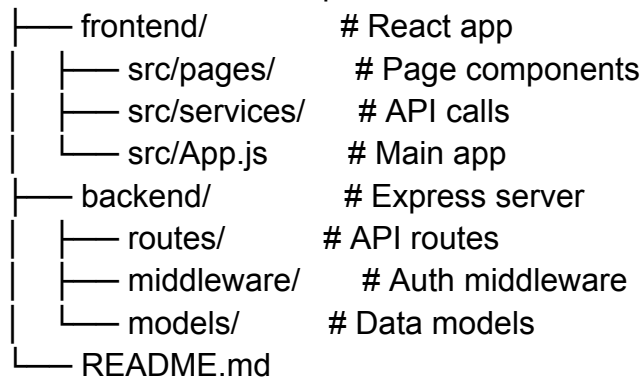# Default Admin Credentials

Email: admin@maintenance.com
Password: admin123

📝 API Endpoints

- POST /api/maintenance-requests - Submit request
- POST /api/login - Admin login
- GET /api/maintenance-requests - View requests (admin)
- PUT /api/maintenance-requests/:id/close - Close request (admin)

🏗️ Project Structure

```
resident-maintenance-portal/
├── frontend/          # React app
│   ├── src/pages/      # Page components
│   ├── src/services/    # API calls
│   └── src/App.js       # Main app
├── backend/           # Express server
│   ├── routes/         # API routes
│   ├── middleware/      # Auth middleware
│   └── models/         # Data models
└── README.md
```

🚦 Development Notes

- Data resets on server restart (in-memory storage)
- JWT tokens stored in localStorage
- Responsive design included
- Form validation on both frontend and backend

Screenshots

Maintenance Request Portal

Submit your maintenance request below. No login required.

Full Name *

Email Address *

Unit Number *

e.g., 101, A-205

Service Type *

Select a service type

Summary *

Brief description of the issue

Additional Details

Provide any additional information about the maintenance request...

Submit Request

Maintenance Request Portal

Submit your maintenance request below. No login required.

Full Name *

Aashish Yadav

Email Address *

aashish.260702@gmail.com

Unit Number *

101, A-205

Service Type *

Select a service type

Select a service type
Plumbing
Electrical
HVAC
Appliance Repair
Painting
Carpentry
Pest Control
General Maintenance
Other

Maintenance Request Portal

Submit your maintenance request below. No login required.

Full Name *

Aashish Yadav

Email Address *

aashish.260702@gmail.com

Unit Number *

101, A-205

Service Type *

Appliance Repair ▼

Summary *

Please Repair AC of my room

Additional Details

Do it ASAP..

Submit Request

Maintenance Request Portal

Submit your maintenance request below. No login required.

Maintenance request submitted successfully! We will contact you soon.

Full Name *

Email Address *

Unit Number *

e.g., 101, A-205

Service Type *

Select a service type

Summary *

Brief description of the issue

Additional Details

Provide any additional information about the maintenance request...

Admin Login

Login to manage maintenance requests

Email

Password

Login

Demo Credentials:
Email: admin@maintenance.com
Password: admin123

Maintenance Requests Dashboard

Open Requests: 2

To request to make a screen gate

Carpentry

Resident: Aashish Yadav
Unit: 602, C1
Email: aashish.260702@gmail.com
Submitted: Aug 11, 2025, 01:08 PM

Details:

Make it ASAP.

Mark as Closed

Please Repair AC of my room

Appliance Repair

Resident: Aashish Yadav
Unit: 101, A-205
Email: aashish.260702@gmail.com
Submitted: Aug 11, 2025, 01:21 PM

Details:

Do it ASAP.

Mark as Closed

Maintenance Requests Dashboard

Open Requests: 1

Please Repair AC of my room

Appliance Repair

Resident: Aashish Yadav
Unit: 101, A-205
Email: aashish.260702@gmail.com
Submitted: Aug 11, 2025, 01:21 PM

Details:

Do it ASAP.

Mark as Closed