

RentalHub API: Comprehensive Property Management Solution

Welcome to the **RentalHub API**, a robust and scalable RESTful API designed to make property management effortless. Whether you're a landlord managing a few units or a property manager handling hundreds, RentalHub brings all your operations together in one unified platform.

This guide walks you through the key features, endpoints, and example workflows to help you get started quickly.

Developer's Tip: All endpoints follow REST conventions and return JSON responses. Authentication uses OAuth 2.0 Bearer tokens, so make sure to log in and include your token in every request header: **Authorization: Bearer <your_token>**

Key Features and Endpoints

User Management

Manage users, tenants, and owners with intuitive endpoints for registration, authentication, and profile updates.

- **POST /api/users/register:** Create a new user account with secure registration.
- **POST /api/users/login:** Authenticate users and generate access tokens.
- **PUT /api/users/update:** Update user profiles, including contact details and preferences.
- **GET /api/users/profile:** Retrieve detailed user information for personalized services.

Example Chat You: I just onboarded a new tenant. How do I create their profile?

RentalHub API: Call **POST /api/users/register** with their name, email, and role set to "tenant".

Notifications

Stay connected with real-time alerts and customizable notifications.

- **POST /api/notifications/send:** Trigger notifications for events like payment reminders.
- **GET /api/notifications/list:** Fetch a list of notifications for a specific user or property.

Pro Tip: You can set notification preferences per user! This is perfect for tenants who only want SMS alerts.

Invoices

Automate invoicing for rent, fees, and services with easy generation and tracking.

- `POST /api/invoices/create`: Generate invoices based on lease terms or ad-hoc charges.
- `GET /api/invoices/list`: Retrieve invoices filtered by date, status, or client.

Example Chat You: I need to see all unpaid invoices for this month.

RentalHub API: Call `GET /api/invoices/list?status=pending&month=current`.

Property Management

Keep your property portfolio organized and searchable.

- `POST /api/properties/create`: Add a new property with details like location and amenities.
- `GET /api/properties/list`: Search and list properties by type, location, or availability.
- `PUT /api/properties/update`: Modify property details, status, or pricing.
- `DELETE /api/properties/delete`: Remove a property from the active listings.

Repair Requests

Track and resolve maintenance issues efficiently.

- `POST /api/repairs/create`: Submit a new repair request.
- `GET /api/repairs/list`: View repair requests by status or property.
- `PUT /api/repairs/update`: Update request status, assign technicians, or add notes.

Real-World Scenario: A tenant reports a broken heater at midnight. The system automatically logs the request and sends a high-priority notification to your on-call technician.

Lease Contracts

Simplify lease creation, signing, and management.

- `POST /api/leases/create`: Draft a new lease contract with terms, rent schedules, and clauses.
- `GET /api/leases/list`: Retrieve leases by tenant, property, or expiration date.

Payments

Securely handle all financial transactions.

- `POST /api/payments/create`: Process payments via integrated gateways.
- `GET /api/payments/list`: List payment history for reconciliation.
- `PUT /api/payments/refund`: Issue refunds or handle overpayment adjustments.

Schemas and Models

Our API uses well-defined JSON schemas to ensure consistency.

- **User:** id, email, role, preferences
- **Property:** address, type, rent price, availability
- **Lease:** start/end dates, rent amount, security deposit
- **Payment:** transaction id, amount, method, status
- **Invoice:** due date, line items, total
- **Notification:** message, type, recipient
- **Repair Request:** description, priority, assigned user

Benefits for Your Business

- **Scalability:** Manage hundreds of properties with zero performance drop.
- **Security:** OAuth 2.0, encryption, GDPR/PCI compliance.
- **Integration-Friendly:** SDKs + Webhooks for seamless real-time updates.
- **Customization:** Add custom fields and extend endpoints to fit your workflow.

Getting Started

Quick Start Guide: 1. Register an account with `POST /api/users/register`. 2. Log in and grab your token with `POST /api/users/login`. 3. Start creating properties, tenants, and leases! 4. Explore interactive Swagger docs at `/swagger-ui.html`.