

PropertyConnect - Real Estate Platform

Project Overview

PropertyConnect is a web-based real estate platform that connects agents with buyers/renters, featuring blockchain verification, AI-driven insights, and comprehensive property management tools.

Project Directory Structure

```
propertyconnect/
├── README.md
├── docker-compose.yml
├── .gitignore
├── .env.example
├── package.json
├──
└── frontend/
    ├── package.json
    ├── tsconfig.json
    ├── tailwind.config.js
    ├── vite.config.ts
    ├── .env.example
    └── public/
        ├── index.html
        ├── favicon.ico
        └── images/
            ├── logo.png
            └── property-placeholder.jpg
└── src/
    ├── main.tsx
    ├── App.tsx
    ├── index.css
    ├── types/
        ├── index.ts
        ├── property.ts
        ├── user.ts
        └── agent.ts
    └── components/
        ├── common/
            ├── Header.tsx
            ├── Footer.tsx
            ├── LoadingSpinner.tsx
            ├── ErrorBoundary.tsx
            └── Modal.tsx
        ├── property/
            ├── PropertyCard.tsx
            ├── PropertyList.tsx
            ├── PropertyDetails.tsx
            ├── PropertyFilters.tsx
            ├── PropertySearch.tsx
            └── VirtualTour.tsx
        └── agent/
```

```
| ... | ... | ... └── AgentCard.tsx  
| ... | ... | ... └── AgentProfile.tsx  
| ... | ... | ... └── AgentDashboard.tsx  
| ... | ... | ... └── AgentMetrics.tsx  
| ... | ... └── AgentCollaboration.tsx  
| ... | ... └── map/  
| ... | ... | ... └── MapView.tsx  
| ... | ... | ... └── MapMarker.tsx  
| ... | ... └── MapFilters.tsx  
| ... | ... └── auth/  
| ... | ... | ... └── LoginForm.tsx  
| ... | ... | ... └── RegisterForm.tsx  
| ... | ... └── ProtectedRoute.tsx  
| ... | ... └── chat/  
| ... | ... | ... └── ChatBot.tsx  
| ... | ... | ... └── ChatMessage.tsx  
| ... | ... | ... └── SupportChat.tsx  
| ... | ... └── blockchain/  
| ... | ... | ... └── VerificationBadge.tsx  
| ... | ... | ... └── BlockchainStatus.tsx  
| ... | ... └── pages/  
| ... | ... | ... └── HomePage.tsx  
| ... | ... | ... └── PropertyListingsPage.tsx  
| ... | ... | ... └── PropertyDetailsPage.tsx  
| ... | ... | ... └── AgentDashboardPage.tsx  
| ... | ... | ... └── BuyerDashboardPage.tsx  
| ... | ... | ... └── LoginPage.tsx  
| ... | ... | ... └── RegisterPage.tsx  
| ... | ... | ... └── NotFoundPage.tsx  
| ... | ... └── store/  
| ... | ... | ... └── index.ts  
| ... | ... └── slices/  
| ... | ... | ... └── authSlice.ts  
| ... | ... | ... └── propertySlice.ts  
| ... | ... | ... └── agentSlice.ts  
| ... | ... | ... └── chatSlice.ts  
| ... | ... | ... └── mapSlice.ts  
| ... | ... └── api/  
| ... | ... | ... └── authApi.ts  
| ... | ... | ... └── propertyApi.ts  
| ... | ... | ... └── agentApi.ts  
| ... | ... | ... └── chatApi.ts  
| ... | ... └── services/  
| ... | ... | ... └── api.ts
```

```
|-|-|- auth.ts  
|-|-|- mapbox.ts  
|-|-|- blockchain.ts  
|-|-|- chatbots.ts  
|-|- utils/  
|  |- constants.ts  
|  |- helpers.ts  
|  |- validation.ts  
|  |- formatters.ts  
|-|- hooks/  
|  |- useAuth.ts  
|  |- useProperties.ts  
|  |- useAgents.ts  
|  |- useChat.ts  
|-|- _tests_/  
|-|- components/  
|-|- pages/  
|-|- utils/  
|- Dockerfile  
  
|- backend/  
|  |- package.json  
|  |- tsconfig.json  
|  |- .env.example  
|  |- prisma/  
|    |- schema.prisma  
|    |- migrations/  
|      |- seed.ts  
|  |- src/  
|    |- server.ts  
|    |- app.ts  
|    |- config/  
|      |- database.ts  
|      |- blockchain.ts  
|      |- auth.ts  
|      |- redis.ts  
|    |- controllers/  
|      |- authController.ts  
|      |- propertyController.ts  
|      |- agentController.ts  
|      |- userController.ts  
|      |- chatController.ts  
|      |- blockchainController.ts  
|    |- middleware/
```

```
|- ... |   |- auth.ts  
|- ... |   |- validation.ts  
|- ... |   |- rateLimiter.ts  
|- ... |   |- errorHandler.ts  
|- ... |   |- logger.ts  
|- ... |   |- models/  
|- ... |     |- User.ts  
|- ... |     |- Property.ts  
|- ... |     |- Agent.ts  
|- ... |     |- Transaction.ts  
|- ... |     |- Chat.ts  
|- ... |   |- routes/  
|- ... |     |- index.ts  
|- ... |     |- auth.ts  
|- ... |     |- properties.ts  
|- ... |     |- agents.ts  
|- ... |     |- users.ts  
|- ... |     |- chat.ts  
|- ... |     |- blockchain.ts  
|- ... |   |- services/  
|- ... |     |- authService.ts  
|- ... |     |- propertyService.ts  
|- ... |     |- agentService.ts  
|- ... |     |- blockchainService.ts  
|- ... |     |- aiService.ts  
|- ... |     |- emailService.ts  
|- ... |     |- chatbotService.ts  
|- ... |     |- mapService.ts  
|- ... |   |- utils/  
|- ... |     |- constants.ts  
|- ... |     |- helpers.ts  
|- ... |     |- validation.ts  
|- ... |     |- encryption.ts  
|- ... |   |- types/  
|- ... |     |- index.ts  
|- ... |     |- property.ts  
|- ... |     |- user.ts  
|- ... |     |- blockchain.ts  
|- ... |   |- _tests_/  
|- ... |     |- controllers/  
|- ... |     |- services/  
|- ... |     |- utils/  
|- Dockerfile
```

```
├── blockchain/
│   ├── package.json
│   ├── truffle-config.js
│   └── contracts/
│       ├── PropertyVerification.sol
│       └── Migrations.sol
│   └── migrations/
│       ├── 1_initial_migration.js
│       └── 2_deploy_contracts.js
└── test/
    └── PropertyVerification.test.js
└── scripts/
    ├── deploy.js
    └── verify.js

ai/
├── package.json
├── requirements.txt
└── chatbot/
    ├── main.py
    ├── intents.json
    └── responses.py
└── rate-analysis/
    ├── model.py
    ├── train.py
    └── predict.py
    └── data/
        └── sample_data.csv
└── api/
    ├── app.py
    └── routes.py

infrastructure/
├── docker/
│   ├── nginx/
│   │   ├── nginx.conf
│   │   └── Dockerfile
│   └── redis/
│       └── redis.conf
└── k8s/
    ├── deployment.yaml
    ├── service.yaml
    └── ingress.yaml
└── terraform/
```

```
..... └── main.tf  
..... └── variables.tf  
..... └── outputs.tf  
  
└── .github/  
    └── workflows/  
        ├── ci.yml  
        ├── cd.yml  
        └── test.yml
```

Key Configuration Files

Root Package.json

```

json

{
  "name": "propertyconnect",
  "version": "1.0.0",
  "description": "Real Estate Platform with Blockchain Verification",
  "private": true,
  "workspaces": [
    "frontend",
    "backend",
    "blockchain",
    "ai"
  ],
  "scripts": {
    "dev": "concurrently \"npm run dev:frontend\" \"npm run dev:backend\"",
    "dev:frontend": "cd frontend && npm run dev",
    "dev:backend": "cd backend && npm run dev",
    "build": "npm run build:frontend && npm run build:backend",
    "build:frontend": "cd frontend && npm run build",
    "build:backend": "cd backend && npm run build",
    "test": "npm run test:frontend && npm run test:backend",
    "test:frontend": "cd frontend && npm test",
    "test:backend": "cd backend && npm test",
    "docker:build": "docker-compose build",
    "docker:up": "docker-compose up -d",
    "docker:down": "docker-compose down"
  },
  "devDependencies": {
    "concurrently": "^7.6.0"
  }
}

```

Docker Compose

yaml

```
version: '3.8'

services:
  frontend:
    build: ./frontend
    ports:
      - "3000:3000"
    environment:
      - NODE_ENV=development
      - VITE_API_URL=http://localhost:5000
    depends_on:
      - backend
    volumes:
      - ./frontend:/app
      - /app/node_modules

  backend:
    build: ./backend
    ports:
      - "5000:5000"
    environment:
      - NODE_ENV=development
      - DATABASE_URL=postgresql://user:password@postgres:5432/propertyconnect
      - REDIS_URL=redis://redis:6379
    depends_on:
      - postgres
      - redis
    volumes:
      - ./backend:/app
      - /app/node_modules

  postgres:
    image: postgres:15
    environment:
      - POSTGRES_DB=propertyconnect
      - POSTGRES_USER=user
      - POSTGRES_PASSWORD=password
    volumes:
      - postgres_data:/var/lib/postgresql/data
    ports:
      - "5432:5432"

  redis:
```

```
....image: redis:7-alpine
....ports:
....  - "6379:6379"

...ai-service:
  build: ./ai
  ....ports:
  ....  - "8000:8000"
  ....environment:
  ....  - FLASK_ENV=development
  ....depends_on:
  ....  - redis

volumes:
..postgres_data:
```

Environment Variables (.env.example)

env

```
# Database
DATABASE_URL=postgresql://user:password@localhost:5432/propertyconnect
REDIS_URL=redis://localhost:6379

# Authentication
JWT_SECRET=your-jwt-secret-here
JWT_EXPIRES_IN=7d
AUTH0_DOMAIN=your-auth0-domain
AUTH0_CLIENT_ID=your-auth0-client-id
AUTH0_CLIENT_SECRET=your-auth0-client-secret

# Blockchain
ETHEREUM_RPC_URL=https://mainnet.infura.io/v3/your-project-id
PRIVATE_KEY=your-private-key-here
CONTRACT_ADDRESS=your-contract-address

# APIs
GOOGLE_MAPS_API_KEY=your-google-maps-api-key
MAPBOX_ACCESS_TOKEN=your-mapbox-token
INTERCOM_ACCESS_TOKEN=your-intercom-token

# AI Services
OPENAI_API_KEY=your-openai-api-key
DIALOGFLOW_PROJECT_ID=your-dialogflow-project-id
DIALOGFLOW_CREDENTIALS=path/to/credentials.json

# Email
SMTP_HOST=smtp.gmail.com
SMTP_PORT=587
SMTP_USER=your-email@gmail.com
SMTP_PASS=your-app-password

# Cloud Storage
AWS_ACCESS_KEY_ID=your-aws-access-key
AWS_SECRET_ACCESS_KEY=your-aws-secret-key
AWS_REGION=us-east-1
AWS_S3_BUCKET=propertyconnect-uploads

# Development
NODE_ENV=development
PORT=5000
FRONTEND_URL=http://localhost:3000
```

Core Implementation Files

Frontend - Main App Component

typescript

```
// frontend/src/App.tsx
import React from 'react';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import { Provider } from 'react-redux';
import { store } from './store';
import { AuthProvider } from './contexts/AuthContext';
import { ErrorBoundary } from './components/common/ErrorBoundary';
import { Header } from './components/common/Header';
import { Footer } from './components/common/Footer';
import { ChatBot } from './components/chat/ChatBot';
import { HomePage } from './pages/HomePage';
import { PropertyListingsPage } from './pages/PropertyListingsPage';
import { PropertyDetailsPage } from './pages/PropertyDetailsPage';
import { AgentDashboardPage } from './pages/AgentDashboardPage';
import { BuyerDashboardPage } from './pages/BuyerDashboardPage';
import { LoginPage } from './pages/LoginPage';
import { RegisterPage } from './pages/RegisterPage';
import { NotFoundPage } from './pages/NotFoundPage';
import { ProtectedRoute } from './components/auth/ProtectedRoute';
import 'mapbox-gl/dist/mapbox-gl.css';

function App() {
  return (
    <ErrorBoundary>
      <Provider store={store}>
        <AuthProvider>
          <Router>
            <div className="min-h-screen bg-gray-50">
              <Header />
              <main className="flex-1">
                <Routes>
                  <Route path="/" element={<HomePage />} />
                  <Route path="/properties" element={<PropertyListingsPage />} />
                  <Route path="/properties/:id" element={<PropertyDetailsPage />} />
                  <Route path="/login" element={<LoginPage />} />
                  <Route path="/register" element={<RegisterPage />} />
                  <Route
                    path="/agent/dashboard"
                    element={
                      <ProtectedRoute role="agent">
                        <AgentDashboardPage />
                      </ProtectedRoute>
                    }
                
```

```
.....      />
.....      <Route
.....        path="/buyer/dashboard"
.....        element={
.....          <ProtectedRoute role="buyer">
.....            <BuyerDashboardPage />
.....          </ProtectedRoute>
.....        }
.....      />
.....      <Route path="*" element={<NotFoundPage />} />
.....    </Routes>
.....  </main>
.....  <Footer />
.....  <ChatBot />
.....  </div>
.....</Router>
.....</AuthProvider>
.....</Provider>
....</ErrorBoundary>
...);
}
}

export default App;
```

Backend - Main Server

typescript

```
// backend/src/server.ts

import express from 'express';
import cors from 'cors';
import helmet from 'helmet';
import morgan from 'morgan';
import rateLimit from 'express-rate-limit';
import { PrismaClient } from '@prisma/client';
import { errorHandler } from './middleware/errorHandler';
import { logger } from './middleware/logger';
import routes from './routes';

const app = express();
const prisma = new PrismaClient();

// Security middleware
app.use(helmet());
app.use(cors({
  origin: process.env.FRONTEND_URL || 'http://localhost:3000',
  credentials: true
}));

// Rate limiting
const limiter = rateLimit({
  windowMs: 15 * 60 * 1000, // 15 minutes
  max: 100, // limit each IP to 100 requests per windowMs
  message: 'Too many requests from this IP, please try again later.'
});
app.use('/api/', limiter);

// Body parsing
app.use(express.json({ limit: '10mb' }));
app.use(express.urlencoded({ extended: true }));

// Logging
app.use(morgan('combined', { stream: { write: (message) => logger.info(message.trim()) } }));

// Health check
app.get('/health', (req, res) => {
  res.json({ status: 'OK', timestamp: new Date().toISOString() });
});

// API routes
app.use('/api', routes);
```

```
// Error handling
app.use(errorHandler);

const PORT = process.env.PORT || 5000;

app.listen(PORT, () => {
.. console.log(`Server running on port ${PORT}`);
.. console.log(`Environment: ${process.env.NODE_ENV}`);
});

// Graceful shutdown
process.on('SIGTERM', async () => {
.. console.log('SIGTERM received, shutting down gracefully');
.. await prisma.$disconnect();
.. process.exit(0);
});
```

Database Schema (Prisma)

prisma

```
// backend/prisma/schema.prisma
generator client {
    provider = "prisma-client-js"
}

datasource db {
    provider = "postgresql"
    url     = env("DATABASE_URL")
}

model User {
    id      String @id @default(cuid())
    email   String @unique
    password String
    firstName String
    lastName String
    phone   String?
    avatar   String?
    role     Role    @default(BUYER)
    isVerified Boolean @default(false)
    createdAt DateTime @default(now())
    updatedAt DateTime @updatedAt

    // Relations
    agent    Agent?
    buyer    Buyer?
    messages Message[]
    transactions Transaction[]

    @@map("users")
}

model Agent {
    id      String @id @default(cuid())
    userId  String @unique
    licenseNumber String @unique
    agency   String
    experience Int
    rating   Float  @default(0)
    reviewCount Int   @default(0)
    responseTime Int  @default(24) // hours
    bio     String?
    specialties String[]
}
```

```

..serviceAreas String[]
..isActive Boolean @default(true)
createdAt DateTime @default(now())
updatedAt DateTime @updatedAt

// Relations
user User @relation(fields: [userId], references: [id], onDelete: Cascade)
properties Property[]
collaborations Collaboration[]
metrics AgentMetric[]

@@map("agents")
}

```

```

model Buyer {
..id String @id @default(cuid())
..userId String @unique
..preferredAreas String[]
..budgetMin Int?
..budgetMax Int?
..propertyTypes PropertyType[]
..savedProperties String[]
..createdAt DateTime @default(now())
..updatedAt DateTime @updatedAt

```

```

// Relations
user User @relation(fields: [userId], references: [id], onDelete: Cascade)

@@map("buyers")
}

```

```

model Property {
..id String @id @default(cuid())
..title String
..description String
..type PropertyType
..status PropertyStatus @default(ACTIVE)
..price Int
..currency String @default("USD")
..bedrooms Int?
..bathrooms Int?
..area Int
..areaUnit String @default("sqft")
..address String

```

```

city.....String
state.....String
zipCode.....String
country.....String.....@default("US")
coordinates.....Json // {lat: number, lng: number}
images.....String[]
virtualTourUrl.....String?
amenities.....String[]
yearBuilt.....Int?
lotSize.....Int?
isVerified.....Boolean.....@default(false)
blockchainTxHash.....String?
localInsights.....Json? // School ratings, crime rates, etc.
aiAnalysis.....Json? // AI-generated insights
createdAt.....DateTime.....@default(now())
updatedAt.....DateTime.....@updatedAt

// Relations
agentId.....String
agent.....Agent.....@relation(fields: [agentId], references: [id])
transactions.....Transaction[]
collaborations.....Collaboration[]

@@map("properties")
}

model Transaction {

```

```

id.....String.....@id @default(cuid())
propertyId.....String
buyerId.....String
agentId.....String
type.....TransactionType
amount.....Int
status.....TransactionStatus @default(PENDING)
contractHash.....String?
completedAt.....DateTime?
createdAt.....DateTime.....@default(now())
updatedAt.....DateTime.....@updatedAt

```

```

// Relations
property.....Property @relation(fields: [propertyId], references: [id])
buyer.....User.....@relation(fields: [buyerId], references: [id])

@@map("transactions")

```

```
}
```

```
model Collaboration {  
    id ..... String .. @id @default(cuid())  
    propertyId String  
    primaryAgentId String  
    secondaryAgentId String  
    type ..... CollaborationType  
    splitRatio Float @default(0.5)  
    status .... CollaborationStatus @default(PENDING)  
    createdAt DateTime @default(now())  
    updatedAt DateTime @updatedAt  
  
    // Relations  
    property .... Property @relation(fields: [propertyId], references: [id])  
    primaryAgent Agent ... @relation(fields: [primaryAgentId], references: [id])  
  
    .. @@map("collaborations")  
}
```

```
model Message {  
    id ..... String .... @id @default(cuid())  
    senderId ... String  
    receiverId String?  
    content String  
    type ..... MessageType @default(TEXT)  
    isRead .... Boolean ... @default(false)  
    createdAt DateTime @default(now())  
  
    // Relations  
    sender .... User @relation(fields: [senderId], references: [id])  
  
    .. @@map("messages")  
}
```

```
model AgentMetric {  
    id ..... String .. @id @default(cuid())  
    agentId String  
    month Int  
    year Int  
    propertiesListed Int @default(0)  
    propertiesSold Int ... @default(0)  
    totalRevenue ... Int .... @default(0)  
    avgResponseTime Int @default(0)
```

```
..customerSatisfaction Float @default(0)
..createdAt ..... DateTime @default(now())

// Relations
agent ..... Agent @relation(fields: [agentId], references: [id])
    ..@unique([agentId, month, year])
    ..@map("agent_metrics")
}

enum Role {
    BUYER
    AGENT
    ADMIN
}

enum PropertyType {
    HOUSE
    APARTMENT
    CONDO
    TOWNHOUSE
    LAND
    COMMERCIAL
}

enum PropertyStatus {
    ACTIVE
    PENDING
    SOLD
    WITHDRAWN
}

enum TransactionType {
    SALE
    RENT
    LEASE
}

enum TransactionStatus {
    PENDING
    APPROVED
    COMPLETED
    CANCELLED
}
```

```
enum CollaborationType {  
    CO_LISTING  
    REFERRAL  
    JOINT_VENTURE  
}
```

```
enum CollaborationStatus {  
    PENDING  
    ACCEPTED  
    DECLINED  
    COMPLETED  
}
```

```
enum MessageType {  
    TEXT  
    IMAGE  
    DOCUMENT  
    SYSTEM  
}
```

Frontend - Property Search Component

typescript

```
// frontend/src/components/property/PropertySearch.tsx
import React, { useState, useEffect } from 'react';
import { useDispatch, useSelector } from 'react-redux';
import { Search, MapPin, Filter, SlidersHorizontal } from 'lucide-react';
import { setFilters, searchProperties } from '../store/slices/propertySlice';
import { RootState } from '../store';
import { PropertyFilters } from './PropertyFilters';
import { MapView } from './map/MapView';

export const PropertySearch: React.FC = () => {
  const dispatch = useDispatch();
  const { filters, isLoading, properties } = useSelector((state: RootState) => state.property);
  const [searchTerm, setSearchTerm] = useState("");
  const [showFilters, setShowFilters] = useState(false);
  const [viewMode, setViewMode] = useState<'list' | 'map'>('list');

  useEffect(() => {
    dispatch(searchProperties({ ...filters, searchTerm }));
  }, [filters, searchTerm, dispatch]);

  const handleSearch = (e: React.FormEvent) => {
    e.preventDefault();
    dispatch(searchProperties({ ...filters, searchTerm }));
  };

  const handleFilterChange = (newFilters: any) => {
    dispatch(setFilters(newFilters));
  };

  return (
    <div className="w-full">
      /* Search Bar */
      <div className="bg-white rounded-lg shadow-md p-4 mb-6">
        <form onSubmit={handleSearch} className="flex gap-4">
          <div className="flex-1 relative">
            <Search className="absolute left-3 top-3 h-5 w-5 text-gray-400" />
            <input
              type="text"
              placeholder="Search by location, property type, or keywords..."
              className="w-full pl-10 pr-4 py-2 border border-gray-300 rounded-lg focus:ring-2 focus:ring-blue-500 focus:outline-none"
              value={searchTerm}
              onChange={(e) => setSearchTerm(e.target.value)}
            />
          </div>
        </form>
      </div>
    </div>
  );
}
```

```
.....</div>
.....<button
.....  type="button"
.....  onClick={() => setShowFilters(!showFilters)}
.....  className="flex items-center gap-2 px-4 py-2 bg-gray-100 text-gray-700 rounded-lg hover:bg-gray-200"
..... >
.....   <SlidersHorizontal className="h-5 w-5" />
.....   Filters
..... </button>
..... <button
.....  type="submit"
.....  className="px-6 py-2 bg-blue-600 text-white rounded-lg hover:bg-blue-700 disabled:opacity-50"
.....  disabled={isLoading}
..... >
.....   {isLoading ? 'Searching...' : 'Search'}
..... </button>
..... </form>

...../* Filters Panel */
.....{showFilters && (
.....  <div className="mt-4 border-t pt-4">
.....    <PropertyFilters
.....      filters={filters}
.....      onFiltersChange={handleFilterChange}
.....    />
.....  </div>
.....)
.....}
.....</div>

...../* View Mode Toggle */
.....<div className="flex justify-between items-center mb-4">
.....  <div className="flex items-center gap-2">
.....    <span className="text-gray-600">
.....      {properties.length} properties found
.....    </span>
.....  </div>
.....  <div className="flex rounded-lg border border-gray-300 overflow-hidden">
.....    <button
.....      className={`${'px-4 py-2 ${viewMode === 'list' ? 'bg-blue-600 text-white' : 'bg-white text-gray-700'}`}
.....      onClick={() => setViewMode('list')}
.....    >
.....      List
.....    </button>
.....    <button
.....
```

```

..... className={`px-4 py-2 ${viewMode === 'map' ? 'bg-blue-600 text-white' : 'bg-white text-gray-700'}`}
..... onClick={() => setViewMode('map')}
>
Map
</button>
</div>
</div>

/* Results */
{viewMode === 'map' ? (
<MapView properties={properties} />
):((
<div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
{properties.map((property) => (
<PropertyCard key={property.id} property={property} />
)))
</div>
)}
</div>
);
}

```

Backend - Property Controller

typescript

```
// backend/src/controllers/propertyController.ts
import { Request, Response } from 'express';
import { PrismaClient } from '@prisma/client';
import { blockchainService } from './services/blockchainService';
import { aiService } from './services/aiService';
import { mapService } from './services/mapService';
import { validateProperty } from './utils/validation';

const prisma = new PrismaClient();

export const createProperty = async (req: Request, res: Response) => {
  try {
    const { error } = validateProperty(req.body);
    if (error) {
      return res.status(400).json({ error: error.details[0].message });
    }

    const { agentId } = req.user;
```