SMARTBRIDGE:

TEAM MEMBERS:

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**RentSphere - Property Rental Platform**

**DESCRIPTION:**

**RentSphere** is a modern web app that makes renting properties easier for everyone involved. It connects people who want to rent out their properties with people looking for a place to live.

For **tenants**, RentSphere lets them browse rental listings online, see photos, prices, and property details, and send rental requests directly through the app. They can also check the status of their applications without having to call or visit the owner multiple times.

For **property owners**, RentSphere provides tools to list new properties quickly, upload photos, set prices, and manage all their listings in one place. Owners can easily review rental requests from interested tenants and respond to them directly through the platform.

**Administrators** have special tools to oversee the whole system, manage users, and keep everything running smoothly.

RentSphere helps make the rental process faster, more organized, and more transparent. Instead of using paper forms, phone calls, or scattered messages, everything happens in one place online. It saves time for both tenants and owners and makes renting properties simpler and more efficient.

**FEATURES:**

**- Multi-role Authentication:**

Supports tenants, property owners, and administrators.

- **Property Management:**

Add, edit, and manage rental properties with image uploads.

**- Rental Requests:**

Streamlined application process for tenants.

**- Dashboard Views:**

Role-specific dashboards for different user types.

**- Responsive Design:**

Works seamlessly on desktop and mobile devices.

**TECHNOLOGIES USED:**

- Frontend: React 18 with TypeScript

- Build Tool: Vite

- Styling: Tailwind CSS

- UI Components: Shadcn/UI

- Icons: Lucide React

- Routing: React Router DOM

- State Management: React Query (TanStack Query)

- Charts: Recharts

- Backend: Node.js, Express.js

- Database: MongoDB

- Version Control: Git

**GETTING STARTED**:

**Prerequisites:**

- Node.js (v18 or higher)

- npm or yarn

**Installation Steps:**

1. Clone the repository:

git clone <repository-url>

cd rentsphere

2. Install dependencies:

npm install

3. Start the development server:

npm run dev

4. Open your browser:

http://localhost:8080

**PROJECT STRUCTURE**

src/

├── components/ -> Reusable UI components

├── contexts/ -> React contexts (Auth, etc.)

├── hooks/ -> Custom React hooks

├── lib/ -> Utility functions and database logic

├── pages/ -> Page components

└── main.tsx -> Application entry poinT

**AVAILABLE SCRIPTS**

- npm run dev Start development server

- npm run build Build for production

- npm run preview Preview production build

- npm run lint Run ESLint

**USER ROLES**

**TENANTS**

- Browse available properties

- Submit rental requests

- View application status

**PROPERTY OWNERS**

- Add and manage properties

- Upload property images

- Review and respond to rental requests

**ADMINISTRATORS**

- Manage all users and properties

- System-wide oversight and control