Propspace Development Roadmap

Here's a comprehensive 5-phase roadmap for developing the Propspace application from start to finish:

Phase 1: Foundation & Database Setup

Duration: 1-2 weeks

Project Initialization

* Set up Next.js project with TypeScript
* Configure Tailwind CSS
* Set up folder structure (pages, components, hooks, utils)
* Initialize Git repository

Supabase Configuration

* Create Supabase project
* Set up PostgreSQL database schema:

Users table (profiles for landlords and tenants)

Properties table (listings with details)

Images table (property photos)

Messages table (communication)

Favorites table (saved properties)

Configure Row Level Security policies

Set up authentication (email/password, social logins)

API Layer Design

* Create API routes for database interactions
* Set up Supabase client configuration
* Implement basic CRUD operations

Phase 2: Core Functionality

Duration: 2-3 weeks

User Authentication

* Implement sign up and login flows
* Create user profile pages
* Develop role-based access (landlord vs tenant)

Property Management

* Create property listing form
* Build image upload functionality
* Implement property edit/delete capabilities
* Develop property detail view

Search & Discovery

* Build property search component
* Implement filters (price, bedrooms, location)
* Create property grid/list views
* Develop property card component

Phase 3: Social Features & User Experience

Duration: 2 weeks

Social Interactions

* Implement favorites/bookmarking
* Build rating and review system
* Create landlord profile views with ratings

Messaging System

* Develop real-time messaging using Supabase Realtime
* Build conversation interface
* Implement notifications for new messages

Feed & Navigation

* Create home feed with property listings
* Implement navigation and routing
* Build mobile-responsive layouts

Phase 4: Polish & Optimization

Duration: 1-2 weeks

UI/UX Refinement

* Implement loading states and animations
* Add error handling and validation
* Optimize for different screen sizes
* Implement dark/light mode

Performance Optimization

* Set up image optimization with Next.js Image
* Implement pagination for listings
* Add caching strategies
* Optimize database queries

Testing

* Write unit tests for components
* Perform integration testing
* Conduct user testing

Phase 5: Deployment & Launch

Duration: 1 week

Deployment Setup

* Configure Vercel project
* Set up environment variables
* Connect to Supabase production instance

Final QA

* Cross-browser testing
* Security review
* Performance benchmarking

Launch Preparation

* Documentation finalization
* Create user guides
* Set up monitoring
* Deploy to production

Each phase builds upon the previous one, following a logical progression from database foundation to a fully functional application. This approach ensures we have a working product at each stage that can be tested and refined before moving to the next phase.