Smart Notes - A Notes Application

Built with Next.js, TypeScript, SQLite, Prisma

Task 7
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Explain the Problem & User

The Problem

- Digital note-taking is fragmented users switch between multiple apps
- Poor search capabilities finding specific notes is time-consuming
- Lack of organization no efficient tagging or categorization

Target Users

- Students organizing lecture notes and research
- Professionals managing meeting notes and project ideas
- Content creators collecting ideas and inspiration

Key Features Solving These Problems

- CRUD Operations: Create, read, update, delete notes seamlessly
- Smart Search: Find notes by title, content, or tags instantly
- Tag System: Organize notes with flexible categorization

Design

- 1. User inputs data to the Frontend.
- Frontend sends this data to the API Route.
- 3. API Route queries the Database.
- Database returns data to the API Route.
- 5. API Route delivers this data back to the Frontend.
- 6. Frontend displays the data to the User.

Demonstrate a Feature

- Feature Showcase: Smart Note Creation
- Feature Showcase: Advanced Search
- Feature Showcase: Note Management

Challenges Encountered

- Real-time Search Performance
- Tag Management Complexity

Al Tools Integration

- Cursor AI: Used for rapid component generation and debugging
- Vibe Coding Approach: Conversational development with natural language prompts

Future Development Ideas

- Authentication: User accounts with secure note privacy
- Note Templates: Pre-defined structures for meeting notes, lists, etc.
- Note Sharing: Public links for note sharing
- Version History: Track note changes over time