**🧠 Project Purpose**

You're creating a **visual note-taking application** inspired by tools like Milanote. It allows you to:

* Create draggable, resizable **sticky notes**
* Organize notes on **“boards”** — which are essentially digital canvases
* **Drag and drop files** (e.g. PDFs, documents) into notes
* Double-click a board to open an **empty sub-board**, recursively

**🛠️ Technologies Used**

**🔹 Frontend (User Interface)**

* **Vue.js** (with Composition API) – for building dynamic UI components
* **Vite** – for blazing-fast frontend tooling and dev server
* **Axios** – for making HTTP requests to your backend API
* **Drag-and-drop HTML API + custom styling** – to move and resize sticky notes interactively

**🔹 Backend**

* **Django** – for handling business logic and database models
* **Django REST Framework** – for exposing RESTful APIs
* **Django Auth & Token Authentication** – for securing access to boards, notes, documents

**🔹 Database**

* **SQLite** (default during development) – to store boards, notes, users, and uploaded documents

**🧩 Core Components and Features**

| **Feature** | **Description** |
| --- | --- |
| **Boards** | A canvas for organizing notes and files; users can create multiple boards |
| **Notes (Sticky)** | Positioned on boards; draggable, resizable; can contain text and files |
| **Documents** | File uploads (PDF, DOCX, etc.) attached to a note or board |
| **Authentication** | Users log in to manage their private boards and notes |
| **API** | Board–Note–Document relationships managed via RESTful endpoints |