ADPA Dev Environment Checklist

ADPA Development Environment Setup Checklist

This checklist will help you set up the development environment for the ADPA project, following the technical stack and requirements in the implementation plan.

1. Prerequisites

- ☑ Install **Node.js** (version 18.x or higher)
- ☑ Install **npm** (comes with Node.js) or **yarn**
- ☑ Install **Docker** (for containerization and local development)
- ☑ Install **Git** (for version control)
- ☐ (Optional) Install **Kubernetes** (for local cluster testing)
- ☐ (Optional) Install **VS Code** or your preferred IDE

2. Repository Setup

- ☑ Clone the repository: `git clone <repo-url>`
- ☑ Install dependencies: `npm install` or `yarn install`
- ☑ Review and update `.env` and configuration files as needed

- ☑ Ensure `config-rga.json` is present and configured

3. TypeScript & Linting

- ☑ Ensure **TypeScript** (≥5.7) is installed: `npm install -g typescript` (if not already)
- ☑ Compile the project: `npm run build` or `tsc`
- ☑ Run linter: `npm run lint` (if available)

4. Frontend Setup

- ☑ Install frontend dependencies in `admin-interface` (if separate): `cd admin-interface && npm install`
- ☑ Start the Next.js/React admin portal: `npm run dev` or `yarn dev`

5. Backend/API Setup

- ☑ Start the API server: `npm run start:api` or `npm run dev:api`
- ☑ Verify Express.js endpoints are running (default: `http://localhost:3001/api/v1`)

6. Database & Storage (if required)

- ☐ Set up any required databases (e.g., PostgreSQL, MongoDB) as per documentation
- ☐ Configure connection strings in `.env` or config files

7. AI Provider Integration

- ☑ Obtain API keys/tokens for OpenAI, Google AI, Copilot, Ollama, etc.
- ☑ Add credentials to `.env` or secure config
- ☑ Test provider connectivity (see project scripts or test commands)

8. Optional: Docker & Kubernetes

- ☑ Build Docker images: `docker build -t adpa .`
- ☑ Run containers locally: `docker-compose up`
- ☐ (Optional) Deploy to local Kubernetes cluster

9. Validation

- ☑ Run all tests: `npm test` or `yarn test`
- ☑ Verify CLI, API, and web portal are operational
- ☑ Confirm document generation works end-to-end

Update this checklist as the project evolves or as new requirements are added.