

# ADPA Dev Environment Checklist

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## ADPA Development Environment Setup Checklist

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

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### 1. Prerequisites

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- ☒ 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

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- ☒ 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

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- ☒ Ensure **TypeScript** ( $\geq 5.7$ ) 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

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- ☒ 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

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- ☒ 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)

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

### 7. AI Provider Integration

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- ☒ 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

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

## 9. Validation

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

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

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