

Got it – here's a **professional README structure** tailor-made for your project (frontend, backend, infra, k8s) with GitHub best practices. You can copy-paste and then adjust the links and badges later.

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## # MT Trade - Monorepo (Frontend + Backend + Infra + K8s)

```
[![CI/CD](https://img.shields.io/github/actions/workflow/status/talha0pse/mt-trade/ci.yml)](https://github.com/talha0pse/mt-trade/actions)
[![License](https://img.shields.io/github/license/talha0pse/mt-trade)](LICENSE)
```

A professional monorepo structure for **MT Trade**, containing:

- Frontend (React)
- Backend (Node.js / Express)
- Infra (IaC - Infrastructure as Code)
- Kubernetes deployments (K8s manifests)

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## ## Monorepo Structure

MT-Trade/ ├── frontend/ # React app (user interface) ├── backend/ # Node.js backend (APIs, auth, trade logic) ├── infra/ # Infrastructure as Code (Terraform / Pulumi) ├── k8s/ # Kubernetes YAML manifests (Deployments, Services) ├── .github/ # GitHub workflows and automation ├── .vercel/ # Vercel deployment config ├── .gitignore └── README.md

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## ## Getting Started

### ### 1. Clone the Repository

```
``bash
git clone https://github.com/talha0pse/mt-trade.git
cd mt-trade
```

## 2. Setup Frontend (React)

```
cd frontend
npm install
npm start
```

## 3. Setup Backend (Node.js)

```
cd backend
npm install
npm run dev
```

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## Infrastructure & Deployment

## Kubernetes (K8s)

- All K8s manifests (Deployments, Services, Ingress) are inside the `/k8s` folder.
- Apply using:

```
kubectl apply -f k8s/
```

## Infra (IaC)

- Cloud infrastructure config is stored in `/infra`.
- Can be managed via Terraform or Pulumi (based on team preference).

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## CI/CD

- GitHub Actions are used for automated testing and deployments.
- Rules enforced via branch protection and Pull Requests.
- Status checks include:
  - Linting
  - Tests
  - Build verification

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## Security & Best Practices

- Code Scanning (via GitHub Advanced Security)
- Signed commits required
- Pull Requests are mandatory for merging into `main`.

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## Project Docs

- [Project PDFs](#) – architecture diagrams, setup guides.
- Detailed `infra` and `k8s` deployment steps are provided inside respective folders.

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## Contributing

1. Fork this repo
2. Create your branch ( `git checkout -b feature/my-feature` )
3. Commit with signed commits ( `git commit -S -m "feat: my feature"` )
4. Push and create a Pull Request

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## License

This project is licensed under the [MIT License](#).

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### Now for **your next steps**:

- Paste this README into your `MT/README.md`.

- Commit and push it.
- We can later enhance it with real **CI badge links**, and **deployment guide links** (e.g., to your PDF docs folder).

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Would you also like me to show you how to quickly **add badges** for:

- **Frontend (Vercel)**
- **Backend (Render)**
- **Kubernetes Deployments**

? (Optional, but makes your README look even more "pro")

Just say: **"Yes, show badges too"**.