CI Pipeline Documentation

1. Fork the Repository

Each intern should fork the main repository into their GitHub account to work independently. This ensures isolated development without affecting the main repository.

2. Review the Codebase

Reviewed the codebase and identified dependency files:
- frontend/package.json
- backend/package.json

3. Understand the Architecture

Reviewed provided documentation/diagrams to understand the high-level architecture and workflow of the system.

4. Setup CI Workflow

Created a CI workflow file under `.github/workflows/ci.yml` to automate build processes.

5. Add Steps for CI

The CI pipeline includes the following steps:
- Checkout repository
- Setup Node.js environment
- Install frontend dependencies
- Lint frontend
- Build frontend
- Install backend dependencies
- Lint backend
- Test backend

6. Run Tests

Backend tests were configured with Jest and executed in the pipeline successfully.

Current Status

✅ CI pipeline has been implemented successfully for both frontend and backend. Build and test steps passed in GitHub Actions.

build (18.x)
succeeded 12 minutes ago in 17s

Summary

Jobs

✅ build (18.x)

Run details

⏱ Usage

Workflow file

✅ Checkout repository		0s
✅ Use Node.js 18.x		3s
✅ Install frontend dependencies		4s
✅ Lint frontend		1s
✅ Build frontend		2s
✅ Install backend dependencies		2s
✅ Lint backend		1s
✅ Test backend		1s
✅ Post Use Node.js 18.x		0s
✅ Post Checkout repository		0s
✅ Complete job		0s

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