Atlassian Bug Tracker

Local Development Setup Guide

Prerequisites

- Python 3.11+ with Poetry installed
- Node.js 18+ with npm
- Docker (for PostgreSQL database)
- Anthropic API key (for AI triage features)

Step 1: Start PostgreSQL Database

Run the following command to start PostgreSQL in Docker:

```
docker run --name postgres-atlassian \
  -e POSTGRES_USER=atlassian_user \
  -e POSTGRES_PASSWORD=atlassian_pass \
  -e POSTGRES_DB=atlassian_bugs \
  -p 5432:5432 -d postgres:latest
```

Step 2: Install Backend Dependencies

```
cd backend && poetry install --no-root
```

Step 3: Initialize the Database

```
poetry run python scripts/init_db.py
```

Step 4: Configure Environment Variables

Create **backend/.env** file with:

```
DATABASE_URL=postgresql://atlassian_user:atlassian_pass@localhost:5432/atlassian_bugs
ANTHROPIC_API_KEY=sk-ant-your-key-here
ALLOWED_ORIGINS=http://localhost:3000
```

Get your API key from: https://console.anthropic.com

Step 5: Start the Backend Server

```
poetry run uvicorn app.main:app --reload --host 0.0.0.0 --port 8000
```

API will be available at: http://localhost:8000

Step 6: Install Frontend Dependencies (new terminal)

```
cd .. && npm install
```

Step 7: Update Frontend API URL

Edit **src/lib/api.ts** and change API_BASE_URL to:

```
http://localhost:8000/api
```

Step 8: Start the Frontend Server

```
npm run dev
```

Dashboard will be available at: http://localhost:3000

Step 9: Load Bug Data (optional)

```
curl -X POST "http://localhost:8000/api/bugs/sync?auto_triage=true"
```

Access Points Summary

Service	URL	Purpose
Dashboard	http://localhost:3000	Main Bug Tracker UI
API Server	http://localhost:8000	REST API endpoints
API Docs	http://localhost:8000/docs	Interactive Swagger docs

Quick Reference - All Commands

```
# Terminal 1 - Database & Backend
docker run --name postgres-atlassian -e POSTGRES_USER=atlassian_user -e POSTGRES_PASSWORD=atlassian_pass -e
POSTGRES_DB=atlassian_bugs -p 5432:5432 -d postgres:latest
cd backend && poetry install --no-root && poetry run python scripts/init_db.py
poetry run uvicorn app.main:app --reload --host 0.0.0.0 --port 8000

# Terminal 2 - Frontend
npm install && npm run dev
```