DevOps Portfolio - Setup & Deployment Guide

Local Development

```
# Clone repository
git clone https://github.com/<your-username>/devOps_portfolio.git
cd devOps_portfolio

# Install dependencies
npm install

# Run locally
npm run dev

# Build project
npm run build

# Preview build
npm run preview
```

Deployment - Manual

```
# Deploy manually to GitHub Pages
npm run deploy
```

Deployment - Automatic (GitHub Actions)

Create a workflow file at .github/workflows/deploy.yml

```
name: Deploy Portfolio

on:
  push:
    branches:
      - main

permissions:
  contents: write

jobs:
  build-and-deploy:
    runs-on: ubuntu-latest

    steps:
      - name: Checkout Code
        uses: actions/checkout@v4

      - name: Setup Node.js
        uses: actions/setup-node@v4
        with:
          node-version: 20
          cache: 'npm'
```

```
    - name: Install Dependencies
      run: npm install

    - name: Build Project
      run: npm run build

    - name: Deploy to GitHub Pages
      uses: peaceiris/actions-gh-pages@v4
      with:
        github_token: ${{ secrets.GITHUB_TOKEN }}
        publish_dir: ./dist
```

Project Structure

```
devops_portfolio/
■■■ src/               # React components
■   ■■■ components/    # UI components (Hero, Skills, Projects, Contact, etc.)
■■■ assets/            # Images, icons
■■■ dist/              # Production build (generated)
■■■ package.json       # Project config & scripts
■■■ vite.config.ts     # Vite config
■■■ tailwind.config.js # TailwindCSS config
■■■ tsconfig.json      # TypeScript config
```

Editing Content

```
- Hero section → src/components/Hero.tsx
- Skills → src/components/Skills.tsx
- Projects → src/components/Projects.tsx
- Contact info → src/components/Contact.tsx
```

Update the text, save, commit, and push — deployment will happen automatically.

Git Commands Summary

```
# Commit & Push changes
git add .
git commit -m "update portfolio"
git push origin main
```

Live Demo

```
Once deployed, your portfolio will be live at:
https://<your-username>.github.io/devOps_portfolio/
```