# Running a Next.js Project Locally

## ✅ Prerequisites

Before starting, make sure you have the following installed:

- Node.js (Recommended version 20.x)

Download Node.js: https://nodejs.org/

- npm

Comes with Node.js. You can verify with:

node -v  
 npm -v

## 📦 Installation Steps

1. Clone the Repository

2. open the directory

3. cd frontend

2. Install Dependencies

Using npm:  
 npm install

## 🚀 Running the Project Locally

Start the development server:

Using npm:  
 npm run dev

The app will be available at:  
http://localhost:3000

## ⚙️ Environment Variables (Optional)

If your project uses environment variables, create a `.env.local` file in the root directory:

touch .env.local

Then, add your variables:

NEXT\_PUBLIC\_API\_URL=https://api.example.com  
SECRET\_KEY=my-secret

Make sure you don’t commit sensitive info by adding `.env.local` to your `.gitignore`.

## 📁 Useful Scripts

Script | Description

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npm run dev | Starts the development server

npm run build | Builds the production version

npm start | Runs the production build locally

npm run lint | Runs ESLint to check for issues

## ❓ Troubleshooting

- Port in use (3000)?

PORT=3001 npm run dev

- Module not found?

Run `npm install` again or check your `package.json`.

## 🧹 Clean Setup (If Needed)

If things break and you want a clean slate:

rm -rf node\_modules  
rm package-lock.json # or yarn.lock  
npm install # or yarn install