

SETUP AND LOCAL DEPLOYMENT INSTRUCTIONS

Prerequisites

Before you begin, make sure you have the following software installed on your computer:

- [Node.js](#) (with npm)
- [MongoDB](#)
- [Git](#)

Setup Instructions

1. **Clone the Repository:**

GIT BASH

```
git clone https://github.com/yourusername/your-mern-project.git cd your-mern-project
```

2. **Install Backend Dependencies:**

NOTE: After cloning completion and opening the folder in any Environment, make sure to create a new folder named “client” and move “src” and “public” folder into client.

In the project root directory, install the server-side dependencies:

GIT BASH

```
cd server
```

```
npm install
```

3. **Configure Environment Variables:**

Create a **.env** file in the **server** directory and configure your MongoDB connection URI, e.g.,

```
MONGODB_URI=mongodb://localhost:27017/your-database-name
```

```
PORT=5000
```

Modify these values according to your MongoDB setup and preferred port.

4. **Install Frontend Dependencies:**

Move back to the project root directory and install the client-side dependencies:

GIT BASH

```
cd ..
```

```
cd client
```

npm install

5. Start the Development Server:

In the **server** directory, start the Node.js server:

GIT BASH

npm start

In the **client** directory, start the React development server:

GIT BASH

npm start

6. Access Your Application:

Your MERN application is now running. You can access it in your web browser at **http://localhost:3000** (the React development server's default port).

Local Deployment

To deploy your MERN project locally, follow these steps:

1. Build the React App:

In the **client** directory, build your React application for production:

GIT BASH

npm run build

This will create an optimized build of your app in the **client/build** directory.

2. Start the Production Server:

In the **server** directory, start the Node.js server for production:

GIT BASH

npm start

Your application will be available at **http://localhost:5000** (or the port you specified in your **.env** file).

Your MERN project is now set up and deployed locally. You can access it through your web browser. Make sure to replace placeholders like **your-mern-project**, **yourusername**, and database configurations with your actual project and database details.