

Here's a **complete list of dependencies** for both frontend and backend (React + Node.js + TypeScript):

Frontend Dependencies

(Run these in the project root)

Core Packages

```
```bash
npm install react react-dom react-router-dom
npm install @types/react @types/react-dom @types/react-router-dom
```
```

State Management & Forms

```
```bash
npm install react-hook-form @hookform/resolvers yup
npm install @emailjs/browser # For frontend email integration
```
```

Styling & UI

```
```bash
npm install tailwindcss @headlessui/react postcss autoprefixer
npm install react-icons framer-motion @types/framer-motion
```
```

HTTP & SEO

```
```bash
npm install axios @types/axios
npm install react-helmet @types/react-helmet
npm install @loadable/component # Optional: Code splitting
```
```

Development & Build Tools

```
```bash
npm install vite @vitejs/plugin-react --save-dev
npm install typescript @types/node ts-node --save-dev
npm install prettier eslint eslint-config-prettier --save-dev
npm install husky lint-staged --save-dev
```
```

Testing

```
```bash
npm install @testing-library/react @testing-library/jest-dom @testing-library/user-event vitest --save-dev
```
```

Deployment

```
```bash
npm install gh-pages --save-dev # For GitHub Pages
```
```

Backend Dependencies

(Run these in a separate `/server` directory)

Core Packages

```
```bash
npm install express cors helmet morgan dotenv
npm install @types/express @types/cors @types/morgan @types/node --save-dev
```
```

Email Service

```
```bash
npm install nodemailer @types/nodemailer --save-dev # Alternative to EmailJS
```
```

Database (Optional)

```
```bash
MongoDB
npm install mongoose @types/mongoose
OR PostgreSQL
npm install pg @types/pg
```
```

Authentication (Optional)

```
```bash
npm install jsonwebtoken bcrypt
npm install @types/jsonwebtoken @types/bcrypt --save-dev
```
```

Testing

```
```bash
npm install jest ts-jest supertest @types/supertest --save-dev
```
```

Full Installation Scripts

Frontend Setup

```
```bash
In project root
```

```
npm install react react-dom react-router-dom @types/react @types/react-dom
@types/react-router-dom react-hook-form @hookform/resolvers yup
@emailjs/browser axios @types/axios tailwindcss @headlessui/react postcss
autoprefixer react-icons framer-motion @types/framer-motion react-helmet
@types/react-helmet vite @vitejs/plugin-react typescript @types/node ts-node prettier
eslint eslint-config-prettier husky lint-staged @testing-library/react @testing-
library/jest-dom @testing-library/user-event vitest gh-pages --save-dev
` ``
```

#### #### **\*\*Backend Setup\*\***

```
` `` bash
In /server directory
npm install express cors helmet morgan dotenv nodemailer mongoose jsonwebtoken
bcrypt @types/express @types/cors @types/morgan @types/node @types/nodemailer
@types/mongoose @types/jsonwebtoken @types/bcrypt jest ts-jest supertest
@types/supertest --save-dev
` ``
```

---

#### ### **\*\*Critical Notes\*\***

1. **\*\*Tailwind Configuration\*\***: Run `` npx tailwindcss init -p`` after installation.
2. **\*\*Environment Variables\*\***:
  - Frontend: Use ``VITE_`` prefix (e.g., ``VITE_API_URL``).
  - Backend: Use ``dotenv`` for ``.env`` files.
3. **\*\*TypeScript\*\***: Ensure ``tsconfig.json`` is configured for both frontend and backend.

Let me know if you need help structuring the project or debugging installations!