

Deploying a **React.js** project on **GitHub Pages** is a straightforward process. Below are step-by-step instructions for deploying your React app (created with Create React App) to GitHub.

□ Prerequisites

1. Node.js and npm installed.
 2. A React project created with `create-react-app`.
 3. A GitHub account and a repository created for your project.
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□ Step-by-Step Guide to Deploy React App to GitHub Pages

1. Install GitHub Pages package

Navigate to your project directory and run:

```
npm install gh-pages --save-dev
```

2. Update `package.json`

a. Add the `homepage` field at the top level of your `package.json`:

```
"homepage": "https://<your-username>.github.io/<your-repo-name>"
```

Replace:

- `<your-username>` → your GitHub username
- `<your-repo-name>` → name of your GitHub repo

Example:

```
"homepage": "https://johndoe.github.io/my-react-app"
```

b. Add deployment scripts in the `scripts` section:

```
"predeploy": "npm run build",  
"deploy": "gh-pages -d build"
```

Your `scripts` section will now look something like:

```
"scripts": {  
  "start": "react-scripts start",  
  "build": "react-scripts build",  
  "test": "react-scripts test",  
  "eject": "react-scripts eject",  
  "predeploy": "npm run build",  
  "deploy": "gh-pages -d build"  
}
```

3. Initialize Git (if not already)

```
git init  
git remote add origin https://github.com/<your-username>/<your-repo-  
name>.git  
git add .  
git commit -m "Initial commit"  
git push -u origin main
```

(Use `master` instead of `main` if your repo uses that.)

4. Deploy the App

Run:

```
npm run deploy
```

This will:

- Build the React app.
 - Push the `build/` folder to the `gh-pages` branch of your repo.
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5. Verify Deployment

Go to:

```
https://<your-username>.github.io/<your-repo-name>/
```

Your app should be live!