

## How to deploy using github pages

### For React app created using create-react-app

**Step one** : install gh-pages package using your terminal , make sure you are on the right directory of your project

- `npm i -D gh-pages`

**Step two**: Include the homepage on your package.json

```
"homepage": "https://{github user name}.github.io/{repo name}",
```

**Step three** : add the following script on the script section of the package.json after start and before build

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

**Step four** : initialize git

- `git init`
- `git add .`
- `git commit -M "your comments or reminder here"`
- `git branch -M main`
- `git remote add origin "link to your github link"`
- `git push -u origin main`

step five : run the following command for deployment

- `npm run deploy`

### For React app created using vite

- **Step one** : install gh-pages package using your terminal , make sure you are on the right directory of your project

- `npm i -D gh-pages`

- **Step two**: Include the homepage on your package.json

```
"homepage": "https://{github user name}.github.io/{repo name}",
```

- **Step three** : add the following script on the script section of the package.json after start and before build

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

- **Step four** : make the following changes in your vite.config.js file

```
export default defineConfig({  
  base: './{repo name}',  
  plugins: [react()],  
})
```

- **Step five**: initialize git

- `git init`
  - `git add .`
  - `git commit -M "your comments or reminder here"`
  - `git branch -M main`
  - `git remote add origin "link to your github link"`
  - `git push -u origin main`
  
  - step five : run the following command for deployment
  - `npm run deploy`
- 

For successful deployment, you will get a success message "Deployed" on your terminal .

Navigate to your github account and click on your repository

Click on "setting" from the left side options

Click on "pages" and you will get the link to your deployed site

Note :

- For redeployment, you can skip the `git init` and `git branch -M main` steps. Instead, you can directly stage your changes using `git add .`, commit them, push to the repository, and then run the `npm run deploy` command.
- Always ensure you are in the correct directory when installing packages.
- In your GitHub repository, under the **Pages** section, you may need to select the `gh-pages` branch and click **Save** in some cases.