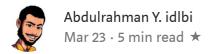
Deploying Your React Website to GitHub Pages



Making React + Dynamic Routing + GitHub Pages Play Nicely.

I had been finalizing my portfolio website over the weekend and wanted to deploy it to GitHub Pages. However, what I thought would be a straightforward task wasn't really that. I built a React app that uses dynamic routing to show different pages with unique links and wanted to host it on GitHub Pages. I faced a few issues and wanted to share the process I followed in one place.

I assume you already have your working React app (as in the one you created using create-react-app) and it's hosted in a repo on GitHub. So let's start.

First, install the gh-pages module in your app directory:

```
$ npm i gh-pages
```

Now, you have to add the deployment configuration. Head to your package.json file to make some edits.

What edits you do next depend on whether you're creating a project website or a user/organization website. You can create as many project sites on GitHub Pages as you wish. Their addresses will have have the format:

https://username.github.io/repository.

On the other hand, you can have only one user website per account, which will have a nicer-looking address: https://username.github.io. You can learn more on GitHub Pages.

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If You're Creating a Project Site

Here's what you have to do inside package.json:

- Add your homepage address (just before dependencies): "homepage": "http://username.github.io/repository"
- Inside scripts, add the commands to create a production build and deploy:

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

The package.json file should look somehow like this. (don't forget to use proper values in place of username and repository!):

```
"name": "YourReactApp",
...
"homepage": "https://username.github.io/repository",
...
"scripts": {
    ...
    "predeploy": "npm run build",
        "deploy": "gh-pages -d build",
    ...
}
```

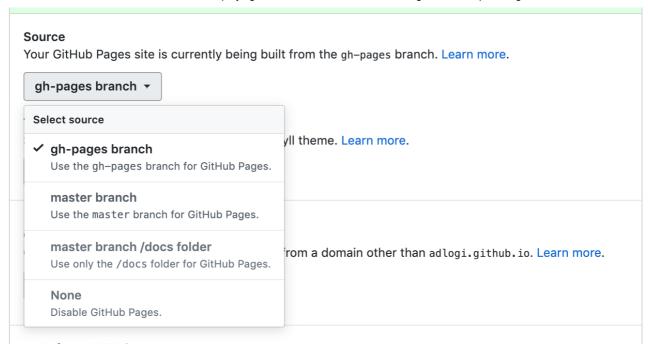
To deploy, all you have to do is running the following command in the terminal:

```
$ npm run deploy
```

We're almost there. If you go to your repo on GitHub, you'll notice a new branch called <code>gh-pages</code> that has been created. This is the branch that will serve your website. From your repo's main page on GitHub, go to **Settings**. You'll find the **GitHub Pages** section near the end of the page. Select the <code>gh-pages</code> branch as the source for your GitHub Pages website.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.



Yay! You can now see your website live! If you're using routing in your app, there's still one more thing to do, so continue reading (you can pass the next section).

If You're Creating a User Site

I started all this because I was creating my portfolio website. As I was about to deploy to GitHub Pages, I thought it would be nicer to use *adlogi.github.io* as an address instead of *adlogi.github.io/portfolio* for example. Creating a user website is not very different from creating a project one. So, here's what you have to do:

You can have only one user site per account, and the repo for that site should have a specific name. Your app repo's name should be <code>username.github.io</code>. If you're already using a different name, don't worry! Navigate to the repo's main page on GitHub and click **Settings**. Then, under the **Repository Name** heading, type the new name: <code>username.github.io</code> (using your own username, of course).

While you're still on the **Settings** page, scroll down towards the bottom of the page to the **GitHub Pages** heading. You'll notice that, unlike project pages, user pages can only be served from the master branch. This requires some changes to our branches and the way we configure the deployment in package.json.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

Your GitHub Pages site is currently being built from the master branch. Learn more.

User pages must be built from the master branch.

First of all, let move what we have on the master branch to a new one. Let's call it source:

```
$ git checkout -b source
$ git push origin source
```

Back on your repo's **Settings** page, click **Branches** from the menu on the left and change the **Default branch** to source and click **Update**.

Next, configure the deployment for a user website in package.json:

- Add your homepage address (just before dependencies): "homepage": "http://username.github.io/"
- Inside scripts, add the commands to create a production build on the master branch and deploy: "predeploy": "npm run build" and "deploy": "gh-pages -b master -d build"

The package.json file should look somehow like this. (don't forget to use your username values in place of username!):

```
"name": "YourReactApp",
...
"homepage": "https://username.github.io/",
...
"scripts": {
...
"predeploy": "npm run build",
"deploy": "gh-pages -b master -d build",
...
}
```

To deploy, all you have to do is running the following command in the terminal:

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\$ npm run deploy

Let's Talk about Routing

I used React Router to make my website look as if it had separate pages with unique addresses. I deployed it as a GitHub user site following the steps explained above and the links seemed to be working fine. I was on one of those pages when I hit refresh, and the page disappeared and a 404 showed instead. Trying to access a page by entering its address directly (instead of navigating starting from the homepage) gave the same result. It seemed that a fresh page load was failing in retrieving the page in production (while it was handled correctly in development).



File not found

The site configured at this address does not contain the requested file.

If this is your site, make sure that the filename case matches the URL. For root URLs (like http://example.com/) you must provide an index.html file.

Read the full documentation for more information about using GitHub Pages.

GitHub Status — @githubstatus



In two simple steps:

- 1. Copy the 404.html file from that repo to your project's /public directory (just next to index.html). There's a variable, segmentCount, that may need to be set in the script inside 404.html. For a GitHub Pages user site, segmentCount = 0 works fine.
- 2. Copy the script found here (lines: 58-88) to the <head> section in /public/index.html.

That should be it. Deploy (\$ npm run deploy) and your links should be working as expected.

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