[Free] Building + Hosting React App For free on Github Pages | Complete React Course in Hindi #17

At this moment, we have created our React application and would like to host our application in Github for free.

You can install [Git](#) and [Github](#) from their official sites, respectively.

Deploying TextUtils

Whenever we create our application for production, we build it using the npm run build command and not by using npm start.

npm run build: npm run build bundles the app into static files for production, i.e. it creates a build folder that contains your application as a static application.

In Build Folder:

If you open your build folder in the live server, you will find that your application is working perfectly, which means our application is being converted into static files for deployment.

Note: React Router doesn't work perfectly with Github pages, so we are going to remove the router from our application. But remember that while deploying in the server, it runs perfectly.

Deploying a Normal Application

For deploying a normal application, you have to just go to the settings section of GitHub and then navigate to the pages tab, where you can select the branch and root of your app and can easily deploy your application. But while hosting a react application, you have to follow a different set of steps, which are mentioned below:

Steps for Hosting our React Application:

1. Add the Home page field:

You can add the homepage field in your application by Copying the below code in your package.json.

```
"homepage": "https://myusername.github.io/my-app",
```

Make sure to enter your username and the correct name of your application in the mentioned places in the above URL.

2. Install gh-pages

Use the below command to install gh-pages in your React app.

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

3. Add the script in "package.json"

Add the below code in the script (available in "package.json") of your React application.

```
"predeploy": "npm run build",
"deploy": "gh-pages -d build",
```
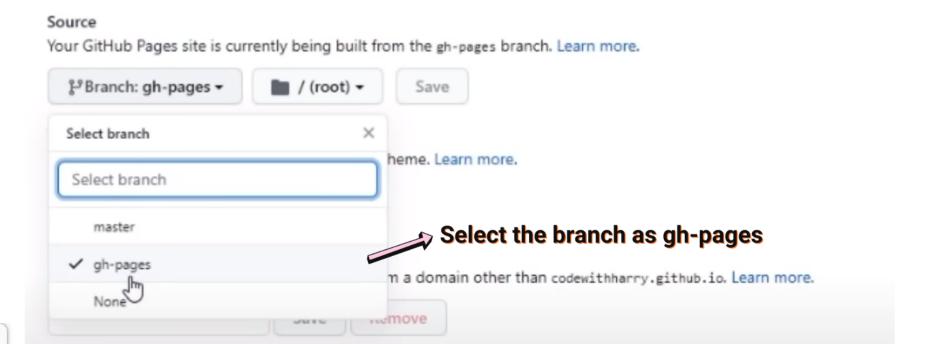
4. Run the npm run deploy

Using the npm run deploy command in your terminal will begin the publishing process.
After a certain time, the Github login dialog box appears. Enter your GitHub username and password and login into your account.

Hence our application has been hosted on Github.

If you are facing any problem, then check out the pages section available in settings, and make sure to select the branch as gh-pages as shown below:

Our TextUtils application:

If you would like to check our application, then click here.

In a nutshell:

Here is the short summary of the four steps, which are required for deploying your application in Github:

```
ackage.json > ...
{
    "homepage": "https://codewithharry.github.io/TextUtils-React",
    "name": "textutils",
    "version": "0.1.0",
    "private": true,
    "dependencies": {
        "@testing-library/jest-dom": "^5.14.1",
        "@testing-library/react": "^11.2.7",
        "@testing-library/user-event": "^12.8.3",
        "react": "^17.0.2",
        "react-dom": "^17.0.2",
        "react-router-dom": "^5.2.0",
        "react-scripts": "4.0.3",
        "web-vitals": "^1.1.2"
    },
    ▷ Debug
    "scripts": {
        "predeploy": "npm run build",
        "deploy": "gh-pages -d build",
        "start": "react-scripts start".
```

Step 1: Adding the Homepage field

Step 4: Run the npm run deploy

Step 3: Add the script in the package.json

Step 2: Install gh-pages

```
TERMINAL    PROBLEMS    OUTPUT    DEBUG CONSOLE

PS D:\MyData\Business\code playground\React Course\textutils> npm install --save gh-pages
es
[.................] / rollbackFailedOptional: verb npm-session 76dd1032cf093cdf
                    Ln 5, Col 19    Spaces: 2    UTF-8    CRLF    JSON    ⊗ Go Live
```

Figure 1.2: Hosting the application in Github