Git hub: Creating branch for a repository.

## Steps:

* Get the access token
* We need to get the sha code of branch, from which we create a new branch by referring to that
* Get sha code for an existing branch, if no branches are available take sha code from master
* Create branch

## Get access token

GitHub -> Settings -> Developer Settings

## Get sha code

Make get request, response will be the list of branches with their sha hash code.

**Format:**

https://api.github.com/repos/<Author>/<Your Repository Name>/git/refs/heads

**Example:**

https://api.github.com/repos/DileepKumar687/DemoForTest/git/refs/heads

**Response**

[

{

"ref": "refs/heads/For-dileep-test",

"node\_id": "MDM6UmVmMzAzOTY5MTYxOnJlZnMvaGVhZHMvRm9yLWRpbGVlcC10ZXN0",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/refs/heads/For-dileep-test",

"object": {

"sha": "3b095eca5834a062bfb334dc6c51a3c03fe501d4",

"type": "commit",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/commits/3b095eca5834a062bfb334dc6c51a3c03fe501d4"

}

},

{

"ref": "refs/heads/master",

"node\_id": "MDM6UmVmMzAzOTY5MTYxOnJlZnMvaGVhZHMvbWFzdGVy",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/refs/heads/master",

"object": {

"sha": "17b8e05ed265659f9c633cddf9dd35f0681dfa74",

"type": "commit",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/commits/17b8e05ed265659f9c633cddf9dd35f0681dfa74"

}

}

]

Copy the sha code of a branch from which a new branch will be created.

Let's take branch “For-dileep-test" as a reference, Sha code: 3b095eca5834a062bfb334dc6c51a3c03fe501d4

## Create a new branch

**Format:**

[**https://api.github.com/repos/<AUTHOR>/<REPO>/git/refs**](https://api.github.com/repos/<AUTHOR>/<REPO>/git/refs) with the following as the POST body :

{

"ref": "refs/heads/<NEW-BRANCH-NAME>",

"sha": "<HASH-TO-BRANCH-FROM>"

}

**Example:**

<https://api.github.com/repos/DileepKumar687/DemoForTest/git/refs>

Body

{

"ref": "refs/heads/myNewBranchName",

"sha": "3b095eca5834a062bfb334dc6c51a3c03fe501d4"

}

**Response:**

{

"ref": "refs/heads/myNewBranchName",

"node\_id": "MDM6UmVmMzAzOTY5MTYxOnJlZnMvaGVhZHMvZGlsZWVwMg==",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/refs/heads/myNewBranchName",

"object": {

"sha": "3b095eca5834a062bfb334dc6c51a3c03fe501d4",

"type": "commit",

"url": "https://api.github.com/repos/DileepKumar687/DemoForTest/git/commits/3b095eca5834a062bfb334dc6c51a3c03fe501d4"

}

}