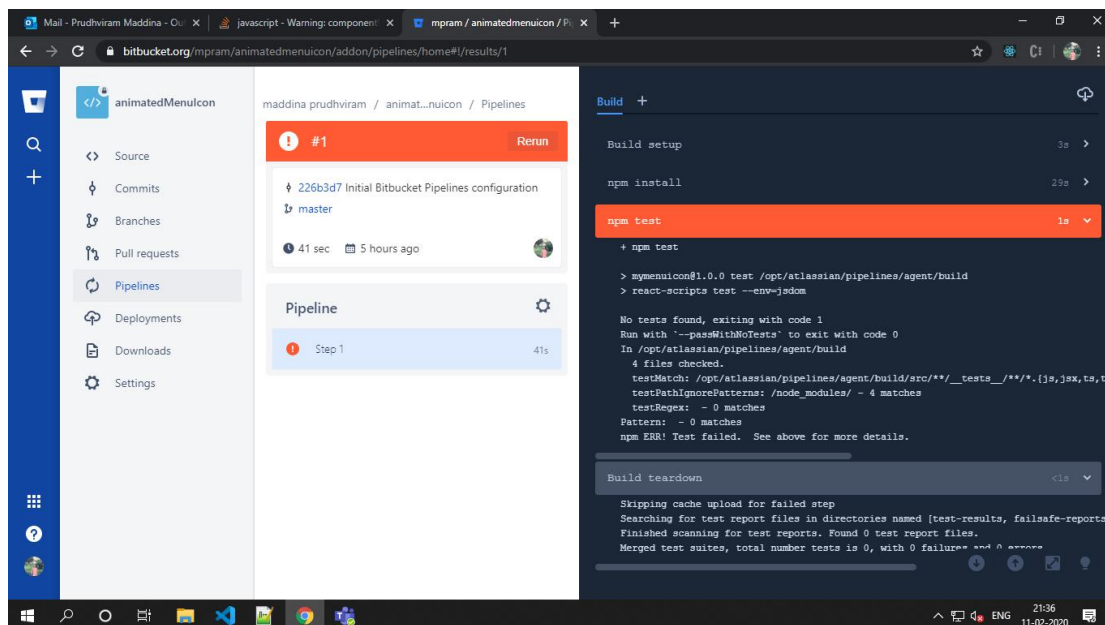


React Test-case for pipelines & bitbucket - github code sharing.

1. First uploaded a sample (<https://codesandbox.io/s/mymenuicon-4nw.jz>) project into bitbucket and github separately.
2. After Uploading sample project, I ran pipeline test for the project in bitbucket.
3. Since it dont have any react- test cases it failed(ScreenShot -1), In npm install pipeline test there are few warnings that need to be fixed along with failed test case since the sample project dont have any react-test cases written.



4. For fixing warnings in npm install I ran ***npm audit fix*** command in source code path
5. For fixing react-test case I have installed [jest@24.9.0](#) with `npm install --save-dev jest@24.9.0` in package.json, It will come by default if you run ***npx create-react-app command***.
6. After installing jest, we should create a sample mock test file with ***.test*** added to file for Example if file name is ***Index.js*** create mock for it like ***Index.test.js*** and write mock cases in that.

7. Mock cases should be like but not limited to:

```
test('object assignment', () => {  
  const data = {one: 1};  
  data['two'] = 2;  
  expect(data).toEqual({one: 1, two: 2});  
});
```

8. Usually test cases for whole app build test will be like:

```
import React from 'react';  
import ReactDOM from 'react-dom';  
import App from './App.js';  
  
test('App test case: renders without crashing', () => {  
  const div = document.createElement('div');  
  ReactDOM.render(<App />, div);  
  ReactDOM.unmountComponentAtNode(div);  
});
```

9. For BitBucket pipeline test code bitbucket-pipeline.yaml file included and the code in bitbucket-pipeline.yaml file is(ss-2):

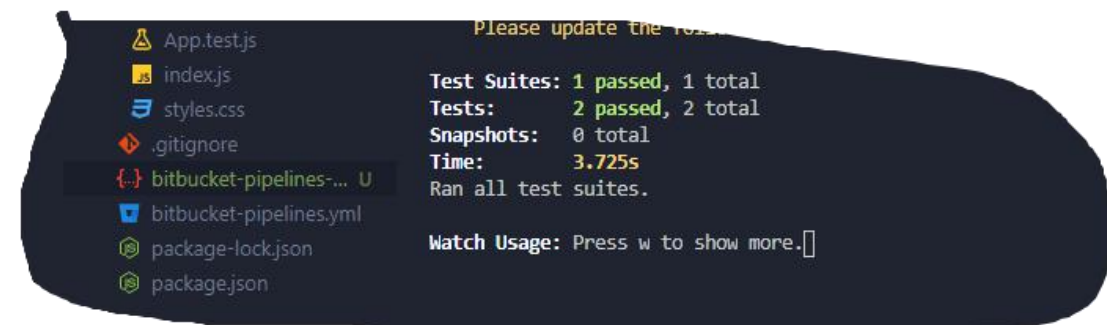
```
bitbucket-pipelines.yml  
1  # This is a sample build configuration for JavaScript.  
2  # Check our guides at https://confluence.atlassian.com/x/14UWN for more examples.  
3  # Only use spaces to indent your .yaml configuration.  
4  # ----  
5  # You can specify a custom docker image from Docker Hub as your build environment.  
6  image: node:10.15.3  
7  
8  pipelines:  
9    default:  
10     - step:  
11       caches:  
12         - node  
13       script: # Modify the commands below to build your repository.  
14         - npm install  
15         - npm test  
16
```

10. After testcases written, configure package.json with the following code & updated code with testcases and pipeline in sample repository in sandbox link.

(<https://codesandbox.io/s/github/maddinaprudhvi/animatedMenuIcon>)

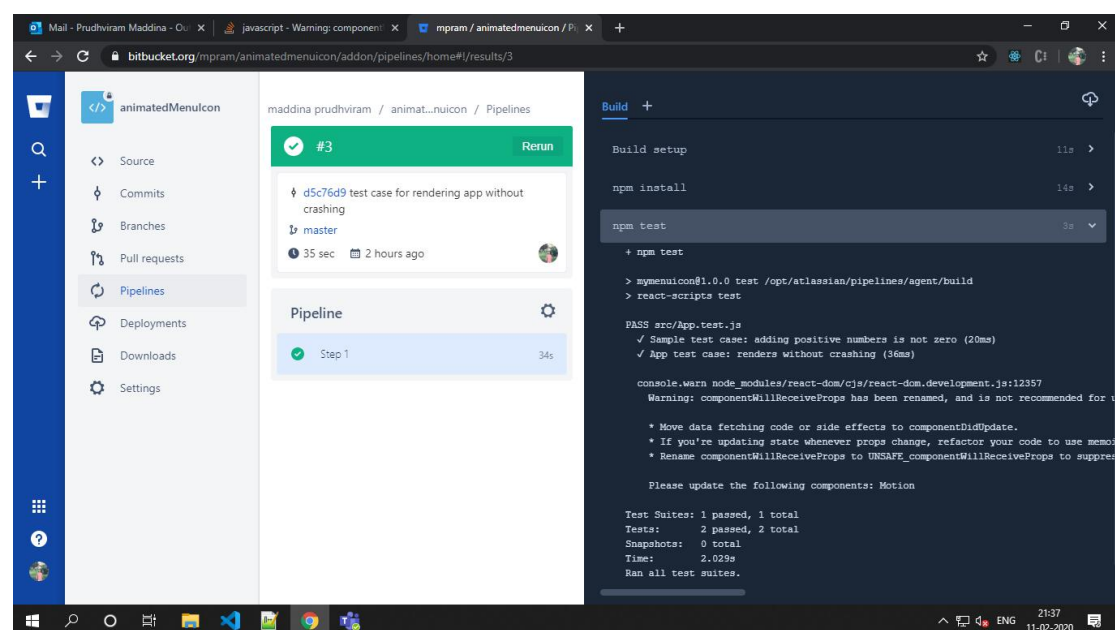
```
"devDependencies": {
  "jest": "24.9.0"
},
"scripts": {
  "test": "react-scripts test",
}
```

11. Run **npm run test** in terminal to see whether test cases failing or not, If passed you will get something like this in screen :



A terminal window showing the results of running 'npm test'. On the left, a file explorer lists 'App.test.js', 'index.js', 'styles.css', '.gitignore', 'bitbucket-pipelines-...', 'bitbucket-pipelines.yml', 'package-lock.json', and 'package.json'. The terminal output shows: 'Test Suites: 1 passed, 1 total', 'Tests: 2 passed, 2 total', 'Snapshots: 0 total', 'Time: 3.725s', and 'Ran all test suites.' Below this, it says 'Watch Usage: Press w to show more.'

12. After tests are passed commit it to the repository and pipeline tests will be triggered each time you commit into repository .



A screenshot of the Bitbucket Pipelines web interface. The left sidebar shows navigation options: Source, Commits, Branches, Pull requests, Pipelines (selected), Deployments, Downloads, and Settings. The main area shows a pipeline for 'maddina prudhviram / animat...nuicon / Pipelines'. A green checkmark indicates the pipeline is successful. Below this, a 'Pipeline' section shows 'Step 1' completed in 34s. On the right, a 'Build' section shows the execution of 'npm test' with a success status. The terminal output for 'npm test' is visible, showing 'PASS src/App.test.js' and 'Test Suites: 1 passed, 1 total'.

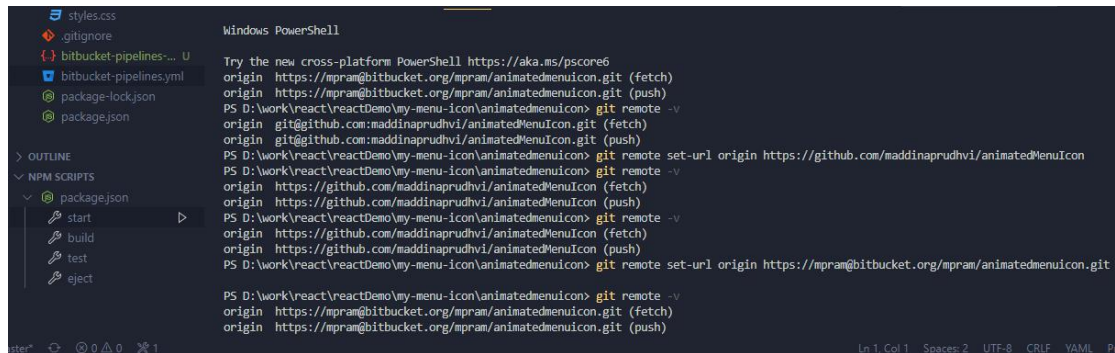
13. Now the code in BitBucket repository is different from that of code in GitHub,

Rather than adding repository manually there is something like

git remote set-url origin <your Url> to change url of your working repository

and ***git remote -v*** for checking current url origin and after shifting url pull and

push, your code will be updated in GitHub too. Here ss of url shifting :



```
Windows PowerShell

Try the new cross-platform PowerShell https://aka.ms/pscore6

origin https://mpram@bitbucket.org/mpram/animatedmenuicon.git (fetch)
origin https://mpram@bitbucket.org/mpram/animatedmenuicon.git (push)
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote -v
origin git@github.com:maddinaprudhvi/animatedMenuIcon.git (fetch)
origin git@github.com:maddinaprudhvi/animatedMenuIcon.git (push)
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote set-url origin https://github.com/maddinaprudhvi/animatedMenuIcon
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote -v
origin https://github.com/maddinaprudhvi/animatedMenuIcon (fetch)
origin https://github.com/maddinaprudhvi/animatedMenuIcon (push)
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote -v
origin https://github.com/maddinaprudhvi/animatedMenuIcon (fetch)
origin https://github.com/maddinaprudhvi/animatedMenuIcon (push)
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote set-url origin https://mpram@bitbucket.org/mpram/animatedmenuicon.git
PS D:\work\react\reactDemo\my-menu-icon\animatedmenuicon> git remote -v
origin https://mpram@bitbucket.org/mpram/animatedmenuicon.git (fetch)
origin https://mpram@bitbucket.org/mpram/animatedmenuicon.git (push)
```

14. Now code will be in sync with both GitHub and BitBucket and if you wish to

remove your code from local use command like

git remote rm <destination/path> and ***git remote rm*** does not delete the

remote repository from the server. It simply removes the remote and its

references from your local repository.