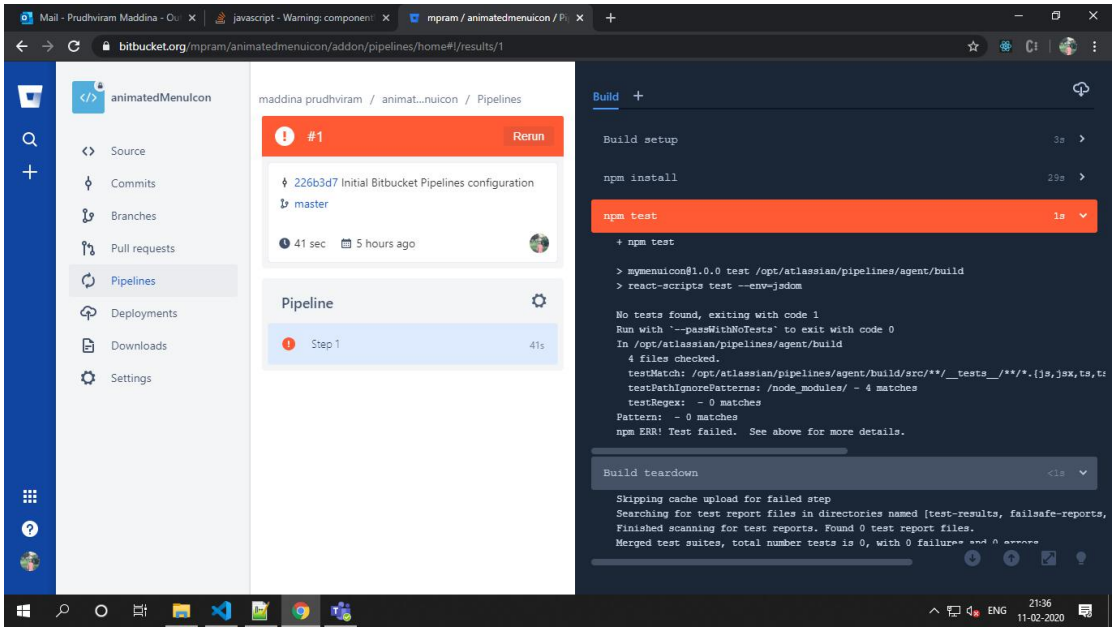
React Test-case for pipelines & bitbucket - github code sharing.

1. First uploaded a sample (https://codesandbox.io/s/mymenuicon-4nwjz) 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 I***ndex.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):

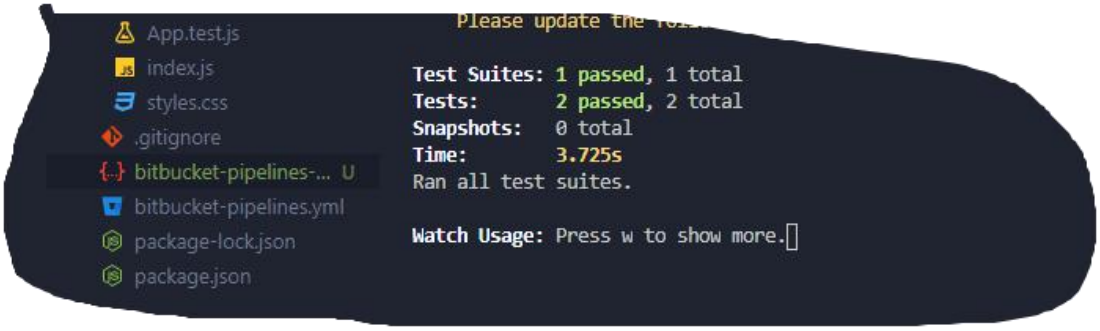
bitbucket-pipelines.yml

```
# This is a sample build configuration for JavaScript.
# Check our guides at https://confluence.atlassian.com/x/14UWN for more examples.
# Only use spaces to indent your .yml configuration.
# -----
# You can specify a custom docker image from Docker Hub as your build environment.
image: node:10.15.3

pipelines:
  default:
    - step:
        caches:
          - node
        script: # Modify the commands below to build your repository.
          - npm install
          - npm test

```

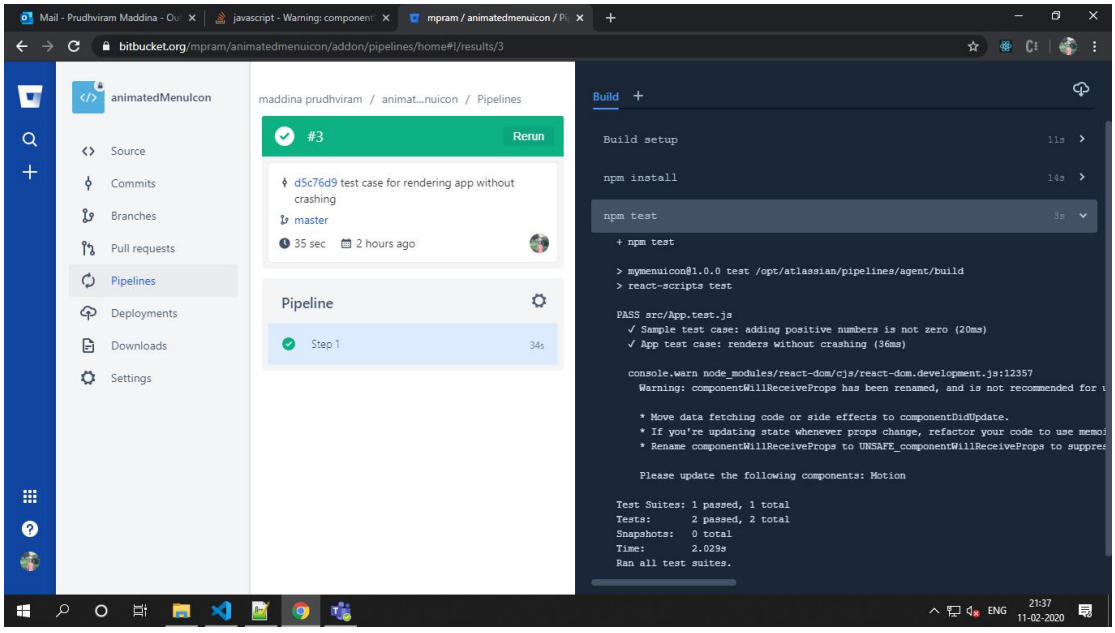
10. After testcases written, configure package.json with the following code & updated code with testcases and pipeline in sample repository in sandbox link. (https://codesandbox.io/s/github/maddinaprudhvi/animatedMenuIcon)

```
  "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 :

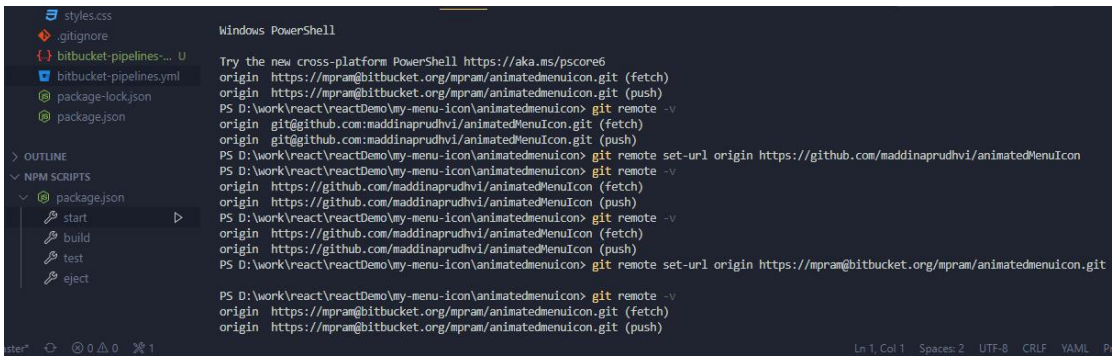


12. After tests are passed commit it to the repository and pipeline tests will be triggered each time you commit into repository .



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 :



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.