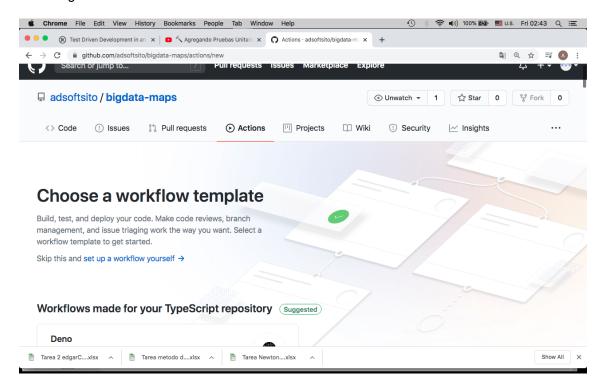
Test Driven Development & Continuous Integration

```
1.- Install nodejs <a href="https://nodejs.org/es/download/releases/">https://nodejs.org/es/download/releases/</a>
 $ node --version
 $ npm --version
2.- Install react
 $ npm install -g create-react-app
3.- create app
 $ npx create-react-app react-demo
 $ cd react-demo
4.- Test app
$ npm start
$ ng run build
$ ng test
4.- Create a repository <a href="https://github.com">https://github.com</a> (react-demo), configure repository
$ git init
$ git remote add origin <url>
4.- Edit README.md, add # v0.1 tag
$ vi README.md
React Demo
# v0.1 tag
:wq
5.- Commit, push changes
$ git commit -m "update README maps with v0.1 tag"
$ git push –u origin master
6.- Tag base code with v0.1
$ git tag -a v0.1 -m "my maps version 0.1"
$ git tag
$ git show v0.1
```

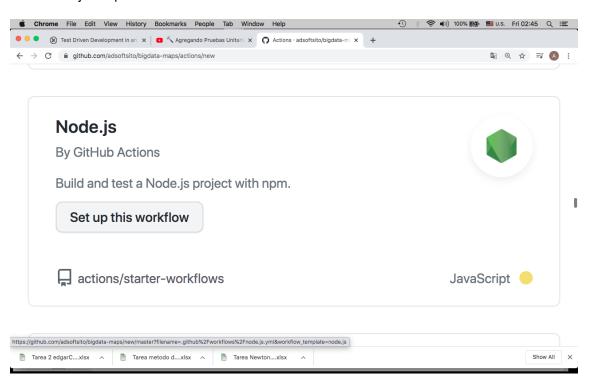
7.- Publish tag

\$ git push origin v0.1

9.- Configure CI in Github Actions



Select nodejs template



```
Edit nodejs template:
```

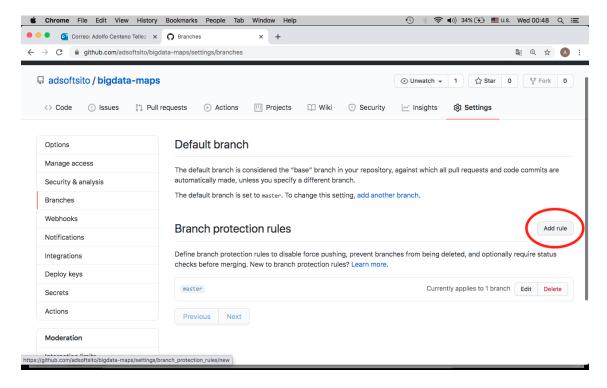
```
name:
Node.j
s CI
          on:
            push:
              branches: [ master, hotfixes, release, develop
            pull_request:
              branches: [ master, hotfixes, release, develop
          jobs:
            build:
              runs-on: ubuntu-latest
              strategy:
                matrix:
                  node-version: [10.x]
              steps:
              - uses: actions/checkout@v2
               - name: Use Node.js ${{ matrix.node-version }}
                uses: actions/setup-node@v1
                  node-version: ${{ matrix.node-version }}
              - run: npm ci
              - run: npm run test
              - run: npm run build --if-present
8.- create branch hotfixes, release and develop
$ git checkout master
$ git branch hotfixes
$ git checkout hotfixes
$ vi HOTFIXES.md
# hotfixes maps here
:wq
$ git add .
$ git commit -m "init hotfixes branch"
$ git push -u origin hotfixes
$ git checkout master
$ git branch release
$ git checkout release
$ vi RELEASE.md
# release maps here
:wq
$ git add .
$ git commit -a -m "init release branch"
$ git push -u origin release
```

\$ git checkout master \$ git branch develop \$ git checkout develop \$ vi DEVELOP.md # develop maps here :wq

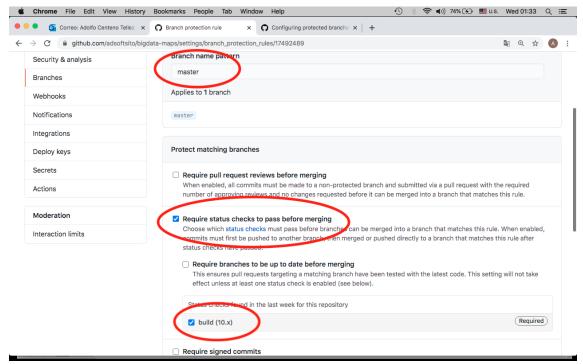
\$ git add .

\$ git commit -a -m "init develop branch" \$ git push -u origin develop

10.- Configure branchs protection



- Create master rule



- Repeat for hotfixes, release and develop branch

