

# JAVASCRIPT MOBILE TESTING AND CI IN THE CLOUD

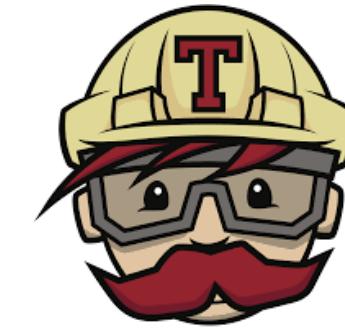
## ABOUT ME:



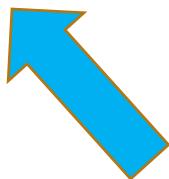
- **Dimitar Todorov**
- Work at  **Progress®**
- Senior QA Automation Engineer
- NativeScript Team
- 7 years of experience in test automation
- ISTQB certified professional
- Proud to be on stage @ JsMobileConf

# AGENDA

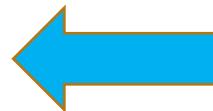
- NativeScript
- Appium
  - Nativescript-dev-appium plugin
- Travis CI and GitHub
  - CI process, github integration
- SauceLab
  - Test execution
  - Reports and results



Travis CI



SAUCE LABS



appium

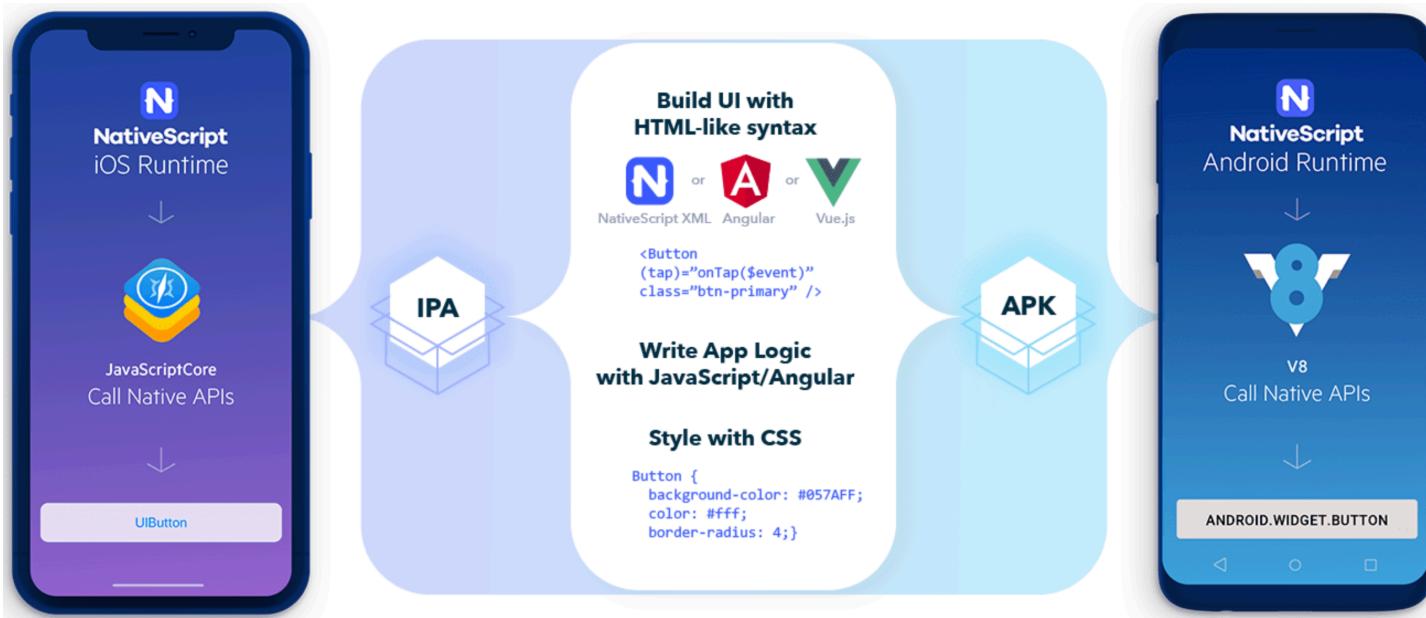


## NATIVESCRIPT

- Open source framework for building truly native mobile apps with Angular, Vue.js, TypeScript, or JavaScript.
- Easy to learn
- Use the web skills you already have, to develop truly native apps with JavaScript, CSS, and Native UI markup.
- Free and Open Source
- <https://nativescript.org>



# HOW IT WORKS



## RICH PLUGIN ECOSYSTEM

- Marketplace for plugins, sample apps and templates
  - <https://market.nativescript.org>
- Playground where you can enjoy NativeScript without any local setup
  - <https://play.nativescript.org>
  - Interactive tutorials



NativeScript

# PLAYGROUND

The screenshot shows the NativeScript Playground interface. At the top, there's a navigation bar with 'Playground' and 'Editor' tabs, and a 'Get started' button. Below the navigation bar is a toolbar with 'New', 'QR code', 'Save', 'Fork', and 'Download' buttons, along with a 'Preview' button.

The main area has three panels:

- Explorer:** Shows the project structure with files like app-routing.module.ts, app.component.html, app.component.ts, app.css, app.module.ts, home-routing.module.ts, home.component.css, home.component.html, home.component.ts, home.module.ts, and main.ts.
- Code Editor:** Displays the content of home.component.html. The code includes anActionBar, a GridLayout containing a ScrollView with a StackLayout, and several Labels with placeholder text.
- Components:** A sidebar listing various UI components under 'ESSENTIALS': Button, Label, Image, Slider, Switch, Text View, List View, Progress, and Activity Indicator.

At the bottom, there's a 'Devices' tab in a panel showing a table with columns for Device Name, Model, OS version, Preview app version, and Runtime version. The table currently has no data.

To the right of the code editor, there's a sidebar with a message about interactive tutorials and two tutorial sections: 'TUTORIAL 1 Getting Started' and 'TUTORIAL 2 Build a Full App'. At the bottom right of this sidebar is a 'No, thanks' button.



NativeScript

# MARKETPLACE

 NativeScript | Marketplace

Authors | Privacy | NativeScript.org

Plugins Templates Samples

SUBMIT SAMPLE

Search for samples

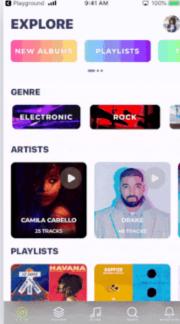
FRAMEWORKS All Angular Vue Core

CATEGORIES All Layouts & Pages Forms & Data Interaction Animations Media



**Building a Good-Looking Login Form**  
by TJ VanToll     
A good looking login/registration experience is a must have for any app. Here is a simple yet elegant looking login form example.

PLAYGROUND DEMO



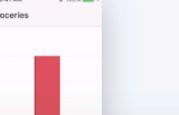
**Music Streaming App**  
by Yassine Zanina    
This sample app contains an amazing design for to help bootstrap the next great music streaming app.

PLAYGROUND DEMO



**FALCON 9**  
Falcon 9 is the first orbital class rocket to be re-used after flight. SpaceX believes this is a major technological breakthrough needed to reduce the cost of access to space and enable people to live on other planets. Falcon 9 will be the first orbital rocket designed and manufactured from the ground up for maximum reliability.

PLAYGROUND DEMO



**Groceries**

PLAYGROUND DEMO



**My Favorite Cities**

Banff, AB  
Barrow, AK  
San Diego, CA



APPIUM AND  
NATIVESCRIPT



## APPIUM AND NATIVESCRIPT

- Appium is an open source test automation framework for use with native, hybrid and mobile web apps.
- It drives iOS, Android, and Windows apps using the WebDriver protocol.
- Integration with SauceLabs

## NATIVESCRIPT-DEV-APPIUM

- nativescript-dev-appium - plugin that helps writing e2e automated Appium tests with TypeScript.
- Developed by the QAs of NativeScript team.
- Allows running tests with javascript frameworks like mocha and jasmine
- Write test using JavaScript or TypeScript, simplified selectors of UI elements, Image comparison

# NATIVESCRIPT-DEV-APPIUM

- Installation

- `npm install nativescript-dev-appium -D`

- Configuration

```
{  
  "sim.iPhoneXR": {  
    "platformName": "iOS",  
    "platformVersion": "12.0",  
    "deviceName": "iPhone XR",  
    "fullReset": true,  
    "app": "path to .ipa package"  
  }  
}
```

```
{  
  "platformName": "Android",  
  "platformVersion": "8.1",  
  "deviceName": "Emulator-Api28-Google",  
  "lt": 60000,  
  "appActivity": "com.tns.NativeScriptActivity",  
  "fullReset": true,  
  "app": "path to .apk package"  
}
```

# NATIVESCRIPT-DEV-APPIUM

Screenshot of a GitHub repository page for `DimitarTodorov / js-mobile-ci`.

The repository has 1 unwatched pull request, 0 stars, and 0 forks.

Branch: master

Commits:

- DimitarTodorov Fix: capabilities for android28 (Latest commit 9bfdd03 23 hours ago)
- ..
- config Fix: capabilities for android28 (23 hours ago)
- sample.e2e.ts Add app and tests (yesterday)
- setup.ts Add app and tests (yesterday)
- tsconfig.json Fix: capabilities for android28 (23 hours ago)



# NATIVESCRIPT-DEV-APPIUM

The screenshot shows a GitHub repository page for `DimitarTodorov / js-mobile-ci`. The file `sample.e2e.ts` is displayed. The code implements end-to-end testing using Mocha and Appium. A blue box highlights the test suite setup, and red arrows point to specific lines with annotations:

- Test suite name:** Points to the first line of the `describe` block.
- Starting webdriver:** Points to the `createDriver` call within the `before` block.
- Log report url:** Points to the `sessionId` log statement at the end of the `after` block.

```
1 import { AppiumDriver, createDriver, SearchOptions, nsCapabilities } from "nativescript-dev-appium";
2 import { isSauceLab, runType } from "nativescript-dev-appium/lib/parser";
3 import { expect } from "chai";
4 import "mocha";
5 const fs = require('fs');
6 const addContext = require('mochawesome/addContext');
7 const rimraf = require('rimraf');

8
9 describe("sample scenario", () => {
10     let driver: AppiumDriver;
11
12     before(async function(){
13         nsCapabilities.testReporter.context = this;
14         driver = await createDriver();
15         driver.defaultWaitTime = 20000;
16         let dir = "mochawesome-report";
17         if (!fs.existsSync(dir)) {
18             fs.mkdirSync(dir);
19         }
20         rimraf('mochawesome-report/*', function () {});
21     });
22
23     after(async function () {
24         if (isSauceLab) {
25             driver.sessionId().then(function (sessionId) {
26                 console.log("Report: https://saucelabs.com/beta/tests/" + sessionId);
27             });
28         }
29         await driver.quit();
30         console.log("Driver successfully quit");
31     });
32 }
```



# NATIVESCRIPT-DEV-APPIUM

```
23     after(async function () {
24         if (isSauceLab) {
25             driver.sessionId().then(function (sessionId) {
26                 console.log("Report: https://saucelabs.com/beta/tests/" + sessionId);
27             });
28         }
29         await driver.quit();
30         console.log("Driver successfully quit");
31     });
32
33     afterEach(async function () {
34         if (this.currentTest.state && this.currentTest.state === "failed") {
35             let png = await driver.logScreenshot(this.currentTest.title);
36             fs.copyFile(png, './mochawesome-report/' + this.currentTest.title + '.png', function (err) {
37                 if (err) {
38                     throw err;
39                 }
40                 console.log('Screenshot saved.');
41             });
42             addContext(this, './' + this.currentTest.title + '.png');
43         }
44     });
45
46     it("should find an element by text", async function () { ← Writing test case
47         const btnTap = await driver.findElementByAutomationText("TAP");
48         await btnTap.click();
49
50         const message = " taps left";
51         const lblMessage = await driver.findElementByText(message, SearchOptions.contains);
52         const text = await lblMessage.text()
53         expect(text).to.equal("41" + message);
54     });
55 }
```



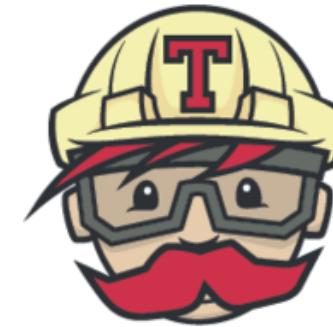
# NATIVESCRIPT-DEV-APPIUM

- Compare screens and images

```
it('compare screen', async () => {
  assert.isTrue(await driver.compareScreen('my-whole-screen'))
})

it('compare button element', async () => {
  const submitBtn = await driver.findElementByAccessibilityId('loginFormSubmit')
  assert.isTrue(await driver.compareElement(submitBtn,'my-submit-btn'))
})
```

- `driver.compareScreen('/path and name of expected image')`



Travis CI

# GITHUB



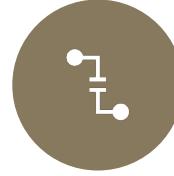
Branch protection



Scheduled builds on  
Master



PR checks



Integration with  
Travis-CI by  
webhooks

# TRAVIS-CI



Continuous  
Integration platform



Automated builds



Testing code  
changes



Deployments and  
notifications

# TRAVIS-CI

## Advantages



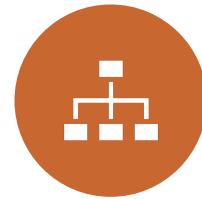
Easy Configuration



Describing stages



Jobs runs in parallel in one stage



Stages run consecutive



Travis CI



# HOW IT WORKS

- <https://travis-ci.org/account/repositories>

Travis CI Dashboard Changelog Documentation Help

MY ACCOUNT  
dtodorov  
@DimitarTodorov

Sync account

#### A SINGLE PLACE FOR ALL YOUR BUILDS

You can now have all your public and private repositories together at travis-ci.com

Sign up for the beta

#### ORGANIZATIONS

Telerik

NativeScript

Telerik AppBuilder

#### MISSING AN ORGANIZATION?

Review and add your authorized organizations.

dtodorov

@DimitarTodorov

Repositories Settings

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

#### Legacy Services Integration

js-mobile

js-mobile-ci



Settings

Travis CI Dashboard Changelog Documentation Help

DimitarTodorov / js-mobile-ci build passing

Current Branches Build History Pull Requests Settings More options

#### General

Build pushed branches [?](#)  Limit concurrent jobs [?](#)

Build pushed pull requests [?](#)

#### Auto Cancellation

Auto Cancellation allows you to only run builds for the latest commits in the queue. This setting can be applied to builds for Branch builds and Pull Request builds separately. Builds will only be canceled if they are waiting to run, allowing for any running jobs to finish.

Auto cancel branch builds  Auto cancel pull request builds

#### Environment Variables

Customize your build using environment variables. For secure tips on generating private keys read our documentation

SAUCE_KEY	.....	Available to all branches	
SAUCE_USER	.....	Available to all branches	

If your secret variable has special characters like `&`, escape them by adding `\` in front of each special character. For example, `ma&w!doc` would be entered as `ma\&\w\!doc`.

NAME	VALUE	BRANCH	DISPLAY VALUE IN BUILD LOG	Add
Name	Value	All branches	<input type="checkbox"/>	

#### Cron Jobs

master	Runs daily	Ran about 2 hours ago	Scheduled in about 2 hours	Always run	
--------	------------	-----------------------	----------------------------	------------	--

# GIT SETTINGS

The screenshot shows the GitHub repository settings page for `DimitarTodorov / js-mobile-ci`. The left sidebar includes links for Options, Collaborators, Branches, Webhooks (which is the active tab), Notifications, Integrations & services, Deploy keys, Secrets, Actions, Moderation, and Interaction limits. The main content area is titled "Webhooks" and contains a brief description: "Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#)". Below this is a list of existing webhooks, with one entry for `https://notify.travis-ci.org/` (create, delete, issue\_comment). There are "Edit" and "Delete" buttons next to the URL.

The screenshot shows the "Manage webhook" configuration page for the same repository. The left sidebar lists Options, Collaborators, Branches, Webhooks (active), Notifications, Integrations & services, Deploy keys, Secrets, Actions, Moderation, and Interaction limits. The main content area has sections for "Payload URL" (set to `https://notify.travis-ci.org/`), "Content type" (set to `application/x-www-form-urlencoded`), and "Secret". Under "SSL verification", there are radio buttons for "Enable SSL verification" (selected) and "Disable (not recommended)". The "Which events would you like to trigger this webhook?" section contains several event checkboxes, with "Branch or tag creation" and "Issue comments" checked. The GitHub logo is visible in the bottom right corner.



# GIT SETTINGS

The screenshot shows the GitHub settings page for the repository 'DimitarTodorov / js-mobile-ci'. The 'Branch protection rule' section is active. On the left, a sidebar lists options like Options, Collaborators, Branches (which is selected), Webhooks, Notifications, Integrations & services, Deploy keys, Secrets, Actions, Moderation, and Interaction limits. The main area displays a 'Branch protection rule' configuration for the 'master' branch. It includes a 'Branch name pattern' field set to 'master', a 'Rule settings' section with 'Protect matching branches' (disabled), and several checkboxes for pull request reviews, status checks, branches being up-to-date, signed commits, and including administrators. A 'Save changes' button is at the bottom.

Search or jump to... Pull requests Issues Marketplace Explore

DimitarTodorov / js-mobile-ci Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 1 Actions Projects 0 Wiki Security Insights Settings

**Branch protection rule**

Branch name pattern  
master

Applies to 1 branch  
master

Rule settings

Protect matching branches  
Disables force-pushes to all matching branches and prevents them from being deleted.

**Require pull request reviews before merging**  
When enabled, all commits must be made to a non-protected branch and submitted via a pull request with the required number of approving reviews and no changes requested before it can be merged into a branch that matches this rule.

**Require status checks to pass before merging**  
Choose which [status checks](#) must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.

**Require branches to be up to date before merging**  
This ensures pull requests targeting a matching branch have been tested with the latest code. This setting will not take effect unless at least one status check is enabled (see below).

Status checks found in the last week for this repository  
 continuous-integration/travis-ci **Required**

**Require signed commits**  
Commits pushed to matching branches must have verified signatures.

**Include administrators**  
Enforce all configured restrictions above for administrators.

Save changes



# .TRAVIS.YML



DimitarTodorov / js-mobile-ci

Unwatch 1 Star 0 Fork 0

Code

Issues 0 Pull requests 1 Actions Projects 0 Wiki Security Insights Settings

Branch: master js-mobile-ci /.travis.yml

Find file Copy path

DimitarTodorov fix: demo app output folder

6e653dd yesterday

1 contributor

73 lines (68 sloc) 2.26 KB

Raw Blame History

```
1 branches:
2   only:
3     - master
4 env:
5   global:
6     - ANDROID_PACKAGE="demo-$TRAVIS_BUILD_ID.apk"
7     - ANDROID_PACKAGE_FOLDER=$TRAVIS_BUILD_DIR/demo/outputs
8     - SAUCE_STORAGE="https://saucelabs.com/rest/v1/storage/$SAUCE_USER"
9     - IOS_PACKAGE="demo-$TRAVIS_BUILD_ID.zip"
10    - IOS_PACKAGE_FOLDER=$TRAVIS_BUILD_DIR/demo/outputs
```



Defining environment variables

```
12 matrix:
13   include:
14     - stage: "Build application packages for iOS and Android"
15       os: osx
16       env:
```

```
17         - Type="iOS Build"
18         osx_image: xcode10.2
19         language: node_js
20         node_js: "10"
21         jdk: oraclejdk8
22         before_script: pod repo update
23         script:
24           - cd ./demo
25           - npm i && tns build ios --copy-to "./outputs/demo.app"
26           - cd $IOS_PACKAGE_FOLDER && zip -r $IOS_PACKAGE demo.app
27           - "curl -u $SAUCE_USER:$SAUCE_KEY -X POST -H 'Content-Type: application/octet-stream' $SAUCE_STORAGE/$IOS_PACKAGE?overw
```



Build mobile app

```
28         - language: android
29         os: linux
30         dist: trusty
31         env:
32           - Type="Android Build"
33           jdk: oraclejdk8
34           before_install: nvm install 10
35           script:
36             - cd ./demo
```



Send package to storage



Travis CI

# .TRAVIS.YML

Search or jump to... Pull requests Issues Marketplace Explore

DimitarTodorov / js-mobile-ci Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 1 Actions Projects 0 Wiki Security Insights Settings

Branch: master js-mobile-ci /.travis.yml Find file Copy path

DimitarTodorov fix: demo app output folder 6e653dd yesterday

1 contributor

73 lines (68 sloc) | 2.26 KB Raw Blame History

```
39 - stage: "Execute UI Tests in SauceLab"
40   env:
41     - Type="Android 28 Tests"
42   language: node_js
43   os: linux
44   node_js: "10"
45   script:
46     - npm i -g appium
47     - npm i && travis_retry npm run e2e -- --runType android28.sauceLab --sauceLab --appPath $ANDROID_PACKAGE
48 - os: linux
49   env:
50     - Type="iOS 12 Tests"
51   language: node_js
52   node_js: "10"
53   script:
54     - npm i -g appium
55     - npm i && travis_retry npm run e2e -- --runType sim.iPhoneX --sauceLab --appPath $IOS_PACKAGE
```

Run tests Job →

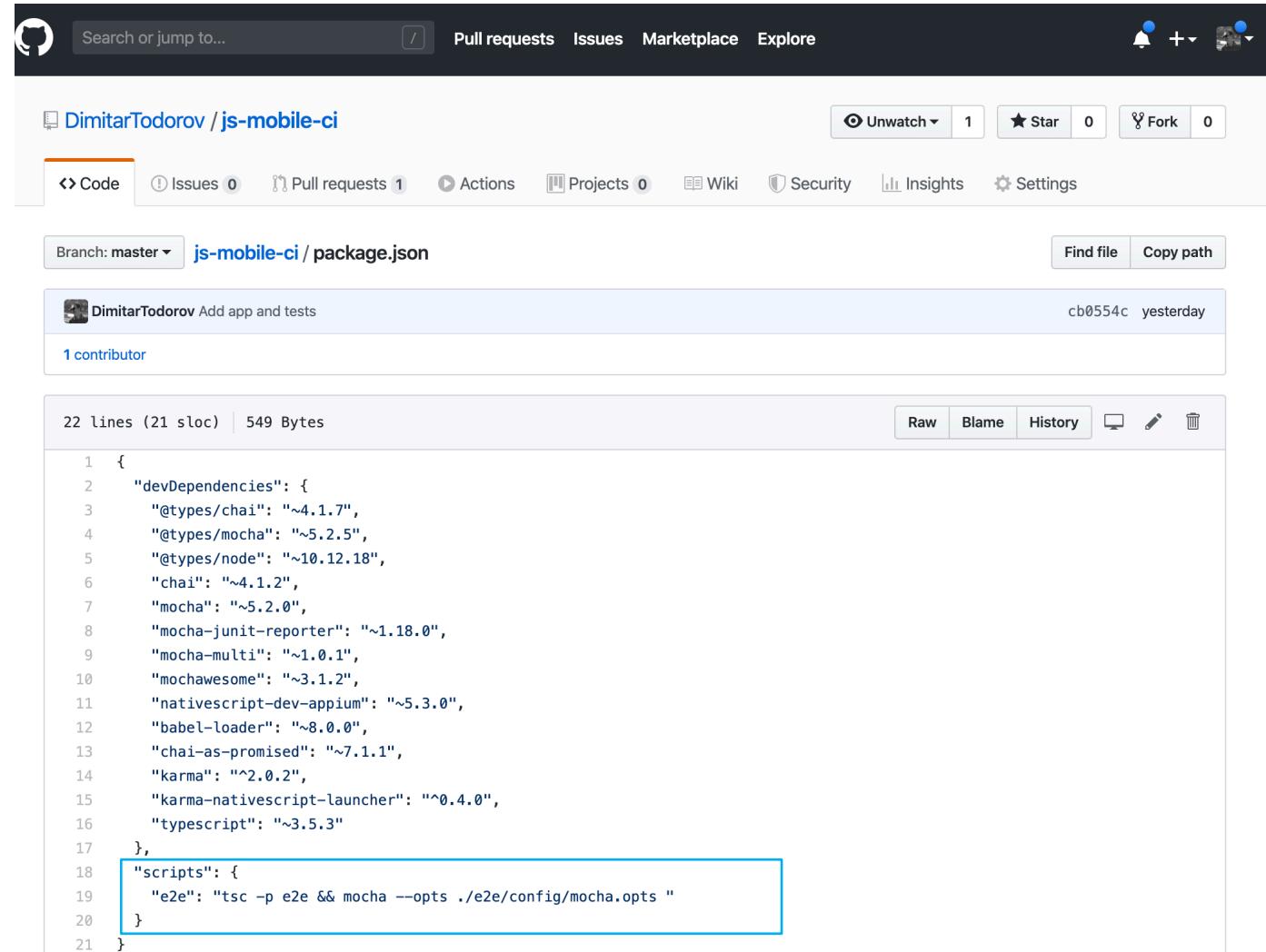
Run tests Job →

UI tests stage



Travis CI

# E2E SCRIPT



The screenshot shows a GitHub repository page for `DimitarTodorov / js-mobile-ci`. The `Code` tab is selected. The `package.json` file is open, showing its contents. A blue box highlights the `e2e` script definition.

```
1  {
2    "devDependencies": {
3      "@types/chai": "~4.1.7",
4      "@types/mocha": "~5.2.5",
5      "@types/node": "~10.12.18",
6      "chai": "~4.1.2",
7      "mocha": "~5.2.0",
8      "mocha-junit-reporter": "~1.18.0",
9      "mocha-multi": "~1.0.1",
10     "mochawesome": "~3.1.2",
11     "nativescript-dev-appium": "~5.3.0",
12     "babel-loader": "~8.0.0",
13     "chai-as-promised": "~7.1.1",
14     "karma": "^2.0.2",
15     "karma-nativescript-launcher": "^0.4.0",
16     "typescript": "~3.5.3"
17   },
18   "scripts": {
19     "e2e": "tsc -p e2e && mocha --opts ./e2e/config/mocha.opts "
20   }
21 }
```



# GIT CHECKS AND TRAVIS BUILDS



<https://github.com/>

DimitarTodorov / js-mobile-ci

Pull requests 1

Issues 0 Actions Projects 0 Wiki Security Insights Settings

Test PR checks #3

Open DimitarTodorov wants to merge 1 commit into master from dtodorov/clean-test-results

Conversation 0 Commits 1 Checks 0 Files changed 1

DimitarTodorov commented 2 hours ago No description provided.

Clean test results from demo folder bb2f30f

Add more commits by pushing to the dtodorov/clean-test-results branch on DimitarTodorov/js-mobile-ci.

All checks have passed 1 successful check

continuous-integration/travis-ci/pr — The Travis CI build passed Required Details

This branch has no conflicts with the base branch Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Write Preview AA B i <> @ ↵

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Close pull request Comment

ProTip! Add comments to specific lines under Files changed.

<https://travis-ci.org/>

Travis CI Dashboard Changelog Documentation Help

DimitarTodorov / js-mobile-ci build passing

Current Branches Build History Pull Requests Build #10

Pull Request #3 Test PR checks #10 passed

Commit e37d041 #3: Test PR checks Branch master dtodorov

Ran for 2 min 42 sec Total time 16 min 25 sec 6 minutes ago

Restart build

Build jobs View config

Build application packages for ios and android 7 min 9 sec

# 10.1 AMD64 Android JDK: oraclejdk8 ... Type="iOS Build" 7 min 9 sec

# 10.2 AMD64 Android JDK: oraclejdk8 Type="Android Build" 4 min 32 sec

Execute ui tests in saucelab 2 min 42 sec

# 10.3 AMD64 Android Node.js: 10 Type="Android 28 Tests" 2 min 2 sec

# 10.4 AMD64 Android Node.js: 10 Type="iOS 12 Tests" 2 min 42 sec



Travis CI

# GIT CHECKS AND TRAVIS BUILDS

<https://github.com/>

DimitarTodorov / js-mobile-ci

Pull requests 1

Actions Projects 0 Wiki Security Insights Settings

Test PR checks #3

Open DimitarTodorov wants to merge 1 commit into master from dtodorov/clean-test-results

Conversation 0 Commits 1 Checks 0 Files changed 1 +0 -9

DimitarTodorov commented 2 hours ago No description provided.

Clean test results from demo folder bb2f30f

Add more commits by pushing to the dtodorov/clean-test-results branch on DimitarTodorov/js-mobile-ci.

All checks have passed 1 successful check

continuous-integration/travis-ci/pr — The Travis CI build passed

This branch has no conflicts with the base branch

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Write Preview AA B i <> @

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Close pull request Comment

ProTip! Add comments to specific lines under [Files changed](#).

<https://travis-ci.org/>

Travis CI Dashboard Changelog Documentation Help

DimitarTodorov / js-mobile-ci build passing

Current Branches Build History Pull Requests Build #10 More options

Pull Request #3 Test PR checks #10 passed

Commit e37d041 #3: Test PR checks Branch master dtodorov

Ran for 2 min 42 sec Total time 16 min 25 sec 7 minutes ago

Build jobs View config

DimitarTodorov/js-mobile-ci:travis.yml@e37d041

```
1 branches:
2   only:
3     - master
4 env:
5   global:
6     - ANDROID_PACKAGE="demo-$TRAVIS_BUILD_ID.apk"
7     - ANDROID_PACKAGE_FOLDER=$TRAVIS_BUILD_DIR/demo/outputs
8     - SAUCE_STORAGE="https://saucelabs.com/rest/v1/storage/$SAUCE_USER"
9     - IOS_PACKAGE="demo-$TRAVIS_BUILD_ID.zip"
10    - IOS_PACKAGE_FOLDER=$TRAVIS_BUILD_DIR/demo/outputs
11
12 matrix:
13   include:
14     - stage: "Build application packages for iOS and Android"
15       os: osx
16       env:
17         - Type="iOS Build"
18         osx_image: xcode10.2
19         language: node_js
20         node_js: "10"
21         jdk: oraclejdk8
22         before_script: pod repo update
23         script:
24           - cd ./demo
25           - npm i && tns build ios --copy-to "./outputs/demo.app"
26           - cd $IOS_PACKAGE_FOLDER && zip -r $IOS_PACKAGE demo.app
27           - "curl -u $SAUCE_USER:$SAUCE_KEY -X POST -H 'Content-Type: application/octet-stream' $SAUCE_STORAGE/$IOS_PACKAGE?overwrite=true --data-binary @$IOS_PACKAGE_FOLDER/$IOS_PACKAGE"
```

# BUILD HISTORY

Travis CI  Dashboard Changelog Documentation Help 

## DimitarTodorov / js-mobile-ci build passing

Current Branches **Build History** Pull Requests More options 

Branch	Event	Status	Time	Commit
✓ master GitHub	Merge pull request #2 from DimitarTodorov	 #9 passed	⌚ 25 min 50 sec	
✓ master dtodorov	Merge pull request #2 from DimitarTodorov/dtodorov	 #7 passed	⌚ 16 min 49 sec	
✗ master dtodorov	Add app and tests	 #1 failed	⌚ 34 min 34 sec	



Travis CI



**SAUCE LABS**

# SAUCELABS



Cloud platform for automated web testing and mobile testing



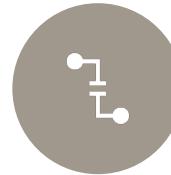
Provides machines and simulators in the cloud



Real device testing



Cross browser testing



Integration with Appium

# USER SETTINGS

**SAUCELABS**

Dashboard Live Testing Tunnels Archives

1 / 10 concurrent sessions

My Account

User Concurrency: 10

User Information

FIRST NAME: Dimitar

LAST NAME: Todorov

EMAIL ADDRESS: [REDACTED]

USER NAME: [REDACTED]

UPDATE

Access Key

Access Key: [REDACTED]

REGENERATE ACCESS KEY

Warning: Regenerating your access key will require update your access key value throughout your configuration. Commands containing your old access key will fail.

Change Password

NEW PASSWORD: [REDACTED]

VERIFY PASSWORD: [REDACTED]

UPDATE

Email Settings

SEND ME MARKETING & PRODUCT UPDATE EMAILS

SEND ME ACCOUNT & BILLING UPDATE EMAILS

DO NOT SEND ME ANY EMAILS

Access Real Devices Automation Help Dimitar Todorov US West 1



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# DASHBOARD

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Dashboard Live Testing Tunnels Archives

0 / 10 concurrent sessions

AUTOMATED BUILDSS AUTOMATED TESTS LIVE TESTS

SHOWING: My Tests (DimitarTodorov) Status

Organizing by builds is a snap

Simply provide the build key with the value of your build's unique identifier.

"build": "build-1234"

Learn more about annotating tests

**SAUCELABS**

Access Real Devices Automation Help Dimitar Todorov US West 1

Dashboard Live Testing Tunnels Archives

0 / 10 concurrent sessions

AUTOMATED BUILDSS AUTOMATED TESTS LIVE TESTS

SHOWING: My Tests (DimitarTodorov) Passed, Complete

Thursday, Jul 18th

Job ID	Started	Device	Status	Duration
Unnamed job e2f87e317b604f0693ddfccfa394795e	about 1 hour ago	⚡ 7.0	Complete	ran for 42s
Unnamed job 5d8b4340d4d142299da2c9f038f3dcc0	about 1 hour ago	⚡ 12.0	Complete	ran for 58s
Unnamed job fb38da117a8a4df8be0dfc08800f483f	about 1 hour ago	⚡ 7.0	Complete	ran for 49s
Unnamed job 0efc84d935d249a9885b3004656bde5a	about 1 hour ago	⚡ 12.0	Complete	ran for 1m 3s
Unnamed job 9af48990649641bf824bc4136e173f14	about 1 hour ago	⚡ 7.0	Complete	ran for 39s
Unnamed job a37ab0136ac14d00ad04bc9ff6ed1743	about 1 hour ago	⚡ 12.0	Complete	ran for 1m 26s



SAUCE LABS

# SAUCE STORAGE

- **Uploading app packages via REST API request**
  - ```
curl -u <sauce_username>:<sauce_access_key>
-X POST -H "Content-Type: application/octet-stream"
https://saucelabs.com/rest/v1/storage/<sauce_username>/<upload_filename>?overwrite=true
--data-binary @<path/to/your_file_name>
```
- **Access app packages**
  - `caps.setCapability("app","sauce-storage:myapp.zip");`
- **Alternative storage**
  - Other accessible locations could include Dropbox, AWS, or any other file storage service. As with the Sauce Storage location, you need to specify the path to your application with the app capability: `caps.setCapability("app","http://mycorp.intranet/myapp.apk");`



SAUCE LABS

# RESULTS AND REPORTS

- SauceLabs report url printed in the console after test run
- Video record of the test execution
- Command steps
- Logs of each command

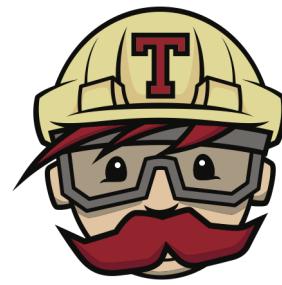
The screenshot displays the SauceLabs web interface. On the left, there's a sidebar with options like Dashboard, Live Testing (selected), Tunnels, and Archives. A red circular icon indicates 10 concurrent sessions. The main area shows a screenshot of an iPhone X simulator running an app named "My App". The app has a button labeled "Tap" and a text field showing "42 taps left". Above the screenshot, the job details are listed: "Unnamed job 078605ddcc9342e18e9bbdf81700c8b1", "07/09/19 at 03:15PM", "1m 1s", "msc 10.13", "iPhone 12.0", and "Owner: dimitar.todorov". To the right, a detailed log of commands is shown:

| COMMAND                                                  | TIME     | DETAILS |
|----------------------------------------------------------|----------|---------|
| POST /session                                            | 00:06:39 |         |
| FIND elements                                            | 00:39:70 |         |
| FIND elements                                            | 00:40:54 |         |
| CLICK element/1E000000-0000-0000-9B19-000000000000/click | 00:41:76 | +0.45   |
| FIND elements                                            | 00:43:36 | +0.66   |
| FIND elements                                            | 00:44:76 | +0.64   |
| GET element/1F000000-0000-0000-9B19-000000000000/text    | 00:46:16 | +0.05   |
| DELETE /session/078605ddcc9342e18e9bbdf81700c8b1         | 00:46:99 | +0.30   |



SAUCE LABS

## DEMO



Travis CI



[Link to demo](#)

## RESOURCES

- Link to repo:  
<https://github.com/DimitarTodorov/js-mobile-ci>
- Travis-CI platform  
<https://docs.travis-ci.com/>
- SauceLab documentation:  
<https://wiki.saucelabs.com/display/public/DOCS/The+Sauce+Labs+Cookbook+Home>  
<https://wiki.saucelabs.com/display/DOCS/Mobile+Application+Testing>
- Nativescript-dev-appium  
<https://github.com/NativeScript/nativescript-dev-appium>

Questions ?

# THANK YOU!

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