

Setting Up WebdriverIO

Before exploring how to write WebdriverIO tests, let's understand how to set up WebdriverIO. First of all, the prerequisites mentioned below have to be met.

Prerequisite -

1. In order to do the basic setup, we required to have node.js installed. To check if node.js is installed or not just type node -v command and run, we should see the node.js version.

node -v

2. When you install nodejs, node gives you a javascript runtime environment. Also, it installed by default npm which is nothing but node package manager. npm helps the user to install a third-party library. You can check npm version installed by typing the following command on the terminal.

npm -v

3. Download Visual Studio Code

4. Typescript version should be $\geq 4.0.5$

- a. To install *npm install -g typescript*

- b. To check the typescript version, run command *npm tsc -v or tsc -v*

Setup WDIO -

1. Creating A Project Workspace

- Setup the project folder by creating a workspace folder so that we can keep all the files in that.

2. Initialize package.json

- *npm init -y*
- With this command, we have created a package.json file where we can add dependencies that we require to run our automation.
- We have added -y option (which is optional) when we add -y option then it skips all input asking for 'Yes' prompts and setup default package.json settings for us.

3. Install WebdriverIO CLI

- *npm i --save-dev @wdio/cli*
- As a result of the above command, we can see dependency ("@wdio/cli": "^x.xx.xx") get added in the package.json file. (To check version *npx wdio --version*)

4. WebdriverIO Configuration

- Once the dependency is added in the package, we need to create a webdriverIO configuration file for executing test scripts through WebdriverIO.
- *npx wdio config -y (or npx wdio config)*

- By this command, the following packages are configured automatically, if needed we can change later if you want to.

@wdio/local-runner

@wdio/mocha-framework

@wdio/spec-reporter

@wdio-chromedriver-service

@wdio/sync - chromedriver

- Again, here we have used the ‘-y’ option so all default options get set up for you. And wdio.conf.js file gets created under your project root folder. We will use this file to configure our project.
- By default, this auto-configure set services as the chromedriver, framework as Mocha with BDD options.
- If we need different structure simply run below command
npx wdio config
- We can choose displayed options according to your requirements. And, this is the final output after entering the above options.

```
$ npm init -y
Wrote to C:\Users\232338\OneDrive\Desktop\WDIO\DemoWDIOProject\package.json:

{
  "name": "demowdioproject",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

```
$ npm i --save-dev @wdio/cli

added 496 packages, and audited 497 packages in 51s

92 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

- ? A project named "demowdioproject" was detected at
- ? What type of testing would you like to do? (Use arrow keys)ect? Yes
- ? What type of testing would you like to do? E2E Testing - of Web or Mobile
- ? Where is your automation backend located? (Use arrow keys)
- ? Where is your automation backend located? On my local machine

? Which environment you would like to automate? (Use arrow keys)

? Which environment you would like to automate? Web - web applications in the

? With which browser should we start? (Press <space> to select, <a> to toggle

? With which browser should we start? Chrome

? Which framework do you want to use? (Use arrow keys)

? Which framework do you want to use? Mocha (<https://mochajs.org/>)

? Do you want to use a compiler? TypeScript (<https://www.typescriptlang.org/>)

? Do you want WebdriverIO to autogenerate some test files? (Y/n) Y

? Do you want WebdriverIO to autogenerate some test files? Yes

? What should be the location of your spec files?

? What should be the location of your spec files?

? Do you want to use page objects

? Where are your page objects located?

? Which reporter do you want to use? (Press <space> to select, <a> to toggle s

? Which reporter do you want to use? spec

? Do you want to add a plugin to your test setup? (Press <space> to select, <a>

? Do you want to add a plugin to your test setup?

? Would you like to include Visual Testing to your setup? For more information

Y

? Would you like to include Visual Testing to your setup? For more information

? Do you want to add a service to your test setup? (Press <space> to select, <a>

? Do you want to add a service to your test setup? visual

? Do you want me to run `npm install` (Y/n)

? Do you want me to run `npm install` Yes