74. various options in use property & setting up Project configurations

 we have a file here(playwright.config.js) which have playing a role as a test runner and

driving everything.

So here we told you that we have to run all our tests on chromium browser and by default they have to run in head mode because we are making headless false.

So similarly, we are making sure that we get a screenshot on every attempt.

if you want to get a screenshot only on failure for that (screenshot : ‘only-on-failure’)

if you do not want screenshots (off)

capture scrrenshot on every test(on)

what if you want to run another configuration file?

 right now you have only one default configuration file when you created this project.

But you can still create more configuration files and tell your playwright to pick that configuration file instead of the default one.

Copy the default file and paste it name it as(playwright.config1.js)

So here I will say that I run my test cases in (browserName : webkit )

That means it uses safari engine.

if you have custom configuration which you want to run, then you can go like this hyphen, hyphen, config, and then you can pass a custom configuration file name.

(npx playwright test tests/ClinetApp.PO.spec.js –config playwright.config1.js )

So now the test will run in the safari engine in headless mode(true)

So that means you will not see browser opening at all.

use: {

    browserName : 'webkit',

       headless : true,

       screenshot : 'on',

       trace :     'retain-on-failure' ,            //'off', 'on',

  }

There is one way that you can parameterized them in your one single configuration file only.

Instead of creating multiple configuration projects now, you can simply tell your playwright that which project it has to execute should that need to be safari or Chrome.

reporter: 'html',

  projects : [

    {

         name : 'safari',

         use : {

          browserName : 'webkit',

             headless : true,

             screenshot : 'on',

             trace :     'retain-on-failure' ,            //'off', 'on',

        }

    },

    {

      name : 'chrome',

      use: {

        browserName : 'chromium',

           headless : false,  // show the browser

           screenshot : 'on',

           trace :     'retain-on-failure' ,            //'off', 'on',

      }

 }

  ]

npx playwright test tests/ClinetApp.PO.spec.js –config playwright.config1.js –project=safari

75. View port Property on emulating browser to mobile devices with playwright

there is another property called viewport, so this property will help you to understand

how that browser should open in what size.

I want to override the default size on how browser has to open.

And if I tell like this, that open in the width 720 and height 720.

So if I override some option viewport in this configuration file, what happens is your Chrome browser will open in this dimensions. ( viewport : {width:720,height:720}

So like that you can now change the behavior of your browser also.

And this is mostly used when you are performing web responsive testing.

so just making sure that elements are fitting in the page currently correctly are not.

if you have a requirement that if you are a website is mobile friendly, then you

can decrease the size up to the iPad in Mobile and put it in that viewport and see if tests are still passing. That means if user is still able to access everything with a shrinked screen.

So you can tell WebKit the open browser in iPhone 11 screen dimensions.

( …devices[‘iPhone 11’] )

Viewport is all about you deciding what wdith, height and here you are just giving the device name under the duty of playwright to decide what width and height it has to use based on the device name you used.

you can tweak your playwright Automation to execute in any manner.

there is another concept called handling SSL certifications. So if website is not SSL certified. You might get some certification error on the screen.

So you need to click on advanced and accept So that by default playwright does for us.

If you said one property then it will accept this SSL, click on this advanced and proceed and load the website all that it will do by default.

So for that you need to set one property which is (ignoreHttpsErrors:true)

So when you say this then it will just help you to load

Even the website is not Https and accepts the SSL certificate.

And sometimes you will see a pop up on the screen asking allow to know your location.

If you want to automatically handle that, pop up by playwright.

This is also one property(permissions:[‘geolocation’] )

So if you give this then any pop up, if you get on screen that Google wants to know your location, your browser will simply click on a allow button. When you set permissions by giving geolocation.

reporter: 'html',

  projects : [

    {

         name : 'safari',

         use : {

          browserName : 'webkit',

             headless : false,

             screenshot : 'on',

             trace :     'retain-on-failure' ,            //'off', 'on',

             ...devices['iPhone 11'],

        }

    },

    {

      name : 'chrome',

      use: {

        browserName : 'chromium',

           headless : false,  // show the browser

           screenshot : 'on',

           ignoreHTTPSErrors:true,

           permissions:['geolocation'],

           trace :     'retain-on-failure' ,            //'off', 'on',

          viewport : {width:720,height:720}

          }

 }

  ]

76. Screenshots, Videos, Traces & SSL certification options setting in Config file

So in any framework, three important things everyone look for to configure.

after screenshots some people are interested to have a video You are a test execution also possible with the playwright.

So if you want to take the video for failure things, then what it does is if you provide this option here in use property. Use property is something where your test will read.

[Videos | Playwright](https://playwright.dev/docs/videos)

Playwright Test can record videos for your tests, controlled by the video option in your Playwright config. By default videos are off.

* 'off' - Do not record video.
* 'on' - Record video for each test.
* 'retain-on-failure' - Record video for each test, but remove all videos from successful test runs.
* 'on-first-retry' - Record video only when retrying a test for the first time.
* {
* name : 'chrome',
* use: {
* browserName : 'chromium',
* headless : false,  // show the browser
* screenshot : 'on',
* video : 'retain-on-failure',
* ignoreHTTPSErrors:true,
* permissions:['geolocation'],
* trace :     'retain-on-failure' ,            //'off', 'on',
* viewport : {width:720,height:720}
* }
* }

if somebody ask you like how to generate a logs in that playwright.Tell them about traces