**Handling of Elements in Cypress:**

**Day1:**

* Radio button -> click()
* Check box -> check/uncheck option
* Dropdown
  + Value
  + Text
  + Index
* Should/and -> eq,be.visible,be.enabled,have.length
* Invoke -> to invoke the attributes/text

**Day2:**

* New Window/New Tab
  + Cypress has a limitation -> since it runs under its own native runner we cannot basically handle new window but there is a trick to handle it
  + We can handle by below methods
    - Using the remove attributes way
    - Based on window property-> attribute “href” -> its not working why
* Alerts in webpage
* Upload of file

**Day3:**

* Webtables in webpage
  + DOM -> tbody,table -> table body
    - Td -> table data -> cell
    - Tr -> table row -> rows
    - Th -> table header
* Frames or iframes -> a page with in a page ,we can call it as a sub page
  + Keywords ->
    - frameLoaded
    - iframe
* Mouse hover
  + Cypress - struggles a bit over here
  + Tags
  + Css -> cypress can never handle it
  + Trigger -> keyword available in cypress
    - Where all the mouse related actions can happen

**Day4:**

* Intercept in cypress --> it was dealing with request and repsonse for the application
* Fixtures -> how to handle constants/data as part of testing
* Handling of cookies - setcookies /getcookies

**Day5:**

* cy.stub and cy.clock
  + Stub -> mock or replicate the behaviour of application without running the application
  + Clock -> it perfoms a delay to check the behaviour of the application
* View port- different dimentions to check the compatibility if the web applicaiton to device

**Day6:**

* Design patterns and Intro POM model
  + Version1 - run ?
  + Version2

**Day 7:**

* Hooks
  + Pre-requisite and post requisite
  + Before and after -> running before all the “it”
    - Before -> pre-requisite
    - After -> post-requisite
  + Beforeeach and aftereach -> running before each “it”
    - BeforeEach -> pre-requisite
    - AfterEach -> post -requisite
  + Demo to be shown ?
* Command.js file in cypress

**Day 8:**

* How to generate reports
  + Mochawesome - setup and configuration and how to run
* Cypress.env,usage of cypress.config.js (screenshots,video recording)

**Day 9:**

* API Testing using cypress- GET,POST,PUT,PATCH,DELETE - POM ?

**Day 10:**

* Intro to BDD(Cucumber) with cypress - setup of cucumber with cypress
  + Easily understandable for any non technical persons
  + Package - cucumber,gherkins language(Given,When,And,Then)
    - Cucumber - framework
      * Feature file -> where we input all the testcases
      * Step definitions -> where we implement the coding
      * Pages -> where we identify the locators
      * Couple of reports - native reports ,in the format of json,html,xml
      * Tags - where in we can pinthe test cases to a tag and run that tag alone
    - Gherkins - we mention this as part of feature file(simple file with extension as ‘\*.feature’)
      * Given -> any pre-requisite we mention here
      * When -> any initialisation
      * And -> steps to go through
      * Then -> verificaiton or validaiton
      * All the above items will be avialable in feature file

**Flow of Cucumber framework:**

Featurefile -> stepdefinitons(file.cy.js) <-> pages(file.js)

**Configuration and setup:**

**Reporter config:**

****Cucumber plugin:****

1. ****Cypress.config.js****

**const cucumber = require('cypress-cucumber-preprocessor').default**

**const { defineConfig } = require("cypress");**

**module.exports = defineConfig({**

**reporter: 'cypress-mochawesome-reporter',**

**video: true,**

**reporterOptions: {**

**charts: true,**

**reportPageTitle: 'Cypress Inline Reporter',**

**embeddedScreenshots: true,**

**inlineAssets: true, //Adds the asserts inline**

**},**

**e2e: {**

**specPattern: "cypress/e2e/\*.feature",**

**setupNodeEvents(on, config) {**

**// implement node event listeners here**

**on('file:preprocessor', cucumber())**

**require('cypress-mochawesome-reporter/plugin')(on);**

**},**

**},**

**});**

1. ****Package.json****

**Append the below code,**

**"cypress-cucumber-preprocessor": {**

**"nonGlobalStepDefinitions": true,**

**"stepDefinitions": "cypress/e2e/bstacksite",**

**"cucumberJson": {**

**"generate": true,**

**"outputFolder": "cypress/cucumber-json",**

**"filePrefix": "",**

**"fileSuffix": ".cucumber"**

**}**

**}**

**npm install --save-dev cypress-cucumber-preprocessor**

**npm i -D cypress cypress-cucumber-preprocessor**

****Default cypress reporter:****

**npm i --save-dev cypress-mochawesome-reporter**

**yarn add -D cypress-mochawesome-reporter**

****Cypress cucumber HTML reporter:****

**npm install multiple-cucumber-html-reporter --save-dev**

**Day 11:**

* Features in cucumber->background,scenario,scenario outline, Tags

**Day 12:**

* New version of cypress cucumber -> badeball
* Git version controll tool -> Git
  + We create a code -> push the code to you git repo
  + Vs code - with git plugin to push/pull/fetch