**What are challenges faced during selenium automation/ disadvantages of selenium/ what are all we cannot automate?**

1. **Images or text overlapping issue cannot verify.**

2. No facility to capture **capatch and Bar code.**

3. Does not support **non web and mobile application**.

4. Open source - so there is **no direct support**.

5. Bitmap comparison (**BMP**) does not support.

6. Report: **No reporting** API/capabilities available need to use 3rd party tools like **TestNG and Extent reporting**

7. **Need to learn native programming** language Java, python, .net, PHP etc

8. **Difficult** to identify dynamic object (**dynamic Xpath**).

9. **Working with frame** (ex: in ecommerce more than 10 frames jumping one frame to other or coming back it's difficult).

//10. JavaScript sandbox, flash and HTML-5 are all preset problems.

11. **Dealing with pop-up** never know what kind of pop-up will be (java script, wind pop-up, model pop-up or browser pop-up)

12**. \*\*\* Time out resulting from synchronization problem:**

When to use **implicit wait, explicit wait** sometime explicit wait also does not works need to use **JavaScriptExecutor** also need to check element **is present**, **is enabled and is selected** we will get StaleElementException, ElementNotFoudException, ElementNotVisibleException where

We must know how to use implicit, explicit, fluent wait then JavaScriptExecutor is the solution where we should **never use Thread.sleep().**

13. **Cross browser testing issue**, 500 TC execting on chrome then need to exected all on other browser.

14**. Handling Ajax Components:** Asynchronous call

Example: on home page 2 dropdown

Country: USA

State: California

On changing country INDIA then a valid wait need to reset the state dropdown and indian state sometime the USA state only displayed.

**What are disadvantages of selenium/ what are all we cannot automate?**

1. **Images or text overlapping issue** cannot verified.

2. No facility to capture **capatch and Bar code.**

3. Does not support **non web application.**

4. Selenium will support **mobile application.**

5. Report: **No direct reporting** API/capabilities available need to use 3rd party tools like **TestNG and Extent reporting**