- how to refer those elements which are come into action, when we move the mouse.

- which class is responsible to achieve above mentioned point. How to create the object.

- what are the methods to access above type of elements

- which final method has to be called at the end.

- which method is not working in firefox

- accept the alter dialog box and extract the title.

- handle alert which is opening up website for entering credentials.

**Actions**

There are some gestures which we do while browsing web site which are mouseover, drag and drop, slider, resize, right click.

1. moveToElement
2. dragAndDropBy
3. dragAndDrop
4. contextClick
5. sendKeys(Keys.ENTER)
6. sendKeys(Keys.*chord*(Keys.***CONTROL***+"a"))
7. sendKeys(Keys.chord(Keys.CONTROL+"a")).sendKeys(Keys.chord(Keys.CONTROL+"c")).build().perform()

In order to automate such gesture, a special class is launched in web driver i.e. "Actions class"

**Note**: **In Firefox, there is bug while using keys.chord, it is not working as expected**

**How to redirect to boot section belongs men in jabong.com**

men is represented as menu on site, which is appered moment we hover the mouse on it. so how to automate jobong site to move on "men" menu and go inside "boot section. Here we are using gesture mouse hovering, which would be handled by "Actions" class.

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("http://www.jabong.com");***

***driver.manage().window().maximize();***

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***WebElement menu = driver.findElement(By.xpath("//\*[@id='mainTopNav']/li[2]/a"));***

***Actions action = new Actions(driver);***

***action.moveToElement(menu).perform();***

***driver.findElement(By.linkText("Boots")).click();***

**How to use slider gesture**

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("https://jqueryui.com/resources/demos/slider/default.html");***

***driver.manage().window().maximize();***

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***WebElement slider = driver.findElement(By.xpath("//\*[@id='slider']/span"));***

***new Actions(driver).dragAndDropBy(slider, 400, 0).perform();***

**How to use drag and drop gesture**

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("https://jqueryui.com/resources/demos/droppable/default.html");***

***driver.manage().window().maximize();***

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***WebElement draggable = driver.findElement(By.xpath("//\*[@id='draggable']"));***

***WebElement droppable = driver.findElement(By.xpath("//\*[@id='droppable']"));***

***Actions action = new Actions(driver);***

***action.dragAndDrop(draggable, droppable).perform();***

**How to use right click gesture**

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("http://deluxe-menu.com/popup-mode-sample.html");***

***driver.manage().window().maximize();***

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***WebElement img = driver.findElement(By.xpath("//p[2]/img"));***

***Actions action = new Actions(driver);***

***action.contextClick(img).perform();***

**How to use keyboard gesture- copy paste**

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("http://gmail.com");***

***driver.manage().window().maximize();***

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***driver.findElement(By.xpath("//\*[@id='Email']")).sendKeys("rajanitclasses@gmail.com");***

***driver.findElement(By.xpath("html/body/div[1]/div[2]/div[2]/div[1]")).click();***

***Actions action = new Actions(driver);***

***action.sendKeys(Keys.chord(Keys.CONTROL+"a")).perform();***

***action.sendKeys(Keys.chord(Keys.CONTROL+"c")).perform();***

***driver.findElement(By.xpath("//\*[@id='Email']")).click();***

***action.sendKeys(Keys.chord(Keys.CONTROL+"v")).perform();***

**How to handle alert**

***Alert alert = driver.switchTo().alert();***

***sopl(alert.getText());***

***alert.accept();***

**How to handle that alert which is opened on loading the webpage, just for entering login credentials**

***WebDriver driver = new FirefoxDriver();***

***driver.navigate().to("http://getproactiv-ca.stg01.grdev.com/");***

***driver.switchTo().alert().authenticateUsing((Credentials) new UsernamePasswordCredentials("grcdev", "nearlythere"));***