So, lets develop the object repository and action class for dashboard.

**admindashboardOR.java of objectrepository package:**

We have developed two methods for getting the information from dashboard for each one.

For example, for getting the no. of brands, we developed admingetoldlistedbrands() and admingetnewlistedbrands(). Because we have to get these no. of brands before submitting a brand and after submitting the brand we have to write two methods and we refer these by these keywords. If you write one method, there will be a problem of storing it in a variable.

**package** objectrepository;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**public** **class** admindashboardOR {

WebDriver driver;

**public** admindashboardOR(WebDriver driver){

**this**.driver = driver;

}

**public** WebElement admingetoldregisteredusers() {

WebElement regusers = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(0);

**return** regusers;

}

**public** WebElement admingetnewregisteredusers() {

WebElement regusers = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(0);

**return** regusers;

}

**public** WebElement admingetoldlistedvehicles() {

WebElement listedvehicles = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(1);

**return** listedvehicles;

}

**public** WebElement admingetnewlistedvehicles() {

WebElement listedvehicles = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(1);

**return** listedvehicles;

}

**public** WebElement admingetoldtotalbookings() {

WebElement totalbookings = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(2);

**return** totalbookings;

}

**public** WebElement admingetnewtotalbookings() {

WebElement totalbookings = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(2);

**return** totalbookings;

}

**public** WebElement admingetoldlistedbrands() {

WebElement listedbrands = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(3);

**return** listedbrands;

}

**public** WebElement admingetnewlistedbrands() {

WebElement listedbrands = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(3);

**return** listedbrands;

}

**public** WebElement admingetoldsubscribers() {

WebElement totalsubscribers = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(4);

**return** totalsubscribers;

}

**public** WebElement admingetnewsubscribers() {

WebElement totalsubscribers = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(4);

**return** totalsubscribers;

}

**public** WebElement admingetoldtotalqueries() {

WebElement totalqueries = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(5);

**return** totalqueries;

}

**public** WebElement admingetnewtotalqueries() {

WebElement totalqueries = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(5);

**return** totalqueries;

}

**public** WebElement admingetoldtestimonials() {

WebElement totaltestimonials = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(6);

**return** totaltestimonials;

}

**public** WebElement admingetnewtestimonials() {

WebElement totaltestimonials = driver.findElements(By.*cssSelector*(".stat-panel-number.h1")).get(6);

**return** totaltestimonials;

}

}

**admindashboard.java action class of actions package:**

Here, we develop the action class methods as per the keywords. We develop the two action methods for capturing the no. of brands, one for before submitting the brand which is admingetoldlistedbrands() and another for after submitting the brand which is admingetnewlistedbrands().

**public** **void** admingetoldlistedbrands(WebElement listedbrands) {

String no\_brands = listedbrands.getText();

*checkvalues*.put(session.toString()+"oldbrands", no\_brands);

}

**public** **void** admingetnewlistedbrands(WebElement listedbrands) {

String no\_brands = listedbrands.getText();

*checkvalues*.put(session.toString()+"newbrands", no\_brands);

}

Once we capture the number of brands, we will save it in a map with session id. We will also define this map as static and we define the session as well.

**public** **static** Map<String, String> *checkvalues* = **new** HashMap<String, String>();

WebDriver driver;

SessionId session;

**public** admindashboard(WebDriver driver){

**this**.driver = driver;

session = ((RemoteWebDriver) driver).getSessionId();

}

When we want to get the difference in no. of brands, we will get the old number of brands and new number of brands from the map and calculate the difference. We pass the expected difference from the keyword in brackets and we verify this with the difference we calculated. We use assert function here to verify the actual difference and expected difference.

**public** **void** checkbrandsdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newbrands"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldbrands"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for brands is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldbrands");

*checkvalues*.remove(session.toString()+"newbrands");

}

The following is the full class.

**package** actions;

**import** java.util.HashMap;

**import** java.util.Map;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.remote.RemoteWebDriver;

**import** org.openqa.selenium.remote.SessionId;

**import** org.testng.Assert;

**public** **class** admindashboard {

**public** **static** Map<String, String> *checkvalues* = **new** HashMap<String, String>();

WebDriver driver;

SessionId session;

**public** admindashboard(WebDriver driver){

**this**.driver = driver;

session = ((RemoteWebDriver) driver).getSessionId();

}

**public** **void** admingetoldregisteredusers(WebElement regusers) {

String no\_users = regusers.getText();

*checkvalues*.put(session.toString()+"oldusers", no\_users);

}

**public** **void** admingetnewregisteredusers(WebElement regusers) {

String no\_users = regusers.getText();

*checkvalues*.put(session.toString()+"newusers", no\_users);

}

**public** **void** checkusersdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newusers"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldusers"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for users is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldusers");

*checkvalues*.remove(session.toString()+"newusers");

}

**public** **void** admingetoldlistedvehicles(WebElement listedvehicles) {

String no\_vehicles = listedvehicles.getText();

*checkvalues*.put(session.toString()+"oldvehicles", no\_vehicles);

}

**public** **void** admingetnewlistedvehicles(WebElement listedvehicles) {

String no\_vehicles = listedvehicles.getText();

*checkvalues*.put(session.toString()+"newvehicles", no\_vehicles);

}

**public** **void** checkvehiclesdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newvehicles"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldvehicles"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for vehicles is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldvehicles");

*checkvalues*.remove(session.toString()+"newvehicles");

}

**public** **void** admingetoldtotalbookings(WebElement totalbookings) {

String no\_bookings = totalbookings.getText();

*checkvalues*.put(session.toString()+"oldbookings", no\_bookings);

}

**public** **void** admingetnewtotalbookings(WebElement totalbookings) {

String no\_bookings = totalbookings.getText();

*checkvalues*.put(session.toString()+"newbookings", no\_bookings);

}

**public** **void** checkbookingsdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newbookings"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldbookings"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for bookings is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldbookings");

*checkvalues*.remove(session.toString()+"newbookings");

}

**public** **void** admingetoldlistedbrands(WebElement listedbrands) {

String no\_brands = listedbrands.getText();

*checkvalues*.put(session.toString()+"oldbrands", no\_brands);

}

**public** **void** admingetnewlistedbrands(WebElement listedbrands) {

String no\_brands = listedbrands.getText();

*checkvalues*.put(session.toString()+"newbrands", no\_brands);

}

**public** **void** checkbrandsdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newbrands"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldbrands"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for brands is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldbrands");

*checkvalues*.remove(session.toString()+"newbrands");

}

**public** **void** admingetoldsubscribers(WebElement subscribers) {

String no\_subscribers = subscribers.getText();

*checkvalues*.put(session.toString()+"oldsubscribers", no\_subscribers);

}

**public** **void** admingetnewsubscribers(WebElement subscribers) {

String no\_subscribers = subscribers.getText();

*checkvalues*.put(session.toString()+"newsubscribers", no\_subscribers);

}

**public** **void** checksubscribersdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newsubscribers"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldsubscribers"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for subscribers is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldsubscribers");

*checkvalues*.remove(session.toString()+"newsubscribers");

}

**public** **void** admingetoldtotalqueries(WebElement queries) {

String no\_queries = queries.getText();

*checkvalues*.put(session.toString()+"oldqueries", no\_queries);

}

**public** **void** admingetnewtotalqueries(WebElement queries) {

String no\_queries = queries.getText();

*checkvalues*.put(session.toString()+"newqueries", no\_queries);

}

**public** **void** checkqueriesdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newqueries"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldqueries"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for queries is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldqueries");

*checkvalues*.remove(session.toString()+"newqueries");

}

**public** **void** admingetoldtestimonials(WebElement testimonials) {

String no\_testimonials = testimonials.getText();

*checkvalues*.put(session.toString()+"oldtestimonials", no\_testimonials);

}

**public** **void** admingetnewtestimonials(WebElement testimonials) {

String no\_testimonials = testimonials.getText();

*checkvalues*.put(session.toString()+"newtestimonials", no\_testimonials);

}

**public** **void** checktestimonialsdifference(**int** expecteddiff) {

**int** actualdiff = Integer.*parseInt*(*checkvalues*.get(session.toString()+"newtestimonials"))-Integer.*parseInt*(*checkvalues*.get(session.toString()+"oldtestimonials"));

Assert.*assertEquals*(actualdiff, expecteddiff);

System.***out***.println("The expected difference for testimonials is equal to the actual diff");

*checkvalues*.remove(session.toString()+"oldtestimonials");

*checkvalues*.remove(session.toString()+"newtestimonials");

}

}