A Project Report On

Automation testing using Maven & TestNg on Guru99 demo side website.

By

Rucha Badgujar

Batch No : 2021-6289
Enrollment Number : EBEON1021459120

Under the Guidance of ,

Priyanka Desle

(Technical Trainer)

Table of Contents

Introduction

This Project aims to do overall testing like functional testing, GUI testing on website to check quality of application. It helps to improve quality of website and saves time for manually doing this testing. In this project our main focus is to check functionalities available on website. Also it includes title check and all links count with their working status.

2.1Software Requirements

- Operating System :- Window 10
- Browser:- Google Chrome
- IDE :- Eclipse IDE
- Front-end:- Maven & TestNg

2.1.Guru99 Home Page.
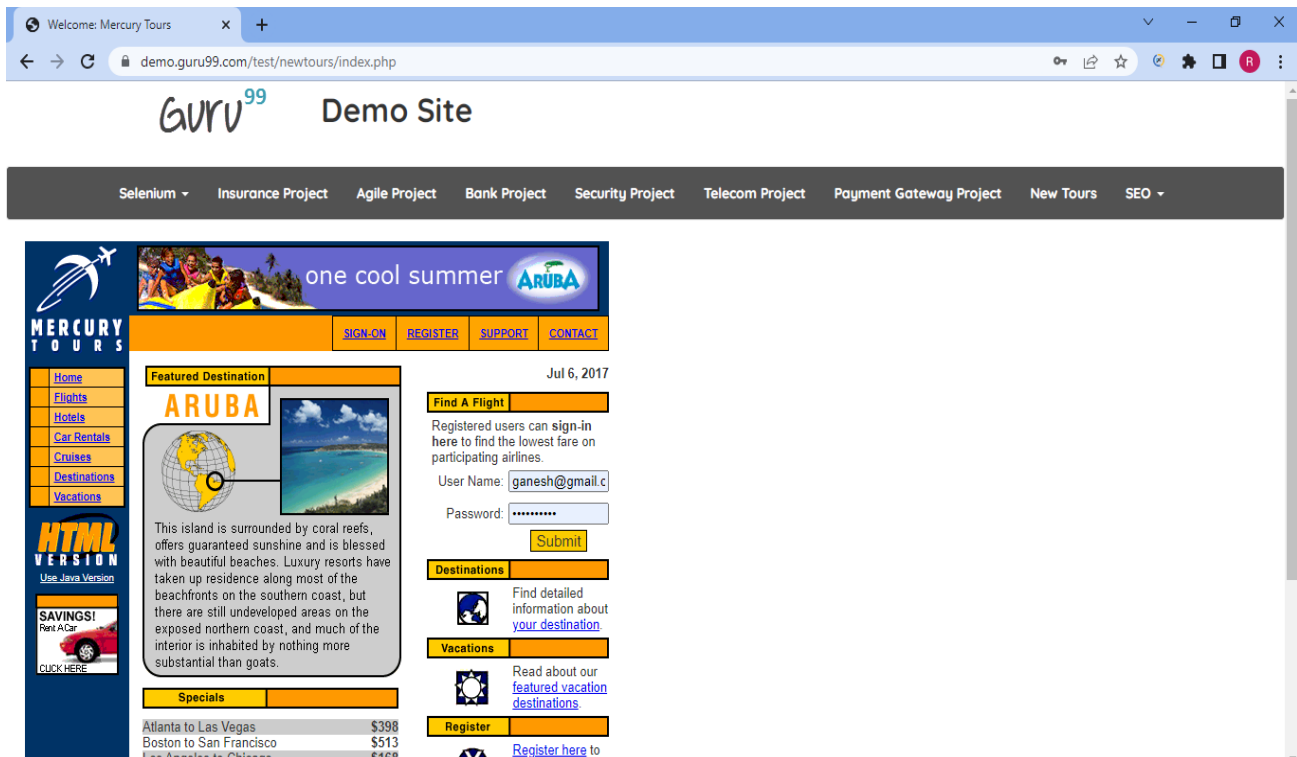
3.Demo99 Page Browser Actions.

3.1. Launch the browser and open New Demo Tour Website .

```
System.setProperty("webdriver.chrome.driver", "chrome driver path");
WebDriver w= new ChromeDriver();
// 2.To Open URL
w.get("http://demo.guru99.com/test/newtours/index.php");
// 3.maximize windows
w.manage().window().maximize();
```

3.2. Print Page title , Current URL and Page Source.

```
//1. print page title
w.get("https://demo.guru99.com/test/newtours/");
String Page_Title = w.getTitle();
System.out.println(Page_Title);

// 2. print current URL
String current_url = w.getCurrentUrl();
System.out.println(current_url);

//3.print page source
String Page_Source = w.getPageSource();
System.out.println(Page_Source);
```

3.3. Print Total no of links available on webside.

```
List<WebElement> links = w.findElements(By.tagName("a"));
int Total_links = links.size();
System.out.println("Total links available on webside :" + Total_links);
```

3.4.Validate navigate methods on new demo tour webside.

w.navigate().refresh();
w.navigate().forward();
w.navigate().back();
w.navigate().to("https://demo.guru99.com/V1/index.php");

3.5.Validate Page Title and Login to new demo tour webside.

```
if (w.getTitle().equals("Welcome: Mercury Tours"))
{
// 1.enter UN
WebElement UserName = w.findElement(By.name("userName"));
UserName.sendKeys("abc");
// 2.enter PWD
WebElement password = w.findElement(By.name("password"));
password.sendKeys("abc");
// 3.click on submit
WebElement submit = w.findElement(By.name("submit"));
submit.click();
System.out.println("Page Title of new demo tour page : " +w.getTitle());
 }
 else
 {
 System.out.println("Incorrect tital");
 }
```

4.Guru99 New Tour webside.

4.1.Validate Login with valid data and print login successfully.

```
// 1Enter valid user name
w.findElement(By.name("userName")).sendKeys("abc");
// 2.Enter valid password
w.findElement(By.name("password")).sendKeys("abc");
// 3click on submit button
w.findElement(By.name("submit")).click();
//4.print login successfully  text
WebElement a=w.findElement(By.linkText("Login Successfully"));
a.getText();
System.out.println(a.getText());
```

4.2.validate Login with invalid data and print error.

```
//1.Enter valid UN
w.findElement(By.name("userName")).sendKeys("abc");
// 2.Enter invalid  password
w.findElement(By.name("password")).sendKeys("1397");
// 3click on submit button
w.findElement(By.name("submit")).click();
WebElement x=w.findElement(By.xpath("//span[contains(text(),'Enter
your userName and password correct')]"));
String a1=x.getText();
System.out.println("Error Massage:"+ a1);
```

4.3.Validate sign On with valid data and click on sign off.

```
// 1.click on sign on
w.findElement(By.xpath
("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[2]/td/table/tbody/t
r/td[1]/a")).click();
```

```
// 2.enter UN
w.findElement(By.name("userName")).sendKeys("abc");
// 3.enter PWD
w.findElement(By.name("password")).sendKeys("abc");
// 4.click on submit
 w.findElement(By.name("submit")).click();

//5.click on Sign off
w.findElement(By.xpath("//a[contains(text(),'SIGN-OFF')]")).click();
```

4.4.Validate Register Form with valid data.

```
//1.click on register link
w.findElement(By.linkText("REGISTER")).click();
//2.Enter valid first name
w.findElement(By.name("firstName")).sendKeys("Rucha");
//3.Enter valid last name
w.findElement(By.name("lastName")).sendKeys("Badgujar");
//4.Enter valid phone no
w.findElement(By.name("phone")).sendKeys("7466468638");
//5.Enter valid email
w.findElement(By.name("userName")).sendKeys("ruchabadgujar01@gmail.com");
//6.Enter valid address
w.findElement(By.name("address1")).sendKeys("old dhuler");
//7.Enter city
w.findElement(By.name("city")).sendKeys("Dhule");
//8.Enter state
w.findElement(By.name("state")).sendKeys("Maharasta");
//9.Enter postal code
w.findElement(By.name("postalCode")).sendKeys("424001");
//10.Enter country
Select s = new Select(w.findElement(By.name("country")));
s.selectByValue("INDIA");
//11.Enter email
```

```
w.findElement(By.name("email")).sendKeys("ruchabadgujar01@gmail.
com");
//15.Enter password
w.findElement(By.name("password")).sendKeys("badgujarrucha@1397
");
//16.Enter confirm pass
w.findElement(By.name("confirmPassword")).sendKeys("badgujarrucha
@1397");
//17.click submit
w.findElement(By.name("submit")).click();
//18.back to home page
w.navigate().to("http://demo.guru99.com/test/newtours/index.php");
```

4.5 Validate Flight Form with valid data.

```
// 1.click on flight link
w.findElement(By.xpath("//a[contains(text(),'Flights')]")).click();
Thread.sleep(3000);
// 2.click on round click
w.findElement(By.xpath("//tbody/tr[2]/td[2]/b[1]/font[1]/input[1]")).clic
k();
// 3.select no of passanger
Select S1 = new Select(w.findElement(By.name("passCount")));
S1.selectByValue("2");
// 4.select no of departing from
Select s1 = new Select(w.findElement(By.name("fromPort")));
s1.selectByValue("London");
// 5.select no of on(from month)
Select s2 = new Select(w.findElement(By.name("fromMonth")));
s2.selectByValue("3");
// 6.select no of on (from day)
Select s3 = new Select(w.findElement(By.name("fromDay")));
s3.selectByValue("4");
// 7.select from arriving in
Select s4 = new Select(w.findElement(By.name("toPort")));
```

```java
s4.selectByValue("New York");
// 8.select no of returning
Select s5 = new Select(w.findElement(By.name("toMonth")));
s5.selectByValue("5");
// 9.select no of returning
Select s6 = new Select(w.findElement(By.name("toDay")));
s6.selectByValue("10");
w.findElement(By.xpath("//tbody/tr[9]/td[2]/font[1]/font[1]/input[2]")).c
lick();
// 10.select no of airline
Select s7 = new Select
(w.findElement(By.xpath("//tbody/tr[10]/td[2]/select[1]")));
s7.selectByVisibleText("Blue Skies Airlines");
// 11.click on findflights
w.findElement(By.name("findFlights")).click();
```

4.6.validate all links available on page.

```java
// 1.click on hotel
WebElement hotel = w.findElement(By.linkText("Hotels"));
hotel.click();
w.navigate().back();
// 2.click on car
WebElement car = w.findElement(By.linkText("Car Rentals"));
car.click();
w.navigate().back();
// 3.click on cruises
WebElement Cruises = w.findElement(By.linkText("Cruises"));
Cruises.click();
// 4.click on destinations
WebElement Destinations =
w.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[1]/table/tb
ody/tr/td/table/tbody/tr/td/table/tbody/tr[6]/td[2]/a"));
Destinations.click();
w.navigate().back();
```

```java
// 5.click on vacation
WebElement Vacations = w.findElement(By.linkText("Vacations"));
Vacations.click();
w.navigate().back();
// 6.click on support
WebElement SUPPORT = w.findElement(By.linkText("SUPPORT"));
SUPPORT.click();
w.navigate().back();
// 8.click on contact
WebElement CONTACT = w.findElement(By.linkText("CONTACT"));
CONTACT.click();
w.navigate().back();
// 9.click on contact
WebElement HOME = w.findElement(By.linkText("Home"));
HOME.click();
// 10.click on your destination
WebElement you_destination  = w.findElement(By.linkText("your
destination"));
you_destination.click();
// 11.click on your destination
WebElement featured_vacation_destinations  =  w.findElement
(By.linkText("featured vacation destinations"));
featured_vacation_destinations.click();
// 11.click on your destination
WebElement BusinessTravel = w.findElement(By.linkText("Business
Travel @ About.com"));
BusinessTravel.click();
```

5.Guru99 Payment Gateway Project.

5.1.Validate Add To card and fill the bank details.

```java
// 1.click on card
WebElement card = w.findElement(By.xpath("//*[@id=\"nav\"]/a[1]"));
card.click();
//2.Select notice period
```

```
Select licencePeriod = new Select
(w.findElement(By.xpath("//*[@id=\"three\"]/div/form/div/div[4]/select
")));
licencePeriod.selectByValue("4");
//3.click on buy now
WebElement buynow = w.findElement
(By.xpath("//*[@id=\"three\"]/div/form/div/div[8]/ul/li/input"));
buynow.click();
// 4.Fill the payment process
WebElement card_no = w.findElement
(By.xpath("//input[@id='card_nmuber']"));
card_no.sendKeys("1254369854012584");
//5.select month
Select month = new Select
(w.findElement(By.xpath("//select[@id='month']")));
month.selectByValue("6");
//6.select year
Select expeiration_year = new Select(w.findElement(By.id("year")));
expeiration_year.selectByValue("2025");
//7.enter ccv
WebElement ccv = w.findElement(By.name("cvv_code"));
ccv.sendKeys("4521");
//8.click on submit
WebElement submit = w.findElement(By.name("submit"));
submit.click();
//9.click on home
w.findElement(By.xpath("//a[contains(text(),'Home')]")).click();
```

5.2. validate generate card number button and print url.

```
// click on Generate Card Number
WebElement generate_card_no =
w.findElement(By.xpath("//*[@id=\"nav\"]/a[2]"));
generate_card_no.click();
w.getCurrentUrl();
```

System.*out*.println("URl of the page is "+w.getCurrentUrl());

5.3. validate Credit card Limit with valid data.

```
//1.click on  check credit card limit
WebElement check_credit_card_limit = w.findElement
(By.linkText("Check Credit Card Limit"));
check_credit_card_limit.click();
//2.Enter no
WebElement credit_card_no = w.findElement
 (By.name ("card_nmuber"));
credit_card_no.sendKeys("1425879635152486");
//3.click on submit
WebElement submit1 = w.findElement
(By.xpath("//body/section[@id='three']/div[1]/form[1]/div[1]/div[6]/inp
ut[1]"));
submit1.click();
```

6. Guru 99 Telecom Project.

6.1. Validate add customer with valid data .

```
//1.click on add customer
WebElement add_customer = w.findElement(By.linkText("Add
Customer" ));
add_customer.click();
Thread.sleep(4000);
//2.click on background check
WebElement background_check = w.findElement
(By.xpath("//*[@id=\"main\"]/div/form/div/div[2]/label"));
background_check.click();
//3.Enter first name
WebElement firstname = w.findElement(By.id("fname"));
firstname.sendKeys("Rucha");
//4.Enter last name
```

```
WebElement lastname = w.findElement(By.id("lname"));
lastname.sendKeys("Patil");
//5.Enter email
WebElement email = w.findElement(By.id("email"));
email.sendKeys("badgujarrucha097@gmail.com");
//6. Enter address
WebElement address = w.findElement
(By.xpath("/html[1]/body[1]/section[1]/div[1]/form[1]/div[1]/div[7]/text
area[1]"));
address.sendKeys("dhule");
//7. Enter Mobile No
WebElement MobileNo = w.findElement(By.name("telephoneno"));
MobileNo.sendKeys("7975826124");
//8.Click on Submit
WebElement submit = w.findElement
(By.xpath("//body/section[@id='main']/div[1]/form[1]/div[1]/div[9]/ul[1
]/li[1]/input[1]"));
submit.click();
//9.Click on homepage
WebElement homepage = w.findElement
(By.xpath("//*[@id=\"main\"]/div/div/ul/li/a"));
homepage.click();
```

6.2.validate add traffic plan for customer with valid data.

```
//1.Click on Traffic Plan
WebElement add_traffic_plan = w.findElement
(By.xpath("//body/section[@id='one']/div[1]/div[1]/div[2]/h3[1]/a[1]"));
add_traffic_plan.click();
//2.Enter Customer ID
WebElement add_customer_id = w.findElement
(By.xpath("//input[@id='customer_id']"));
add_customer_id.sendKeys("592188");
//3.click on submit
```

```java
WebElement submit = w.findElement
(By.xpath("//*[@id=\"main\"]/div/form/div/div[6]/input"))
submit.click();
//4.click on add traffic plan2
WebElement add_traffic_plan2 = w.findElement
(By.xpath("//*[@id=\"main\"]/div/form/div[2]/input"));
add_traffic_plan2.click();
//5.click on home
WebElement Home = w.findElement(By.xpath
("//body/section[@id='main']/div[1]/ul[1]/li[1]/a[1]"));
Home.click();
```

6.3.validate add customer with valid data .

```java
//1. Add Tariff Plan
WebElement Add_Tariff_Plan = w.findElement
(By.linkText("Add Tariff Plan"));
Add_Tariff_Plan.click();
//2.Enter monthly rental
WebElement monthly_rental = w.findElement(By.id("rental1"));
monthly_rental.sendKeys("50");
//3.Enter monthly rental
WebElement local_miniutes = w.findElement
(By.xpath("//input[@id='local_minutes']"));
local_miniutes.sendKeys("1000");
//4.EnterFree international minuits
WebElement Freeinternationalminuits = w.findElement
(By.xpath("//*[@id=\"inter_minutes\"]"));
Freeinternationalminuits.sendKeys("9000");
//5.Enter free Sms Pack
WebElement freeSmsPack = w.findElement
(By.xpath("//input[@id='sms_pack']"));
freeSmsPack.sendKeys("3000");

//6.Enter local miniutes charge
```

```
WebElement local_miniutes_charge = w.findElement
(By.xpath("//input[@id='minutes_charges']"));
local_miniutes_charge.sendKeys("1");
//7.Enter international miniutes charge
WebElement international_miniutes_charge = w.findElement
(By.xpath("//input[@id='inter_charges']"));
international_miniutes_charge.sendKeys("5");
//8.Enter sms  Charge
WebElement smsCharge = w.findElement
(By.xpath("//*[@id=\"sms_charges\"]"));
smsCharge.sendKeys("2");
//9.click on submit
WebElement Submit= w.findElement
(By.xpath("//body/section[@id='main']/div[1]/form[1]/div[1]/div[36]/ul[
1]/li[1]/input[1]"));
Submit.click();
//10.click on home
WebElement home=w.findElement
(By.xpath("//*[@id=\"main\"]/div/ul/li/a"));
 home.click();
```

6.4validate Pay bills with valid data.

```
//1.click on pay bills
WebElement paybills = w.findElement
(By.xpath("//body/section[@id='one']/div[1]/div[3]/div[2]/h3[1]/a[1]"));
paybills.click();
//2.enter customer id
WebElement id=w.findElement(By.name("customer_id"));
id.sendKeys("592188");
WebElement submit1= w.findElement
(By.xpath("//*[@id=\"main\"]/div/form/div/div[6]/input"));
submit1.click();
```

7.Guru 99 Insurance project.

7.1.Validate register form with valid data.

```
// 1.click on register
WebElement register = w.findElement(By.linkText("Register"));
register.click();
// 2.select title
Select s = new Select(w.findElement(By.id("user_title")));
s.selectByValue("Miss");
// 3.enter first name
WebElement firstName = w.findElement(By.name("firstname"));
firstName.sendKeys("Rucha");
// 4.enter UserSurname
WebElement UserSurname = w.findElement(By.id("user_surname"));
UserSurname.sendKeys("Patil");
// 5.enter PhoneNo
WebElement PhoneNo = w.findElement(By.id("user_phone"));
PhoneNo.sendKeys("7498554125");
// 6.select year
Select year = new Select(w.findElement(By.id("user_dateofbirth_1i")));
year.selectByValue("1937");
// 7.select month
Select month = new Select
(w.findElement  (By.id   ("user_dateofbirth_2i" )));
month.selectByValue("2");
// 8.select date
Select date = new Select(w.findElement(By.id("user_dateofbirth_3i")));
date.selectByValue("7");
// 9.enter UserSurname
WebElement licenceType = w.findElement(By.id("licencetype_t"));
licenceType.click();
// 10.select licencePeriod
Select licencePeriod = new   Select
 (w.findElement (By.id ("user_licenceperiod"))) ;
```

```java
licencePeriod.selectByValue("3");
// 11.select occupation
Select occupation = new Select
(w.findElement(By.id("user_licenceperiod")));
occupation.selectByValue("6");
// 12.enter Address
WebElement Address = w.findElement
(By.id("user_address_attributes_street"));
Address.sendKeys("AbC chock,goa");
// 13.enter city
WebElement city = w.findElement
(By.id("user_address_attributes_city"));
city.sendKeys("Goa");
// 14.enter country
WebElement country = w.findElement
(By.id("user_address_attributes_county"));
country.sendKeys("India");
// 15.enter post code
WebElement Postcode = w.findElement
(By.id("user_address_attributes_postcode"));
Postcode.sendKeys("457821");
// 16.enter email
WebElement Email = w.findElement
(By.id("user_user_detail_attributes_email"));
Email.sendKeys("ganesh@gmail.com");
// 17 enter password
WebElement Password = w.findElement
(By.id("user_user_detail_attributes_password"));
Password.sendKeys("ganesh@123");
// 18 enter confirm password
WebElement confirm_password = w.findElement
(By.id("user_user_detail_attributes_password_confirmation"));
confirm_password.sendKeys("ganesh@123");
// 19.click on submit
WebElement submit = w.findElement(By.name("submit"));
```

```
submit.click();
```

7.2.validate login with valid data.

```
// 1.enter email
WebElement Email1 = w.findElement(By.id("email"));
Email1.sendKeys("ganesh@gmail.com");
// 2.enter password
WebElement Password2 = w.findElement(By.id("password"));
Password2.sendKeys("ganesh@123");
// 3.click on submit
WebElement sumbit2 = w.findElement(By.name("submit"));
sumbit2.click();
```

7.3.validate request quotation with valid data.

```
// 1.click on request quotation
WebElement Request_Quotation = w.findElement(By.linkText("Request
Quotation"));
Request_Quotation.click();
// 2.select break down
Select a = new
Select(w.findElement(By.id("quotation_breakdowncover")));
a.selectByValue("No cover");
// 3.click on wind screen repair
WebElement windscreenrepair = w.findElement
(By.xpath("//input[@id='quotation_windscreenrepair_f']"));
windscreenrepair.click();
// 4.enter email
WebElement incidents = w.findElement(By.name("incidents"));
incidents.sendKeys("Hit by car");
// 5.enter registration no
WebElement registration = w.findElement
(By.id("quotation_vehicle_attributes_registration"));
registration.sendKeys("MH12ab8542");
```

```java
// 6.enter mileage
WebElement mileage = w.findElement
(By.id("quotation_vehicle_attributes_mileage"));
mileage.sendKeys("30");
// 7.Enter vehicle value
WebElement vehicle_value = w.findElement
(By.id("quotation_vehicle_attributes_value"));
vehicle_value.sendKeys("75000");
// 8.select year
Select year1 = new Select
(w.findElement(By.id("quotation_vehicle_attributes_policystart_1i")));
year1.selectByValue("2015");
// 9.select month
Select month1 = new Select
(w.findElement(By.id("quotation_vehicle_attributes_policystart_2i")));
month1.selectByValue("2");
// 10.select date
Select date1 = new Select
(w.findElement(By.id("quotation_vehicle_attributes_policystart_3i")));
date1.selectByValue("15");
// 11.click on Save Quotation
WebElement Save_Quotation = w.findElemen
t(By.xpath("//body/div[3]/div[1]/div[2]/form[1]/div[8]/input[3]"));
Save_Quotation.click();
```

7.4. validate retrieve quotation with valid data.

```java
// 1.click on retrieve quotation
WebElement retrieve_Quotation = w.findElement
(By.xpath(" //a[@id='ui-id-3']"));
retrieve_Quotation.click();
// 2.enter id
WebElement id = w.findElement(By.name("id"));
id.sendKeys("9696");
// 3.click on
```

```java
WebElement retrieve = w.findElement(By.id("getquote"));
retrieve.click();
```

7.5 Validate profile button and print all text.
```java
//1.click on profile
WebElement profile = w.findElement(By.xpath("//a[@id='ui-id-4']"));
profile.click();
System.out.println("Prfiles text field");
//2.click on each text and print .
WebElement text1 =
w.findElement(By.xpath("//strong[contains(text(),'Title:')]"));
String c=text1.getText();
System.out.println(c);
WebElement text2 =
w.findElement(By.xpath("//strong[contains(text(),'Firstname:')]"));
String d=text2.getText();
System.out.println(d);
WebElement text3 =
w.findElement(By.xpath("//strong[contains(text(),'Surname:')]"));
String e=text3.getText();
System.out.println(e);
WebElement text4 =
w.findElement(By.xpath("//strong[contains(text(),'Phone:')]"));
String f=text4.getText();
System.out.println(f);
WebElement text5 =
w.findElement(By.xpath("//strong[contains(text(),'Dataofbirth:')]"));
String g=text5.getText();
System.out.println(g);
WebElement text6 =
w.findElement(By.xpath("//strong[contains(text(),'License type:')]"));
String h=text6.getText();
System.out.println(h);
WebElement text7 =
w.findElement(By.xpath("//strong[contains(text(),'License type:')]"));
```

```java
String i=text7.getText();
System.out.println(i);
WebElement text8 =
w.findElement(By.xpath("//strong[contains(text(),'Occupation:')]"));
String j=text8.getText();
System.out.println(j);
WebElement text9 =
w.findElement(By.xpath("//strong[contains(text(),'Driver History:')]"));
String k=text9.getText();
System.out.println(k);
WebElement text10 =
w.findElement(By.xpath("//p[contains(text(),'ADDRESS:')]"));
String l=text10.getText();
System.out.println(l);
```

7.6validate edit profile with valid data.

```java
// 1.click on edit profile
WebElement edit_profile = w.findElement
(By.xpath("//a[@id='ui-id-5']"));
edit_profile.click();
// 2.select title
Select t1 = new Select(w.findElement(By.id("user_title")));
t1.selectByValue("Miss");
// 3.enter UserSurname
WebElement UserSurname1 = w.findElement(By.id("user_surname"));
UserSurname1.sendKeys("Patil");
// 4.enter first name
WebElement firstName1 = w.findElement(By.id("user_firstname"));
firstName1.sendKeys("Rucha");
// 5.enter PhoneNo
WebElement PhoneNo1 = w.findElement(By.id("user_phone"));
PhoneNo1.sendKeys("7498551234");
// 6.select year
```

```java
Select year2 = new Select
(w.findElement(By.id("user_dateofbirth_1i")));
year2.selectByValue("1992");
// 7.select month
Select month2 = new Select
(w.findElement(By.id("user_dateofbirth_2i")));
month2.selectByValue("7");
// 8.select date
Select date2 = new Select
(w.findElement(By.id("user_dateofbirth_3i")));
date2.selectByValue("1");
// 9.enter Address
WebElement Address1 = w.findElement
(By.id("user_address_attributes_street"));
Address1.sendKeys("Z bridge,pune");
// 10.enter city
WebElement city1 = w.findElement
(By.id("user_address_attributes_city"));
city1.sendKeys("Pune");
// 11.enter country
WebElement country1 = w.findElement
(By.id("user_address_attributes_county"));
country1.sendKeys("India");
// 12.enter post code
WebElement Postcode1 = w.findElement
(By.id("user_address_attributes_postcode"));
Postcode1.sendKeys("457821");
WebElement edit = w.findElement
(By.xpath("//*[@id=\"edit_user_\"]/div[14]/input"));
edit.click();
```

TestNg.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
<test thread-count="5" name="Test">
<classes>
<class name="TestCases.TC02_Guru99_New_Demo_Tour_website" />
<class name="TestCases.TC01_Guru99_Browser_Action" />
<class name="TestCases.TC03_Guru99_Payment_Gateway_Project" />
<class name="TestCases.TC04_Guru99_Telecom_Project" />

<class name="TestCases.TC05_Guru99_Insurance_Project" />
</classes>
</test> <!-- Test -->
</suite> <!-- Suite -->
```