**Home Assignment – Test data generation**

**1-Feature file and Test data Selected – 3 records**

Feature: Date of Journey Selection

Scenario Outline: Select Date of Journey

Given I am on the date selection page

When I click on the "Date of Journey" field

And I verify the default date is "13 Sep, 2025"

And I click on the "<button>" button

Then I should see the updated date of journey

Examples:

| button |

| Tomorrow |

| Day After |

Scenario Outline: Verify Date of Journey Update

Given I am on the date selection page

When I click on the "Date of Journey" field

And I verify the default date is "13 Sep, 2025"

And I click on the "<button>" button

Then I should see the date updated to "<new\_date>"

Examples:

| button | new\_date |

| Tomorrow | 14 Sep, 2025 |

| Day After | 15 Sep, 2025 |

{

"testData": [

{

"button": "Tomorrow",

"new\_date": "14 Sep, 2025",

"default\_date": "13 Sep, 2025",

"expectedResult": "success"

},

{

"button": "Day After",

"new\_date": "15 Sep, 2025",

"default\_date": "13 Sep, 2025",

"expectedResult": "success"

},

{

"button": "Invalid Button",

"new\_date": "",

"default\_date": "13 Sep, 2025",

"expectedResult": "failure"

}

]

}

**2.Feature file and Test data selection - 2 testdata**

Feature: Free Cancellation Toggle

Scenario Outline: Toggle Free Cancellation

Given I am on the booking page

When I see the Free Cancellation toggle is "<toggle\_state>"

And I toggle the Free Cancellation switch

Then I should see the Free Cancellation toggle is "<expected\_toggle\_state>"

And I should see the cancellation fee as "<cancellation\_fee>"

And I should see the refund type as "<refund\_type>"

Examples:

| toggle\_state | expected\_toggle\_state | cancellation\_fee | refund\_type |

| off | on | ₹0 | Instant full fare refund |

| on | off | ₹0 | Instant full fare refund |

Scenario Outline: Verify Free Cancellation Text

Given I am on the booking page

When I see the Free Cancellation toggle

Then I should see the text "Free Cancellation"

And I should see the text "₹0 cancellation fee"

And I should see the text "Instant full fare refund"

Examples:

| |

| |

Scenario Outline: Verify Toggle Switch

Given I am on the booking page

When I toggle the Free Cancellation switch

Then I should see the aria-checked attribute as "<aria\_checked>"

Examples:

| aria\_checked |

| true |

| false |

{

"testData": [

{

"toggle\_state": "off",

"expected\_toggle\_state": "on",

"cancellation\_fee": "₹0",

"refund\_type": "Instant full fare refund",

"aria\_checked": "true",

"region": "south\_india",

"booking\_page": "https://example.com/booking",

"username": "rajkumar.s",

"password": "Test@123",

"email": "raj.kumar@testleaf.com",

"mobile": "9876543210",

"expectedResult": "success"

},

{

"toggle\_state": "on",

"expected\_toggle\_state": "off",

"cancellation\_fee": "₹0",

"refund\_type": "Instant full fare refund",

"aria\_checked": "false",

"region": "south\_india",

"booking\_page": "https://example.com/booking",

"username": "invaliduser",

"password": "Invalid@123",

"email": "invalid.user@testleaf.com",

"mobile": "1234567890",

"expectedResult": "failure"

}

]

}

**3. Feature file, page class and Test data – record 2**

Feature: Free Cancellation Toggle

Scenario Outline: Toggle Free Cancellation

Given I am on the booking page

When I see the Free Cancellation toggle is "<toggle\_state>"

And I toggle the Free Cancellation switch

Then I should see the Free Cancellation toggle is "<expected\_toggle\_state>"

And I should see the cancellation fee as "<cancellation\_fee>"

And I should see the refund type as "<refund\_type>"

Examples:

| toggle\_state | expected\_toggle\_state | cancellation\_fee | refund\_type |

| off | on | ₹0 | Instant full fare refund |

| on | off | ₹0 | Instant full fare refund |

Scenario Outline: Verify Free Cancellation Text

Given I am on the booking page

When I see the Free Cancellation toggle

Then I should see the text "Free Cancellation"

And I should see the text "₹0 cancellation fee"

And I should see the text "Instant full fare refund"

Examples:

| |

| |

Scenario Outline: Verify Toggle Switch

Given I am on the booking page

When I toggle the Free Cancellation switch

Then I should see the aria-checked attribute as "<aria\_checked>"

Examples:

| aria\_checked |

| true |

| false |

{

"testData": [

{

"toggle\_state": "off",

"expected\_toggle\_state": "on",

"cancellation\_fee": "₹0",

"refund\_type": "Instant full fare refund",

"aria\_checked": "true",

"region": "south\_india",

"booking\_page": "https://example.com/booking",

"username": "rajkumar.s",

"password": "Test@123",

"email": "raj.kumar@testleaf.com",

"mobile": "9876543210",

"expectedResult": "success"

},

{

"toggle\_state": "on",

"expected\_toggle\_state": "off",

"cancellation\_fee": "₹0",

"refund\_type": "Instant full fare refund",

"aria\_checked": "false",

"region": "south\_india",

"booking\_page": "https://example.com/booking",

"username": "invaliduser",

"password": "Invalid@123",

"email": "invalid.user@testleaf.com",

"mobile": "1234567890",

"expectedResult": "failure"

}

]

}

package com.testleaf.pages;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

/\*\*

\* Page Object for Feature Toggle Component Page

\*

\* @author [Your Name]

\*/

public class FeatureTogglePage {

private WebDriver driver;

/\*\*

\* Constructor to initialize the WebDriver

\*

\* @param driver the WebDriver instance

\*/

public FeatureTogglePage(WebDriver driver) {

this.driver = driver;

}

/\*\*

\* Gets the feature toggle container element

\*

\* @return the feature toggle container element

\*/

public WebElement getFeatureToggleContainer() {

return driver.findElement(By.className("featureToggleContainer\_\_\_af3c5c"));

}

/\*\*

\* Gets the image wrapper element

\*

\* @return the image wrapper element

\*/

public WebElement getImageWrapper() {

return driver.findElement(By.className("imageWrapper\_\_\_9564f2"));

}

/\*\*

\* Gets the text wrapper element

\*

\* @return the text wrapper element

\*/

public WebElement getTextWrapper() {

return driver.findElement(By.className("textWrapper\_\_\_8a8769"));

}

/\*\*

\* Gets the free cancellation text element

\*

\* @return the free cancellation text element

\*/

public WebElement getFreeCancellationText() {

return driver.findElement(By.className("text\_\_\_3a6662"));

}

/\*\*

\* Gets the cancellation fee text element

\*

\* @return the cancellation fee text element

\*/

public WebElement getCancellationFeeText() {

return driver.findElement(By.className("linkText\_\_\_3257df"));

}

/\*\*

\* Gets the instant full fare refund text element

\*

\* @return the instant full fare refund text element

\*/

public WebElement getInstantFullFareRefundText() {

return driver.findElement(By.className("secondText\_\_\_04f23f"));

}

/\*\*

\* Gets the switch input element

\*

\* @return the switch input element

\*/

public WebElement getSwitchInput() {

return driver.findElement(By.id("switch"));

}

/\*\*

\* Gets the switch label element

\*

\* @return the switch label element

\*/

public WebElement getSwitchLabel() {

return driver.findElement(By.className("switchLabel\_\_\_59e04b"));

}

/\*\*

\* Checks if the feature toggle is enabled

\*

\* @return true if the feature toggle is enabled, false otherwise

\*/

public boolean isFeatureToggleEnabled() {

return getFeatureToggleContainer().getAttribute("aria-checked").equals("true");

}

/\*\*

\* Toggles the feature toggle

\*/

public void toggleFeatureToggle() {

getSwitchInput().click();

}

}

4.Feature file,Page class,Test data – 3 records – Redbus

Feature: Date of Journey Selection

Scenario Outline: Select Date of Journey

Given I am on the date selection page

When I click on the "Date of Journey" field

And I verify the default date is "13 Sep, 2025"

And I click on the "<button>" button to change the date

Then I should see the updated date of journey

Examples:

| button |

| Tomorrow |

| Day After |

Scenario Outline: Verify Date of Journey Update

Given I am on the date selection page

When I click on the "Date of Journey" field

And I verify the default date is "13 Sep, 2025"

And I click on the "<button>" button to change the date

Then I should see the date updated to "<new\_date>"

Examples:

| button | new\_date |

| Tomorrow | 14 Sep, 2025|

| Day After | 15 Sep, 2025|

package com.testleaf.pages;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

/\*\*

\* Page Object for Date Wrapper Component

\*

\* @author [Your Name]

\*/

public class DateWrapperPage {

private WebDriver driver;

/\*\*

\* Constructor to initialize the WebDriver

\*

\* @param driver the WebDriver instance

\*/

public DateWrapperPage(WebDriver driver) {

this.driver = driver;

}

/\*\*

\* Gets the date of journey element

\*

\* @return the date of journey element

\*/

public WebElement getDateOfJourneyElement() {

return driver.findElement(By.className("doj\_\_\_ac4a4c"));

}

/\*\*

\* Gets the date label element

\*

\* @return the date label element

\*/

public WebElement getDateLabelElement() {

return driver.findElement(By.className("dateLabel\_\_\_123d47"));

}

/\*\*

\* Gets the tomorrow button element

\*

\* @return the tomorrow button element

\*/

public WebElement getTomorrowButtonElement() {

return driver.findElement(By.xpath("//button[text()='Tomorrow']"));

}

/\*\*

\* Gets the day after button element

\*

\* @return the day after button element

\*/

public WebElement getDayAfterButtonElement() {

return driver.findElement(By.xpath("//button[text()='Day After']"));

}

/\*\*

\* Gets the date input wrapper element

\*

\* @return the date input wrapper element

\*/

public WebElement getDateInputWrapperElement() {

return driver.findElement(By.className("dateInputWrapper\_\_\_516ae9"));

}

/\*\*

\* Gets the date of journey text

\*

\* @return the date of journey text

\*/

public String getDateOfJourneyText() {

return getDateOfJourneyElement().getText();

}

/\*\*

\* Gets the date label text

\*

\* @return the date label text

\*/

public String getDateLabelText() {

return getDateLabelElement().getText();

}

/\*\*

\* Clicks on the tomorrow button

\*/

public void clickTomorrowButton() {

getTomorrowButtonElement().click();

}

/\*\*

\* Clicks on the day after button

\*/

public void clickDayAfterButton() {

getDayAfterButtonElement().click();

}

/\*\*

\* Clicks on the date input wrapper

\*/

public void clickDateInputWrapper() {

getDateInputWrapperElement().click();

}

}

{

"testData": [

{

"button": "Tomorrow",

"new\_date": "14 Sep, 2025",

"default\_date": "13 Sep, 2025",

"expectedResult": "success"

},

{

"button": "Day After",

"new\_date": "15 Sep, 2025",

"default\_date": "13 Sep, 2025",

"expectedResult": "success"

},

{

"button": "Invalid Button",

"new\_date": "",

"default\_date": "13 Sep, 2025",

"expectedResult": "failure"

}

]

}

IRCTC – Application

Feature: Travel and Tourism Page Navigation

Scenario Outline: Navigate to Travel and Tourism page

Given I am on the homepage

When I click on the "Travel & Tourism" link

Then I should see the "Travel & Tourism" page title

And I should see the "Travel & Tourism" slider content

Examples:

| link\_text | page\_title | slider\_content |

| "Travel & Tourism" | "Travel & Tourism" | "Travel & Tourism" |

Scenario Outline: Verify Travel and Tourism page elements

Given I am on the "Travel & Tourism" page

When I verify the page title is "<page\_title>"

And I verify the slider title is "<slider\_title>"

Then I should see the "<slider\_content>" on the page

Examples:

| page\_title | slider\_title | slider\_content |

| "Travel & Tourism" | "Travel & Tourism" | "Travel & Tourism" |

Scenario Outline: Click on Travel and Tourism link with different user datasets

Given I am on the homepage with user "<user\_name>" from "<user\_city>" with pincode "<user\_pincode>" and mobile number "<user\_mobile>"

When I click on the "Travel & Tourism" link

Then I should see the "Travel & Tourism" page title

Examples:

| user\_name | user\_city | user\_pincode | user\_mobile |

| "Rahul Kumar" | "Bangalore" | "560001" | "9900123456" |

| "Suresh Jain" | "Chennai" | "600001" | "9440123456" |

| "Rajesh Patel" | "Hyderabad" | "500001" | "9700123456" |

package com.testleaf.pages;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

/\*\*

\* Page Object for Travel and Tourism Page

\*

\* @author [Your Name]

\*/

public class TravelAndTourismPage {

private WebDriver driver;

/\*\*

\* Constructor to initialize the WebDriver

\*

\* @param driver the WebDriver instance

\*/

public TravelAndTourismPage(WebDriver driver) {

this.driver = driver;

}

/\*\*

\* Gets the travel and tourism link element

\*

\* @return the travel and tourism link element

\*/

public WebElement getTravelAndTourismLink() {

return driver.findElement(By.cssSelector("a[href='travel-tourism.php']"));

}

/\*\*

\* Gets the slider title element

\*

\* @return the slider title element

\*/

public WebElement getSliderTitle() {

return driver.findElement(By.cssSelector("h1.slider-title"));

}

/\*\*

\* Gets the slider title text

\*

\* @return the slider title text

\*/

public String getSliderTitleText() {

return getSliderTitle().getText();

}

/\*\*

\* Checks if the travel and tourism link is selected

\*

\* @return true if the link is selected, false otherwise

\*/

public boolean isTravelAndTourismLinkSelected() {

return getTravelAndTourismLink().getAttribute("class").contains("genai-selected");

}

/\*\*

\* Clicks on the travel and tourism link

\*/

public void clickTravelAndTourismLink() {

getTravelAndTourismLink().click();

}

}

{

"testData": [

{

"link\_text": "Travel & Tourism",

"page\_title": "Travel & Tourism",

"slider\_content": "Travel & Tourism",

"user\_name": "Rahul Kumar",

"user\_city": "Bangalore",

"user\_pincode": "560001",

"user\_mobile": "9900123456",

"expectedResult": "success"

},

{

"link\_text": "Travel & Tourism",

"page\_title": "Travel & Tourism",

"slider\_content": "Travel & Tourism",

"user\_name": "Suresh Jain",

"user\_city": "Chennai",

"user\_pincode": "600001",

"user\_mobile": "9440123456",

"expectedResult": "success"

},

{

"link\_text": "Invalid Link",

"page\_title": "Error Page",

"slider\_content": "Error Message",

"user\_name": "Rajesh Patel",

"user\_city": "Hyderabad",

"user\_pincode": "500001",

"user\_mobile": "9700123456",

"expectedResult": "failure"

}

]

}

**6.Page class and Test data Generation**

Feature: Railway Services Navigation

Scenario Outline: Navigate to railway services

Given I am on the railway homepage

When I click on "<service>" link

Then I should be redirected to the "<service>" page

Examples:

| service |

| Check PNR status |

| Live train status|

| Order Food |

| Rail Madad |

| Link Aadhaar |

Scenario Outline: Validate service page redirection

Given I am on the railway homepage

When I click on "<service>" link

Then I should see the "<service>" page title

Examples:

| service |

| Check PNR status |

| Live train status|

| Order Food |

| Rail Madad |

| Link Aadhaar |

Scenario Outline: Validate service page URL

Given I am on the railway homepage

When I click on "<service>" link

Then I should be on the "<url>" page

Examples:

| service | url |

| Check PNR status | /railways/pnr-status?from=Rail Home |

| Live train status | /railways/train-running-status?from=Rail Home |

| Order Food | https://www.ecatering.irctc.co.in/ |

| Rail Madad | https://railmadad.indianrailways.gov.in/madad/final/home.jsp|

| Link Aadhaar | /railways/irctc-adhaar-link?from=homerischips |

package com.testleaf.pages;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

/\*\*

\* Page Object for Railway Services Page

\*/

public class RailwayServicesPage {

private WebDriver driver;

/\*\*

\* Constructor to initialize the WebDriver

\* @param driver the WebDriver instance

\*/

public RailwayServicesPage(WebDriver driver) {

this.driver = driver;

}

/\*\*

\* Gets the Check PNR Status element

\* @return the Check PNR Status element

\*/

public WebElement getCheckPNRStatusElement() {

return driver.findElement(By.xpath("//div[@aria-label='Check PNR status']"));

}

/\*\*

\* Gets the Live Train Status element

\* @return the Live Train Status element

\*/

public WebElement getLiveTrainStatusElement() {

return driver.findElement(By.xpath("//div[@aria-label='Live train status']"));

}

/\*\*

\* Gets the Order Food element

\* @return the Order Food element

\*/

public WebElement getOrderFoodElement() {

return driver.findElement(By.xpath("//div[@aria-label='Order Food']"));

}

/\*\*

\* Gets the Rail Madad element

\* @return the Rail Madad element

\*/

public WebElement getRailMadadElement() {

return driver.findElement(By.xpath("//div[@aria-label='Rail Madad']"));

}

/\*\*

\* Gets the Link Aadhaar element

\* @return the Link Aadhaar element

\*/

public WebElement getLinkAadhaarElement() {

return driver.findElement(By.xpath("//div[@aria-label='Link Aadhaar']"));

}

/\*\*

\* Clicks on the Check PNR Status element

\*/

public void clickCheckPNRStatus() {

getCheckPNRStatusElement().click();

}

/\*\*

\* Clicks on the Live Train Status element

\*/

public void clickLiveTrainStatus() {

getLiveTrainStatusElement().click();

}

/\*\*

\* Clicks on the Order Food element

\*/

public void clickOrderFood() {

getOrderFoodElement().click();

}

/\*\*

\* Clicks on the Rail Madad element

\*/

public void clickRailMadad() {

getRailMadadElement().click();

}

/\*\*

\* Clicks on the Link Aadhaar element

\*/

public void clickLinkAadhaar() {

getLinkAadhaarElement().click();

}

}

{

"testData": [

{

"service": "Check PNR status",

"url": "/railways/pnr-status?from=Rail Home",

"pageTitle": "Check PNR status",

"expectedResult": "success"

},

{

"service": "Live train status",

"url": "/railways/train-running-status?from=Rail Home",

"pageTitle": "Live train status",

"expectedResult": "success"

},

{

"service": "Order Food",

"url": "https://www.ecatering.irctc.co.in/",

"pageTitle": "Order Food",

"expectedResult": "success"

},

{

"service": "Rail Madad",

"url": "https://railmadad.indianrailways.gov.in/madad/final/home.jsp",

"pageTitle": "Rail Madad",

"expectedResult": "success"

},

{

"service": "Link Aadhaar",

"url": "/railways/irctc-adhaar-link?from=homerischips",

"pageTitle": "Link Aadhaar",

"expectedResult": "failure"

}

]

}