

## Background:

PHP Travels is one of the clients with newly developed website <https://www.phptravels.net> and they want us to complete the testing and quality assurance testing on the website.

## About Client:

PHPTRAVELS providing the best and user-friendly application to our customers, with extensive tools specially for online travel business from hotels booking to flights reservation, we also provide custom web solutions and services. With over 4 years of experience phptravels.com have unquestionably won a reputation for being a trusted source, a reliable partner and an expert in the area of online travel business applications.

## Scope:

We provide services for online bookings of Hotels, Flights, Tour Packages and Cars across the world, our website is expected to work in 7 different languages namely English, Russian, Farsi, French, Turkish, Arabic and Spanish. We provide payment option in 10 different currencies namely USD, GRB, SAR, EUR, PKR, KWD, INR, JPR, CNY, TRY with multiple payment gateway options.

A User Can Book Hotels, Flights, Tour Packages and Cars either as guest or post login, user can review the services post login.

Task here is to design the test cases for below requirements and to automate the same using Java Selenium and below technologies.

- Page Object Model
- Maven
- TestNg
- Log4J
- Cucumber BDD

Priority Notation: P1 to P4 (P1 is Highest Priority P4 is Lowest Priority)

### 1. Functional Requirements

Module	Priority	Description	
1.1	P1	New Customer Registration	
1.1.1		User should be able to traverse to registration page from home page	
1.1.2		Registration form should have below validations	
		Field Name	Validations
		First Name	Cannot be blank Minimum 2 characters in field



			Maximum 15 Characters allowed No numerical values allowed
		Last Name	Optional Field
		Mobile Number	Allow only numerical values 10-digit number Cannot be blank Unique for Every User
		Email	Cannot be blank Must be a valid Email ID Unique for Every User
		Password	Minimum 6 characters Should be combination of alfa numeric values Must contain one special symbol from (@, #, \$, &, *)
		Confirm Password	Password field and confirm password should match
		Signup Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence
1.1.3		Post Successful registration user should be able to see my accounts page	
<b>1.2</b>	<b>P2</b>	<b>Existing User Login</b>	
1.2.1		User should be able to traverse to login page from home page	
1.2.2		<b>Field Name</b>	<b>Validations</b>
		Email	Cannot be blank Must be a valid Email ID
		Password	Cannot be blank
		Login Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence
1.2.3		Post Successful registration user should be able to see my accounts page	
<b>1.3</b>	<b>P3</b>	<b>User My Account Page</b>	
1.3.1		User session should be active to view this page	
1.3.2		User should be greeted with Message (Hi <First Name>)	
1.3.3		User should be able to select his preferred Language	
1.3.4		User should be able to select his preferred Payment Currency	
1.3.5		User will be able to see his previous bookings in the "Booking" section	
1.3.6		User should be able to update his profile in "My Profile" section Following fields can be edited/updated Last Name, Phone, Email, Password and Address	

		Field Name	Validations
		Last Name	Optional field No numerical values allowed
		Phone	Cannot be blank Unique for Every User
		Email	Cannot be blank Must be a valid Email ID Unique for Every User
		Password	Minimum 6 characters Should be combination of alfa numeric values Must contain one special symbol from (@, #, \$, &, *)
		Confirm Password	Password field and confirm password should match
		Address	Cannot be blank Minimum 5 characters in field Maximum 25 Characters allowed Combination of alphanumeric values No special Symbols are allowed other than (, #)
		Address 2	Optional Field Maximum 25 Characters allowed Combination of alphanumeric values No special Symbols are allowed other than (, #)
		City	Cannot be blank Maximum 20 Characters allowed No special Symbols are allowed
		State / Region	Cannot be blank Maximum 20 Characters allowed No special Symbols are allowed
		Postal / ZIP Code	Cannot be blank Only 6-digit numbers are allowed
		Country	Cannot be blank Need to be selected from drop down menu
1.3.7		"Wishlist" Section should display all wish listed TOURS of the customer	
1.3.8		My Account Page should display System Date and Time	
<b>1.4</b>	<b>P1</b>	<b>Hotel Booking (search)</b>	
1.4.1		User can book the hotel as guest user or as registered user	

1.4.2		User can search for Hotels from Home Page	
1.4.3		Hotel Search form have below mentioned validation	
		Field Name	Validations
		City / Hotel Name	Cannot be blank Maximum 20 Characters allowed No special Symbols and Numbers are allowed
		Check In	Cannot be blank Date should be entered in DD/MM/YYYY Format
		Check Out	Cannot be blank Date should be entered in DD/MM/YYYY Format
		Guest Details	User should be able to change number of guests
		Search-Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence Post successful validation search result page need to be displayed
1.5	P1	Flight Booking (search)	
1.5.1		User can book the flight as guest user or as registered user from Home Page	
1.5.2		User can search for Flights from Home Page	
1.5.3		Flight Search form have below mentioned validation	
		Field Name	Validation
		From City or Airport	Cannot be blank As soon as user enter the three letters in field related city name or airport code should be displayed
		To City or Airport	Cannot be blank As soon as user enter the three letters in field related city name or airport code should be displayed
		Date	Cannot be blank Date should be entered in DD/MM/YYYY Format
		Return Date	Optional field Date should be entered in DD/MM/YYYY Format
		Number of Passengers	User should be able to change number of passengers
		One Way / Round Trip	By default, One Way is selected

			In case of round-trip Return Date is mandatory field
		Search-Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence Post successful validation search result page need to be displayed
<b>1.6</b>	<b>P1</b>	<b>Tours (Search)</b>	
1.6.1		User can book the flight as guest user or as registered user from Home Page	
1.6.2		PHP Travels have predefined tour destination lists from which customer can select	
1.6.2		Tour Search form have below mentioned validation	
		<b>Field Name</b>	<b>Validation</b>
		Destination	Cannot be blank As soon as user enter the three letters in field related city name or airport code should be displayed
		Departure Date	Cannot be blank Date should be entered in DD/MM/YYYY Format
		Number of Guests	User should be able to change number of passengers
		Type of Tour	Cannot be blank Need to be selected from drop down menu
		Search-Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence Post successful validation search result page need to be displayed
<b>1.7</b>	<b>P1</b>	<b>Cars (Search)</b>	
1.7.1		User can book the Car as guest user or as registered user from Home Page	
1.7.2		PHP Travels have predefined City lists from which customer can select the city	
1.7.3		Car Search form has below validations	
		<b>Field Name</b>	<b>Validation</b>
		Pickup and Drop Locations	Must be same city
		From Date and Time	Cannot be blank Date should be entered in DD/MM/YYYY Format

			Time Should be entered in HH:MM Format
		To Date and Time	Cannot be blank Date should be entered in DD/MM/YYYY Format Time Should be entered in HH:MM Format
		Search-Button	All above mentioned rules need to be validated and appropriate error message should be displayed in the sequence Post successful validation search result page need to be displayed
<b>1.8</b>	<b>P2</b>	<b>Search Results Page</b>	
1.8.1		<b>Hotel Search Result Page</b>	
1.8.1.1		As per the values filled in search form user should be able to see the hotel list based on the city or with relevance to city name.	
1.8.1.2		Filter Search Panel enables user to filter the hotels list based on Star Rating Price Range Property Type Amenities	
1.8.1.3		User can modify the search using the search panel	
1.8.1.4		In case of registered user results should be displayed in the preferred language and currency.	
1.8.1.5		By Clicking on details button user will be redirected to Hotel details page for Booking.	
1.8.1.6		User can write review about the tour hotel in details page	
1.8.1.7		User can select type of room suitable for his requirement and proceed for booking	
1.8.2		<b>Flight Search Result Page</b>	
1.8.2.1		As per the values filled in search form user should be able to see the available flights list.	
1.8.2.2		In case of registered user results should be displayed in the preferred language and currency.	
1.8.2.3		Filter Search Panel enables user to filter the Flights list based on Non-Stop or Transit Refundable Filter by Airlines	
1.8.2.4		User can modify the search using the search panel	
1.8.2.5		User can modify the departure date using Dates Availability panel	



1.8.2.6		After changing the values in requirement 1.8.2.3 to 1.8.2.5 updated results should be displayed to the customer										
1.8.2.7		Every flight in search results should contain “More Details” option displayed under very flight										
1.8.2.8		Every flight in search results should contain “Book Now” button, when clicked it should redirect to booking page										
1.8.3		<b>Tour Search Result Page</b>										
1.8.3.1		As per the values filled in search form user should be able to see the available Tour Destination list based on city or country.										
1.8.3.2		In case of registered user results should be displayed in the preferred language and currency.										
1.8.3.3		Filter Search Panel enables user to filter the Flights list based on Star Rating Price Range Tour Type										
1.8.3.4		User can modify the search using the search panel										
1.8.3.5		By Clicking on details button user will be redirected to Destination details page for Booking.										
1.8.3.5.1		Details page user will be able share the details of destination on social media										
1.8.3.5.2		User can write review about the tour destination.										
1.8.3.5.3		User can add more details about the booking in “BOOKING OPTIONS” panel Can change the date of departure Mention the Number of Adults, Child, and Infants in the guest										
1.8.3.5.4		Based on the selection in requirement 1.8.3.5.3 cost of tour should be updated.										
1.9	P1	<b>Booking Module</b>										
1.9.1		<b>Hotel Booking</b>										
1.9.1.1		Guest user need to provide following details to book the hotel										
		<table><tr><th>Field Name</th><th>Validation</th></tr><tr><td>First Name</td><td>Cannot be blank Minimum 2 characters in field Maximum 15 Characters allowed No numerical values allowed</td></tr><tr><td>Last Name</td><td>Optional Field</td></tr><tr><td>Mobile Number</td><td>Allow only numerical values 10-digit number Cannot be blank Unique for Every User</td></tr><tr><td>Address</td><td>Cannot be blank Minimum 5 characters in field Maximum 25 Characters allowed</td></tr></table>	Field Name	Validation	First Name	Cannot be blank Minimum 2 characters in field Maximum 15 Characters allowed No numerical values allowed	Last Name	Optional Field	Mobile Number	Allow only numerical values 10-digit number Cannot be blank Unique for Every User	Address	Cannot be blank Minimum 5 characters in field Maximum 25 Characters allowed
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			Combination of alphanumeric values No special Symbols are allowed other than (, #)
		Country	Cannot be blank Need to be selected from drop down menu
		Additional Note	Optional Field
1.9.1.2		Existing user can Login and Book the hotel with same procedure and requirement 1.2.2	
1.9.1.3		In the "EXTRAS" section of the page customer can add additional services	
1.9.1.3		"BOOKING SUMMARY" section will display the booking summary of the customer with total amount Hotel Name check in and check out dates, Number of days Booking, Room type with cost per night.	
1.9.1.4		"BOOKING SUMMARY" section will also display total bill amount including Tax and Vat, Cost of additional Services, Extra bed, Deposit Amount	
1.9.1.5		In "COUPON CODE" section customer can add promo code to avail the discount	
1.9.1.6		User can click on confirm booking button to get the invoice	
1.9.2		<b>Flight Booking</b>	
1.9.2.1		Guest user need to provide following details to book the hotel	
		<b>Field Name</b>	<b>Validation</b>
		First Name	Cannot be blank Minimum 2 characters in field Maximum 15 Characters allowed No numerical values allowed
		Last Name	Optional Field
		Mobile Number	Allow only numerical values 10-digit number Cannot be blank Unique for Every User
		Address	Cannot be blank Minimum 5 characters in field Maximum 25 Characters allowed Combination of alphanumeric values No special Symbols are allowed other than (, #)
		Country	Cannot be blank Need to be selected from drop down menu
		Additional Note	Optional Field



1.9.2.2		Existing user can Login and Book the hotel with same procedure and requirement 1.2.2
1.9.2.3		In "PASSENGERS" section customer need to provide Traveler name, Age and Passport Number for all the passengers
1.9.2.4		In "COUPON CODE" section customer can add promo code to avail the discount
1.9.2.5		"BOOKING SUMMARY" section will also display total bill amount including Departure date and time from source, Arrival date and time to destination, Travelling Hours, Number of Passengers, VAT and TAX, Deposit Now Amount
1.9.2.6		User can click on confirm booking button to get the invoice
1.9.3		<b>Tour Booking</b>
1.9.3.1		All requirements from 1.9.2
1.9.4		<b>Car Booking</b>
1.9.4.1		All requirements from 1.9.1