

# **IT314 - Software Engineering**

## **Black Box Testing**

### **1.Log in :**

- VC1 : Valid Email and Password
- VC2 : Invalid Email
- VC3 : Incorrect Password
- VC4 : Password must contain at least 8 characters
- VC5 : Empty Fields
- VC6 : Case Sensitivity in the fields.

### **Assumptions :**

- “[abc1@gmail.com](mailto:abc1@gmail.com)” is a registered user.
- “[xyz@gmail.com](mailto:xyz@gmail.com)” is not a registered user.

Email ID	Password	Displayed Output	Expected Output	Constraints Covered	Reamarks
abc1@gmail.com	12345678	User logged in successfully.	User logged in successfully.	VC1	Email and password are valid.
xyz@gmail.com	12345678	User not found.	User not found.	VC1	Email ID is not registered.
abc1@g.com	12345678	User not found.	User not found.	VC2	Invalid email.
abc1@gmail.com	12345689	Incorrect password.	Incorrect password.	VC3	Invalid password.
abc1@gmail.com	123456	Password must contain at least 8 characters.	Password must contain at least 8 characters.	VC4	Password cannot be less than 8 characters.
-	-	(i)email is not	(i)email is not	VC2, VC3	Email and

		valid.(ii)password must contain 8 characters.	valid.(ii)password must contain 8 characters.		password cannot be empty.
abc1@gmail.com	xyz@123	User logged in successfully.	User logged in successfully.	VC1	Email and password are valid.
abc1@gmail.com	XyZ@123	Incorrect password.	Incorrect password.	VC3, VC6	Password is case sensitive.
abc1@gmail.com	-	Password cannot be empty.	Password cannot be empty.	VC5	Password field is empty.
-	12345678	Email cannot be empty.	Email cannot be empty.	VC5	Email field is empty.
ABC@gmail.com	12345678	User not found.	User not found.	VC2, VC6	Email is case-sensitive.
abc1@gmail@com	12345678	Email is not valid.	Invalid email format.	VC2	Email has invalid format.
abc1gmail.com	12345678	Email is not valid.	Email is not valid.	VC2	Missing '@' in email.
abc1@gmail._com	12345678	Email is not valid.	Email is not valid.	VC2	Email has space in between.
abc1@gmail_.com	12345678	Email is not valid.	Email is not valid.	VC2	Email has space in between.
abc1@gmail.com	1234 5678	Incorrect password.	Incorrect password.	VC3	Password has space in between.

## 2.Sign Up :

- VC1 : All fields are valid.
- VC2 : Email must be unique.
- VC3 : Username cannot be empty.
- VC4 : Name cannot be empty.
- VC5 : Email cannot be empty.
- VC6 : Password cannot be empty.
- VC7 : Password must contain at least 8 characters.
- VC8 : "Password" and "Repeat your password" fields must match.
- VC9 : "Terms of Service" checkbox must be checked.
- VC10 : Invalid email(format).

User name	Name	Email ID	Pass word	Repeat Password	Terms checked	Displaye d Output	Expected Output	Constraints Covered	Reamark
user1	John	user1@gmail.com	pass1234	pass1234	Checked	User registered successfully.	User registered successfully.	VC1	All fields are valid
user2	John	user1@gmail.com	pass1234	pass1234	Checked	User already exist.	User already exist.	VC2	Email is already registered .
-	John	user1@gmail.com	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC3	Username cannot be empty.
user1	-	user1@gmail.com	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC4	Name cannot be empty.
user1	John	-	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC5	Email cannot be empty.
user1	John	user1@gmail	-	-	Checked	Signup failed.	Signup failed.	VC6	Password cannot be

		ail.co m							empty.
user1	John	user1 @gm ail.co m	pass 12	pass12	Checked	Signup failed.	Signup failed.	VC7	Password must contain at least 8 character.
user1	John	user1 @gm ail.co m	pass 1234	pass12	Checked	Signup failed.	Signup failed.	VC8	Password and Repeat password must match.
user1	John	user1 @gm ail.co m	pass 1234	pass1234	Uncheck ed	Signup failed.	Signup failed.	VC9	Terms of service checkbox must be checked.
user1	John	user1 gmail. com	pass 1234	pass1234	Checked	Signup failed.	Signup failed.	VC10	Invalid email format.
-	-	-	-	-	-	Signup failed.	Signup failed.	VC3, VC4, VC5, VC6, VC8, VC9	All fields left empty.
user1	John	.user @gm ail.co m	pass 1234	pass1234	Checked	User registered successful ly.	User registered successful ly.	VC1	Email starts with a special character.
user_ 1	John	user1 @g.c om	pass 1234	pass1234	Checked	User registered successful ly.	User registered successful ly.	VC1	Usenam e includes underscor e.
-	-	user1 @g.c om	pass 1234	pass1234	Checked	Signup failed.	Signup failed.	VC3, VC4	Usenam e and Name cannot be empty.
-	John	-	pass	pass1234	Checked	Signup	Signup	VC3, VC5	Usenam

			1234			failed.	failed.		e and email cannot be empty.
-	John	user1@g.com	-	pass1234	Checked	Signup failed.	Signup failed.	VC3, VC6, VC7, VC8	Username cannot be empty. Password cannot be empty and must match the repeat password.
-	John	user1@g.com	pass1234	-	Checked	Signup failed.	Signup failed.	VC3, VC6, VC7, VC8	Username cannot be empty. Password cannot be empty and must match the repeat password.
-	John	user1@g.com	pass1234	pass1234	Unchecked	Signup failed.	Signup failed.	VC3, VC9	Username cannot be empty and Terms of service must be checked.
user1	John	-	-	-	Checked	Signup failed.	Signup failed.	VC5, VC6	Empty fields.
-	-	user1@g.com	pass1234	pass1234	Checked	User already exist.	Signup failed.	VC3, VC4, VC5	Email already exists and empty fields.

-	-	-	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC3, VC4, VC5	Empty fields.
user1	John	user1@g.com	p@ssw0rd#	p@ssw0rd#	Checked	User registered successfully.	User registered successfully.	VC1	Valid password with special characters.
user2	Pohn	user2@p.com	pass1234	pass1234	Checked	User registered successfully.	User registered successfully.	VC1	This type of email format is also valid.
user1	John	user1@.com	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC10	Email format is not valid.
.user1	.John	.user1@N.com	.12345678	.12345678	Checked	User registered successfully.	User registered successfully.	VC1	All fields starting with a special character.
user1	John	user1@g.com	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC10	Email format is not valid. (Spaces in between)
user1	John	user1@g.com	pass1234	pass1234	Checked	Signup failed.	Signup failed.	VC10	Email format is not valid. (Spaces in between)
<<<>>	<<<>>	<<<>>@g.com	<<<<>>>>	<<<<>>>>	Checked	User registered successfully.	User registered successfully.	VC1	All input fields contain special characters only.

### 3.Search trip :

- VC1 : All inputs are valid.
- VC2 : The destination entered is not in the database.
- VC3 : Destination field cannot be empty.
- VC4 : Budget cannot be negative.
- VC5 : Budget field cannot be empty.
- VC6 : Budget field must contain only numeric values.
- VC7 : Days field must contain only numeric values.
- VC8 : Days field cannot be empty.
- VC9 : Budget and Days should accept and correctly handle decimal values.

### Assumptions :

- 'Diu, India', 8000\$, 3 days is already generated trip by the other users or the administrator.
- If all the fields are correctly filled and they match the generated trip then we will receive the exact trip.

Destination	Budget(\$)	Days	Displayed Output	Expected Output	Constraints Covered	Remarks
Diu, India	8000	3	Trip found: Diu, India, Budget: 8000, Days: 3	Trip found: Diu, India, Budget: 8000, Days: 3	VC1	All inputs are valid.
-	-	-	All the trips that are already generated.	All the trips that are already generated.	VC2, VC3, VC5, VC8	All the input fields are empty.
Diu, India	-	-	Already generated trip to Diu, India	Already generated trip to Diu, India	VC5, VC8	Both the budget and days field are empty.
-	8000	-	All the trips that are already generated.	No results found.	VC2, VC3, VC8	Both the destination and days field are empty.
-	-	5	All the trips that are already	No results found.	VC2, VC3, VC5	Both the destination and

			generated.			budget field are empty.
Goa, India	-8000	3	No results found.	No results found.	VC2, VC4	Budget is negative.
Goa, India	Eight thousand	3	No results found.	No results found.	VC2, VC6	Budget contains only numeric values.
Goa, India	5000	Three	No results found.	No results found.	VC2, VC7	Days contain only numeric values.
Diu, India	8000.00	3	Trip found: Diu, India, Budget: 8000, Days: 3	Trip found: Diu, India, Budget: 8000, Days: 3	VC9	Decimal value handles correctly.
Goa, India	7000	3.5	No results found.	No results found.	VC2, VC9	Decimal value handles correctly.
Goa, India	8000	-	No results found.	No results found.	VC2, VC8	Days field cannot be empty.
Goa, India	-	4	No results found.	No results found.	VC2, VC5	Budget field cannot be empty.
-	7000	4	All the trips that are already generated.	No results found.	VC2, VC3	Destination field cannot be empty.
Diu, India	7000	0	No results found.	No results found.	VC7	Days value invalid (zero).
Diu, India	7000	-3	No results found.	No results found.	VC7	Days value invalid (negative).



#### 4. Create trip :

- VC1 : Destination cannot be empty.
- VC2 : Destination must only contain alphabetical characters
- VC3 : Activities field can be empty.
- VC4 : Activities field must only contain valid alphabetical characters.
- VC5 : Budget is required and must be one of the predefined options (Budget-Friendly, Moderate, Luxury).
- VC6 : All the input fields are valid.

Destination	Activity	Budget	Displayed Output	Expected Output	Constraints Covered	Remarks
Goa	Beach	Luxury	Trip generated with luxury options for Goa, including beach.	Trip generated with luxury options for Goa, including beach.	VC6	Valid inputs for all fields.
-	Hiking	Budget Friendly	Not able to generate the trip.	Not able to generate the trip.	VC1	Destination field is required.
12345	Hiking	Moderate	Not able to generate the trip.	Not able to generate the trip.	VC2	Destination must be alphabetic.
Delhi	-	Luxury	Not able to generate the trip.	Not able to generate the trip.	VC3	Activity field is required.
Delhi	12345	Budget Friendly	Not able to generate the trip.	Not able to generate the trip.	VC4	Activity cannot be numeric.
Mumbai	Shopping	-	Not able to generate the trip.	Not able to generate the trip.	VC5	Budget field is required.
Mumbai	!@#\$%&	Moderate	Not able to generate the trip.	Not able to generate the trip.	VC4	Activity must contain valid

						characters .
Mumbai	Beach, Dance classes	Budget friendly	Trip generated with budget friendly options for mumbai, including all specified activities.	Trip generated with budget friendly options for mumbai, including all specified activities.	VC1, VC3, VC5	Handles multiple valid activities.
-	-	Luxury	Not able to generate the trip.	Not able to generate the trip.	VC1, VC3	Both destination and activity cannot be empty.
-	Hiking	-	Not able to generate the trip.	Not able to generate the trip.	VC1, VC5	Both destination and budget cannot be empty.
Somnath	-	-	Not able to generate the trip.	Not able to generate the trip.	VC3, VC5	Both activity and budget cannot be empty.

## 5. Update profile :

- VC1 : All fields (Phone Number, Address, and Gender) are mandatory for profile updates.
- VC2 : Phone number must be numeric and start with+91.
- VC3 : Phone number contains exactly 10 digits after the country code.
- VC4 : Phone field number cannot be empty.
- VC5 : Address must contain valid characters.
- VC6 : Address field cannot be empty.
- VC7 : Gender must be selected from the predefined options.
- VC8 : Gender field cannot be empty or invalid.

Phone Number	Address	Gender	Displayed Output	Expected Output	Constraints Covered	Remarks
+919687256949	Rajkot, Gujarat	Male	Profile updated successfully.	Profile updated successfully.	VC1	Valid case for all fields.
-	Rajkot, Gujarat	Male	Not able to update the profile.	Not able to update the profile.	VC4	Missing phone number.
+916758	Rajkot, Gujarat	Male	Not able to update the profile.	Not able to update the profile.	VC3	Incomplete phone number.
+919687256949	-	Male	Not able to update the profile.	Not able to update the profile.	VC6	Missing address.
+919687256949	Rajkot, Gujarat	-	Not able to update the profile.	Not able to update the profile.	VC8	Missing gender.
+91abcdefghij	Rajkot, Gujarat	Male	Not able to update the profile.	Not able to update the profile.	VC2	Invalid phone number format.
+919687256949	-	-	Not able to update the	Not able to update	VC6, VC8	Address and Gender both

			profile.	the profile.		cannot be empty.
-	Rajkot, Gujarat	-	Not able to update the profile.	Not able to update the profile.	VC4, VC8	Phone number and Gender both cannot be empty.
-	-	Male	Not able to update the profile.	Not able to update the profile.	VC4, VC6	Phone number and address both cannot be empty.

## 6. Review :

- VC1 : All fields (Name, Email, Comment, and Rating) are mandatory for review submission.
- VC2 : Name field cannot be empty and must contain valid characters.
- VC3 : Email must be in a valid email format.
- VC4 : Email field cannot be empty.
- VC5 : Comment field cannot be empty and must contain valid characters.

Name	Email	Comment	Rating	Displayed Output	Expected Output	Constraints Covered	Remarks
Om	om@d.com	Good	5	Review submitted successfully.	Review submitted successfully.	VC1	Valid case for all fields.
Om	om@d.com	Good	-	Review submitted successfully.	Please fill out the field.	VC6	Rating field should not be empty.
Om	om@d.com	-	5	Please fill out the field.	Please fill out the field.	VC5	Comment field cannot be empty.
Om	-	Good	5	Please fill out the field.	Please fill out the field.	VC4	Email field cannot be empty.
-	om@d.com	Good	5	Please fill out the field.	Please fill out the field.	VC2	Name field cannot be empty.
Om	om@d.com	-	-	Please fill out the field.	Please fill out the field.	VC5, VC6	Both comment and rating fields cannot be empty.
Om	-	Good	-	Please fill	Please fill	VC4, VC6	Both

				out the field.	out the field.		email and rating fields cannot be empty.
Om	-	-	5	Please fill out the field.	Please fill out the field.	VC4, VC5	Both email and comment fields cannot be empty.
-	-	Good	5	Please fill out the field.	Please fill out the field.	VC2, VC4	Both name and email fields cannot be empty.
Om	Invalid email format	Good	5	Not able to submit the review.	Not able to submit the review.	VC3	Invalid email format.
-	om@d.com	-	5	Please fill out the field.	Please fill out the field.	VC2, VC5	Both name and comment fields cannot be empty.