

Test Case Report

Use Cases

| Feature | Conditions | Valid Partitions | Invalid Partitions | Valid Boundaries | Invalid Boundaries |
|----------------------------|---|--|---|---|--|
| User Registration | Full Name | Alphabetic characters only (1-50 chars) | Empty or non-alphabetic characters (e.g. "12345" and "John#Doe") | 1 character | 51 character |
| User Registration | Email Address | Standard email format (e.g. user@example.com) | Empty or invalid formats (e.g. "user@.com" and "user@domain") | n/a | n/a |
| User Registration | Age | Integer 18-100 | < 18 and > 100 | 18 | 101 |
| User Registration | Password | At least 8 chars, 1 uppercase letter, 1 number | < 8 chars, no uppercase, no number | 8 characters | 7 characters |
| User Registration | Confirm Password | Must match Password and not be empty | Empty or does not match Password | n/a | n/a |
| User Registration | Credit Card Info | Exactly 16 numeric digits | Empty, non-numeric, less/more than 16 digits | 16 digits | 15 and 17 digits |
| Event Selection | Browse and Select Events | Event selected | None | None | None |
| Payment Processing | Secure Processing | Payment processed successfully | Failure or rejection | None | None |
| Email Confirmation | Receive Confirmation Email | Email received | None | None | None |
| Profile Management | Manage Profile | Profile displayed and editable | None | None | None |
| Password Recovery | Request Reset Link | Reset link sent | None | None | None |
| Event Details Page | View Event Details | Event information displayed | None | None | None |
| User Roles | Access Levels | Admin and User roles have different access | None | None | None |
| Search Functionality | User selects search option and inputs data | Valid date format (MM/DD/YYYY), Location "d 50 c h", Valid category | Invalid date format, Empty location, Category with spaces or invalid characters | Date format (MM/DD/YYYY), Location = 50 characters, Category name length | Date with invalid month/day, Location > 50 characters, Invalid category characters |
| User Reviews and Ratings | User rates experience after event attendance | Rating 1-5 stars, Review "d 200 c h a r a c t e r s" (optional) | Rating < 1 or > 5, Review > 200 characters | Rating = 1, Review = empty string | Rating = 0, Rating = 6, Review > 200 characters |
| Notification System | User receives notifications for updates | Notifications received as per event changes | No notifications received | Notifications sent as expected | Notifications not sent |
| Event Cancellation | User cancels event registration within time frame | Cancellation > 10 days = full refund, 5-10 days = 50% refund, < 5 days = no refund | Cancellation > event date, Invalid cancellation requests | Cancellation exactly 10 days before event, Cancellation 5 days before event | Cancellation < 0 days, Invalid cancellation requests |
| Promotional Discount Codes | User applies discount code during | Valid 4-digit numeric discount code | Non-numeric code, Code not 4 digits | Code = 1000, Code = 9999 | Code = 100, Code = 99999 |

| Feature | Conditions | Valid Partitions | Invalid Partitions | Valid Boundaries | Invalid Boundaries |
|-----------------------------------|---|--|--|---|---|
| payment | | | | | |
| Mobile Responsiveness | System accessible on mobile devices | Fully responsive design | Design not responsive | Design fits all mobile screens | Design fails on mobile view |
| Data Export | Administrator exports data | Valid CSV or Excel format | Invalid format | Export as CSV, Export as Excel | Export with incorrect file type |
| Session Management | User inactive for specified time | User logged out after inactivity | User remains logged in | Timeout = specified period | Timeout = 0, Timeout = negative value |
| Multi-Language Support | System supports multiple languages | Valid language options available | Invalid language input | Languages supported = English, Spanish, etc. | Language not supported |
| Group Registration Discounts | User registers multiple participants | 1-5 participants = no discount, 6-10 = 10%, 11+ = 15% | Participants < 1, Non-numeric participant count | Participants = 5, Participants = 10 | Participants = 0, Participants = 15 |
| Early Bird Registration | User registers at least 30 days before event | Registration date (Event date - 30 days) | Registration date < (Event date - 30 days) | Registration date = (Event date - 30 days) | Registration date < 0 days before event |
| Promotional Code Validation | User enters promotional code during checkout | Valid promotional code, Usage limits met, Not expired | Invalid promotional code, Usage limit exceeded, Expired code | Code valid within usage limits | Code not found in the database, Expired code |
| Payment Plan Options | User selects a payment plan for a high-cost event | Valid payment plans: full, two installments, three installments | Invalid payment plans or non-high-cost events | Plan selected = full payment, Plan selected = two installments | Plan selected = nonexistent option, Plan selected = invalid amount |
| Event Bundle Registration | User registers for multiple events | Register for 2 events, 3 events, or 4+ events for discounts | Register for 1 event, Invalid event counts | Registering 2 events = 5% discount, 3 events = 10%, 4+ events = 15% | Registering 0 events, Invalid event registration |
| Customizable Registration Options | User selects additional options | Valid combinations of options leading to discounts | Invalid combinations or unsupported options | Combination selected = main event + workshop option = 10% discount | Combination selected = unsupported options, Combination does not trigger discount |
| Referral Program | User enters a referral code during registration | Valid referral code used by new user, Both users receive discounts | Invalid referral code, Code used by existing user | Referral code applied successfully, Discounts applied to both users | Code not recognized, Code used incorrectly |

Test Cases

| Feature | Test Case | Description | Expected Outcome | New Tags Covered |
|-------------------|-----------|--|--------------------------|------------------|
| User Registration | TC1 | Full Name: "John Doe" (Valid) | Form submission succeeds | V1 |
| User Registration | TC2 | Full Name: "John123" (Invalid - Contains numbers) | Form submission fails | V2 |
| User Registration | TC3 | Full Name: "John#Doe" (Invalid - Special Characters) | Form submission fails | V3 |
| User Registration | TC4 | Full Name: "" (Invalid - Empty) | Form submission fails | V4 |
| User Registration | TC5 | Full Name: "J" (Boundary - 1 char) | Form submission succeeds | B1 |

| Feature | Test Case | Description | Expected Outcome | New Tags Covered |
|----------------------|-----------|---|--|------------------|
| User Registration | TC6 | Full Name: 51 characters alphabetic (Boundary - Overflow) | Form submission fails | B2 |
| User Registration | TC7 | Email Address: "user@example.com" (Valid) | Form submission succeeds | V5 |
| User Registration | TC8 | Email Address: "user@.com" (Invalid - Incorrect format) | Form submission fails | V6 |
| User Registration | TC9 | Email Address: "" (Invalid - Empty) | Form submission fails | V7 |
| User Registration | TC10 | Age: 25 (Valid) | Form submission succeeds | V8 |
| User Registration | TC11 | Age: 17 (Boundary - Below minimum) | Form submission fails | B3 |
| User Registration | TC12 | Age: 18 (Boundary - Minimum) | Form submission succeeds | B4 |
| User Registration | TC13 | Age: 100 (Boundary - Maximum) | Form submission succeeds | B5 |
| User Registration | TC14 | Age: 101 (Boundary - Above maximum) | Form submission fails | B6 |
| User Registration | TC15 | Password: "Passw0rd!" (Valid) | Form submission succeeds | V9 |
| User Registration | TC16 | Password: "password" (Invalid - No uppercase or number) | Form submission fails | V10 |
| User Registration | TC17 | Password: "Passw" (Boundary - Too short) | Form submission fails | B7 |
| User Registration | TC18 | Confirm Password: Matches Password (Valid) | Form submission succeeds | V11 |
| User Registration | TC19 | Confirm Password: Does not match Password | Form submission fails | V12 |
| User Registration | TC20 | Credit Card: "1234567812345678" (Valid) | Form submission succeeds | V13 |
| User Registration | TC21 | Credit Card: "12345" (Invalid - Too short) | Form submission fails | V14 |
| User Registration | TC22 | Credit Card: "12345678123456789" (Invalid - Too long) | Form submission fails | V15 |
| User Registration | TC23 | Credit Card: "1234abcd5678efgh" (Invalid - Non-numeric) | Form submission fails | V16 |
| Event Selection | TC1 | User selects an available event | Event is selected successfully | E1 |
| Event Selection | TC2 | User attempts to select an event that doesn't exist | Error message is displayed | E2 |
| Payment Processing | TC1 | Payment is processed successfully | Confirmation message is displayed | P1 |
| Payment Processing | TC2 | Payment fails due to gateway error | Error message is displayed | P2 |
| Email Confirmation | TC1 | User receives confirmation email | Email with event details received | E3 |
| Email Confirmation | TC2 | User does not receive email | Error message displayed in account | E4 |
| Profile Management | TC1 | User views and edits profile | Profile updates are saved successfully | P3 |
| Profile Management | TC2 | User views profile with no updates | Profile data displayed as is | P4 |
| Password Recovery | TC1 | User requests password reset link | Reset link sent to email | P5 |
| Password Recovery | TC2 | User requests reset with invalid email | Error message displayed | P6 |
| Event Details Page | TC1 | User views event details page | Event information displayed | E5 |
| Event Details Page | TC2 | User attempts to access details of non-existent event | Error message displayed | E6 |
| User Roles | TC1 | Admin accesses restricted area | Admin access granted | U1 |
| User Roles | TC2 | User attempts to access admin-only area | Access denied error displayed | U2 |
| Search Functionality | TC1 | Test valid search with correct date location | Search results displayed correctly | V1 |

| Feature | Test Case | Description | Expected Outcome | New Tags Covered |
|------------------------------|-----------|---|--|------------------|
| and category | | | | |
| Search Functionality | TC2 | Test invalid date format (MM/DD/YYYY) | Error message displayed for invalid date | X1 |
| Search Functionality | TC3 | Test empty location input | Error message displayed for empty location | X2 |
| Search Functionality | TC4 | Test category with spaces | Error message displayed for invalid category | X3 |
| User Reviews and Ratings | TC5 | Test valid rating of 4 stars and an optional review | Rating and review submitted successffly | V1 |
| User Reviews and Ratings | TC6 | Test rating below 1 star | Error message displayed for invalid rating | X1 |
| User Reviews and Ratings | TC7 | Test rating above 5 stars | Error message displayed for invalid rating | X2 |
| User Reviews and Ratings | TC8 | Test review exceeding 200 characters | Error message displayed for long review | X3 |
| Notification System | TC9 | Test user receives notification for event update | Notification displayed to user | V1 |
| Notification System | TC10 | Test no notification received for non-existent events | No notification error message displaye | X1 |
| Event Cancellation | TC11 | Test cancellation 15 days before event | Full refund processed | V1 |
| Event Cancellation | TC12 | Test cancellation 3 days before event | No refund processed | X1 |
| Promotional Discount Codes | TC13 | Test valid discount code 1234 | Discount applied during checkout | V1 |
| Promotional Discount Codes | TC14 | Test invalid discount code (not 4 digits) | Error message displayed for invalid code | X1 |
| Mobile Responsiveness | TC15 | Test access on mobile device | System displays correctly on mobile | V1 |
| Mobile Responsiveness | TC16 | Test access on non-mobile device | System displays with expected layout | X1 |
| Data Export | TC17 | Test export user data as CSV | Data exported in correct format | V1 |
| Data Export | TC18 | Test export with unsupported format | Error message displayed for invalid format | X1 |
| Session Management | TC19 | Test user logout after inactivity period | User logged out after specified timeout | V1 |
| Session Management | TC20 | Test user remains logged in with activity | User remains logged in successfully | V2 |
| Multi-Language Support | TC21 | Test switching to supported language | Language changes successfully | V1 |
| Multi-Language Support | TC22 | Test unsupported language input | Error message displayed for unsupported language | X1 |
| Group Registration Discounts | TC23 | Test registering 7 participants | 10% discount applied successfully | V1 |
| Group Registration Discounts | TC24 | Test registering 12 participants | 15% discount applied successfully | V2 |
| Early Bird Registration | TC1 | Test registration 31 days before event | 20% discount applied | V1 |
| Early Bird Registration | TC2 | Test registration 29 days before event | No discount applied and registration accepted | X1 |
| Early Bird Registration | TC3 | Test registration on the event date | No discount applied and registration accepted | X2 |
| Promotional Code Validation | TC4 | Test valid promotional code | Discount applied to total registration fee | V1 |
| Promotional Code Validation | TC5 | Test invalid promotional code | Error message displayed for invalid code | X1 |

| Feature | Test Case | Description | Expected Outcome | New Tags Covered |
|-----------------------------------|-----------|---|---|------------------|
| Promotional Code Validation | TC6 | Test expired promotional code | Error message displayed for expired code | X2 |
| Payment Plan Options | TC7 | Test full payment option selected | Total amount due displayed correctly | V1 |
| Payment Plan Options | TC8 | Test two installments option selected | Total due amounts for each installment displayed corretly | V2 |
| Payment Plan Options | TC9 | Test three installments option selected | Amounts due displayed for all three installments | V3 |
| Payment Plan Options | TC10 | Test selecting an invalid payment plan | Error message displayed for invalid selection | X1 |
| Event Bundle Registration | TC11 | Test registration for 2 events | 5% discount applied on total | V1 |
| Event Bundle Registration | TC12 | Test registration for 3 events | 10% discount applied on total | V2 |
| Event Bundle Registration | TC13 | Test registration for 4 events | 15% discount applied on total | V3 |
| Event Bundle Registration | TC14 | Test registration for 1 event | No discount applied and registration accepted | X1 |
| Customizable Registration Options | TC15 | Test selecting main event and workshop | 10% discount applied on workshop fee | V1 |
| Customizable Registration Options | TC16 | Test selecting unsupported combination of options | Error message displayed for nsupported options | X1 |
| Referral Program | TC17 | Test valid referral code used by new user | \$10 discount applied to both users | V1 |
| Referral Program | TC18 | Test invalid referral code entered | Error message displayed for invalid code | X1 |
| Referral Program | TC19 | Test code used by existing user | No discount applied and error message displayed | X2 |