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Functional Requirements Test Cases

# **1. Full Name Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Full Name Input | 1 ≤ Length ≤ 50 | Length = 0 (empty) | Length < 1 | Length = 1 (e.g., "A") |
|  |  | Length > 50 | Length = 51 | Length = 50 (e.g., "A" repeated 50 times) |
|  |  | Contains numbers |  |  |
|  |  | Contains special characters |  |  |

## **1.1Test Case: Full Name Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC001 | Valid full name | "Abdul Haq" (10 chars) | Success | V1, V2, V3 |
| TC002 | Invalid - empty full name | "" (0 chars) | Error: Full Name cannot be empty | V1, B1 |
| TC003 | Invalid - contains numeric characters | "AbdulHaq123" | Error: Full Name cannot contain non-alphabetic characters | V1, V4, B3 |
| TC004 | Boundary - 1 character full name | "J" (1 char) | Success | V1, B2 |
| TC005 | Boundary - 50 characters | 50 alphabetic characters | Success | V1, B4 |
| TC006 | Invalid Boundary - 51 characters | 51 alphabetic characters | Error: Full Name exceeds 50 characters | V1, B5 |

## **1.2 Email Address Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Email Input | Proper email format (e.g., user@example.com) | Length > 0 (empty) |  | Proper format (e.g., "user@example.com") |
|  |  | Missing “@” symbol |  |  |
|  |  | Missing domain |  |  |
|  |  | Missing username |  |  |

**Test Case: Email Address Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC007 | Valid email address | "user@example.com" | Success | E1, E2, E3 |
| TC008 | Invalid - empty email address | "" | Error: Email cannot be empty | E1, B1 |
| TC009 | Invalid - missing "@" symbol | "userexample.com" | Error: Invalid email format | E1, B2, E4 |
| TC010 | Invalid - missing domain | "user@" | Error: Invalid email format | E1, B3 |

## **1.3. Age Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Age Input | 18 ≤ Age ≤ 100 | Age < 18 | Age < 18 | Age = 18 |
|  |  | Age > 100 | Age > 100 | Age = 100 |
|  |  | Non-integer values |  |  |

**Test Case: Age Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC011 | Valid age | 25 | Success | A1, A2 |
| TC012 | Invalid - age below minimum boundary | 17 | Error: Age must be between 18 and 100 | A1, B1 |
| TC013 | Invalid - age above maximum boundary | 101 | Error: Age must be between 18 and 100 | A1, B2 |
| TC014 | Boundary - minimum valid age | 18 | Success | A1, V1 |
| TC015 | Boundary - maximum valid age | 100 | Success | A1, V2 |

## **1.4 Password Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Password Input | Length ≥ 8, contains at least 1 uppercase & 1 number | Length < 8 characters | Length < 8 | Length = 8 (e.g., "Password1") |
|  |  | Missing uppercase letter | Length = 8 | Length = 9 (e.g., "P@ssword1") |
|  |  | Missing number |  |  |

**Test Case: Password Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC016 | Valid password | "Pass1234" | Success | P1, P2 |
| TC017 | Invalid - password too short | "Pass12" (6 chars) | Error: Password must be at least 8 characters | P1, B1 |
| TC018 | Invalid - missing uppercase letter | "password123" | Error: Password must include at least one uppercase letter | |  | | --- | |  |   P1,V1 |
| TC019 | Invalid - missing number | "Password" | Error: Password must include at least one number | |  | | --- | |  |  |  | | --- | | P1,V1 | |  | |  | |  | |

## **1.5 Confirm Password Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Confirm Password Input | Matches Password field | Empty |  | Matches the password (e.g., "Password1") |
|  |  | Does not match Password |  |  |

**Test Case: Confirm Password Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC020 | Valid matching password | "Pass1234" | Success | P3 |
| TC021 | Invalid - passwords do not match | "Pass1234" / "Pass12345" | Error: Passwords do not match | |  | | --- | |  |  |  | | --- | | P3, V3 | |
| TC022 | Invalid - empty confirm password | "" | Error: Confirm Password cannot be empty | |  | | --- | |  |  |  | | --- | | P3, B3 | |

## **1.6 Credit Card Information Field**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Credit Card Input | Length = 16 numeric digits | Length < 16 digits | Length < 16 | Length = 16 (e.g., "1234567890123456") |
|  |  | Length > 16 digits | Length > 16 |  |
|  |  | Non-numeric characters |  |  |
|  |  |  |  |  |

**Test Case: Credit Card Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC023 | Valid credit card number | "1234567812345678" | Success | CC1 |
| TC024 | Invalid - less than 16 digits | "123456781234567" | Error: Credit Card number must be 16 digits | CC2, B3 |
| TC025 | Invalid - contains non-numeric characters | "1234abcd12345678" | Error: Credit Card number must be numeric | CC2, V4 |
| TC026 | Boundary - 16 digits | "1234567812345678" | Success | CC1, B1 |
| TC027 | Invalid Boundary - 15 digits | "123456781234567" | Error: Credit Card number must be 16 digits | CC2, B3 |

# **2. Event Selection**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Event Selection Input | Available events > empty | No events available = empty | No event selected = empty | Selecting the first available event = "Event A" |

**Test Case: Event Selection**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC001 | Valid event selected | "Event A" | Success = Event selected | |  | | --- | |  |  |  | | --- | | EV1, V1 | |
| ZTC002 | Invalid - no events available | "" | Error = No events available | |  | | --- | |  |  |  | | --- | | EV2, B1 | |
| TC003 | Invalid - event selection not made | "" | Error = No event selected | |  | | --- | |  |  |  | | --- | | EV2, B2 | |
| TC004 | Boundary - select the first event | "Event A" | Success = Event selected | |  | | --- | |  |  |  | | --- | | EV1, B3 | |

# **3. Payment Processing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Payment Input | Valid payment information > empty | Invalid payment information = empty | Invalid credit card format < valid format | Valid credit card format = "123456781234567 |

**Test Case: Payment Processing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC005 | Valid payment processed | Valid credit card details | Success =Payment processed | PAY1, V1 |
| TC006 | Invalid - empty payment information | " " | Error = Payment information cannot be empty | PAY2, B1 |
| TC007 | Invalid - invalid credit card number | "1234abcd12345678" | Error = Invalid credit card format | |  | | --- | |  |  |  | | --- | | PAY2, B2 | |
| TC008 | Boundary - valid credit card length | "1234567812345678" | Success = Payment | |  | | --- | |  |  |  | | --- | | PAY1, B3 | |

# **4. Email Confirmation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Email Confirmation Input | Valid email address > empty | No email address provided = empty | Invalid email format < valid format | Valid email format |

**Test Case: Email Confirmation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC009 | Valid email confirmation sent | "user@example.com" | Success = Email confirmed | |  | | --- | |  | | E1,V1 | |
| TC010 | Invalid - no email address provided | "" | Error = Email cannot be empty | E2, B1 |
| TC011 | Invalid - invalid email format | "userexample.com" | Error = Invalid email format | |  | | --- | |  |  |  | | --- | | E2, B2 | |

# **5. Profile Management**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Profile Management Input | Valid login credentials > empty | Invalid login credentials = empty | Empty fields = empty | Correct credentials ="username” |

**Test Case: Profile Management**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC012 | Valid profile login | "username, password" | Success = Logged in | |  | | --- | |  |  |  | | --- | | L1, V1 | |
| TC013 | Invalid - incorrect username | "wrongUsername, password" | Error = Invalid username or password | L2, B1 |
| TC014 | Invalid - empty fields | "" | Error = Fields cannot be empty | L2, B2 |

# **6. Password Recovery**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Password Recovery Input | Valid email for recovery > empty | Invalid email for recovery = empty | Invalid email format < valid format | Valid email format = "user@example.com" |

**Test Case: Password Recovery**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC015 | Valid password recovery request | "user@example.com" | Success = Recovery email sent | R1, V1 |
| TC016 | Invalid - email not registered | "unknown@example.com" | Error = Email not found | |  | | --- | |  |  |  | | --- | | R2, B1 | |
| TC017 | Invalid - empty email | "" | Error = Email cannot be empty | |  | | --- | |  |  |  | | --- | | R2, B2 | |
| TC018 | Invalid - invalid email format | "userexample.com" | Error = Invalid email format | |  | | --- | |  |  |  | | --- | | R2, B3 | |

# **7. Event Details Page**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Event Details Input | Details are filled (date, time, location, description) | Details missing | Fields = 0 | Fields > 0 |

**Test Case: Event Details Page**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC001 | Valid event details displayed | "2024-10-30, 10:00 AM, Venue A, Event description" | Success | E1, V1 |
| TC002 | Invalid - missing date | ", 10:00 AM, Venue A, Event description" | Error: Date < 1 | |  | | --- | |  |  |  | | --- | | E2, B1 | |
| TC003 | Invalid - missing time | "2024-10-30, , Venue A, Event description" | Error: Time < 1 | E2, B2 |
| TC004 | Invalid - missing location | "2024-10-30, 10:00 AM, , Event description" | Error: Location < 1 | E2, B3 |
| TC005 | Invalid - missing description | "2024-10-30, 10:00 AM, Venue A, " | Success (but warning: description = 0) | E2, V2 |

# **8. User Roles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| User Role Input | Roles ∈ {Regular user, Administrator} | Unknown role | Role < 1 | Role ∈ {Regular user, Administrator} |

**Test Case: User Roles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC006 | Regular user access | "Regular User" | Success: Access = Granted | |  | | --- | |  |  |  | | --- | | U1, V1 | |
| TC007 | Administrator access | "Administrator" | Success: Access = Granted | |  | | --- | | U2, V1 | |
| TC008 | Invalid user role | "Guest" | Error: Role ≠ {Regular user, Administrator} | |  | | --- | | U1, B1 | |

# **9. Search Functionality**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Search Input | Filters > 0 | No filters | Filters = 0 | Filters > 0 |

**Test Case: Search Functionality**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC009 | Valid search by date | "10/30/2024" | Success: Events > 0 | S1, V1 |
| TC010 | Invalid - empty date | "" | Error: Date = 0 | S2, B1 |
| TC011 | Invalid - incorrectly formatted date | "30/10/2024" | Error: Date ≠ Valid format | S3, B2 |
| TC012 | Valid search by location | "Venue A" | Success: Events > 0 | |  | | --- | |  |  |  | | --- | | S4, V2 | |
| TC013 | Invalid - empty location | "" | Error: Location = 0 | |  | | --- | |  |  |  | | --- | | S5, B1 | |
| TC014 | Valid search by category | "Music" | Success: Events > 0 | |  | | --- | |  |  |  | | --- | | S6, V3 | |
| TC015 | Invalid - invalid category | "Music Festival" | Error: Category = Invalid | |  | | --- | |  |  |  | | --- | | S7, B3 | |

# 

# **10. User Reviews and Ratings**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Review and Rating Input | Review ∈ Valid, Rating ∈ [1, 5] | Invalid rating | Rating < 1 ∨ Rating > 5 | Rating ∈ [1, 5] |

**Test Case: User Reviews and Ratings**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC016 | Valid review and rating | "Great event!", 5 | Success | R1, V1 |
| TC017 | Invalid - rating below range | "Okay event.", 0 | Error: Rating < 1 | |  | | --- | |  |  |  | | --- | | R2, B1 | |
| TC018 | Invalid - rating above range | "Okay event.", 6 | Error: Rating > 5 | |  | | --- | |  |  |  | | --- | | R3, B2 | |
| TC019 | Valid review with no rating | "Nice experience!" | Success | |  | | --- | |  |  |  | | --- | | R4, V2 | |
| TC020 | Invalid - review exceeds character limit | "A" repeated 201 times | Error: Review length > 200 | R5, B3 |
| TC021 | Valid review at character limit | "A" repeated 200 times | Success | R6, V3 |

# **11. Notification System**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Notification Input | Content > 0 characters | Content = 0 characters | Content < 1 character | Content is correctly formatted |

**Test Case: Notification System**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC001 | Valid notification sent | "Event Reminder: Event A on 2024-10-30" | Success: Notification sent | |  | | --- | |  |  |  | | --- | | N1, V1 | |
| TC002 | Invalid - empty notification | "" | Error: Notification content cannot be empty | |  | | --- | |  |  |  | | --- | | N2, B1 | |
| TC003 | Valid notification with special characters | "Reminder: Event @# on 2024-10-30!" | Success: Notification sent | N3, V2 |

# **12. Event Cancellation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Cancellation Input | Days before event > 5 | Days before event ≤ 5 | Days before event < 0 | Days before event = 5 |

**Test Case: Event Cancellation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (days before event) | Expected Outcome | New Tags Covered |
| TC004 | Valid cancellation - full refund | 11 | Success: Full refund issued | C1, V1 |
| TC005 | Valid cancellation - partial refund | 4 | Success: 50% refund issued | C2, V2 |
| TC006 | Invalid cancellation - no refund | 2 | Error: No refund for cancellations after 5 days | C3, B1 |
| TC007 | Invalid cancellation - beyond refund period | 12 | Error: Cancellation period expire | C4, B2 |

# **13. Promotional Discount Codes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Discount Code Input | Length = 4 digits | Length < 4 digits | Length > 4 digits | Numeric format only |

**Test Case: Promotional Discount Codes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC008 | Valid discount code | "1234" | Success: Discount applied | V1, V2 |
| TC009 | Invalid - too short discount code | "123" | Error: Discount code must be 4 digits | V3, B1 |
| TC010 | Invalid - too long discount code | "12345" | Error: Discount code must be 4 digits | V3, B1 |
| TC011 | Invalid - non-numeric discount code | "ABCD" | Error: Discount code must be numeric |  |

# **14. Mobile Responsiveness**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Responsiveness Input | Layout = Responsive | Layout ≠ Responsive | Non-responsive elements exist | Fully responsive across devices |

**Test Case: Mobile Responsiveness**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC012 | Valid mobile view | Access on mobile device | Success: Layout displays correctly | V1, V2 |
| TC013 | Invalid mobile layout | Access on mobile device | Error: Elements overlap or are cut off | V3, B1 |
| TC014 | Valid mobile functionality | Clickable buttons | Success: Buttons functional | |  | | --- | |  |  |  | | --- | | V1, V2 | |

**15. Data Export**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Data Export Input | Request = Valid format | Request = No request | Request ≠ Supported format | CSV or Excel format requested |

**Test Case: Data Export**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC015 | Valid CSV export request | "CSV" | Success: Data exported in CSV format | V1, V2 |
| TC016 | Valid Excel export request | "Excel" | Success: Data exported in Excel format | V1, V2 |
| TC017 | Invalid - unsupported format | "PDF" | Error: Unsupported export format | V3, B3 |
| TC018 | Invalid - no request made | "" | Error: No export request made | V3, B3 |

# **16. Session Management**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Session Input | Session Duration ≥ 1 min & ≤ 60 min | Session Duration < 1 min | Session Duration not specified | Session Duration = 1 min to 60 min |

**Test Case: Session Management**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (inactivity period) | Expected Outcome | New Tags Covered |
| TC001 | Valid session maintained | 20 minutes | Success: User remains logged in | V1, V2 |
| TC002 | Invalid - session timeout | 31 minutes | Error: User logged out due to inactivity | V3, B3 |
| TC003 | Valid session duration | 5 minutes | Success: User remains logged in | |  | | --- | |  |  |  | | --- | | V1, V2 | |
| TC004 | Invalid - no session duration set | N/A | Error: Session management not configured | V3, B3 |

# **17. Multi-Language Support**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Language Input | Language Supported | Language Unsupported | No Language Selected | Language Available in System |

**Test Case: Multi-Language Support**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC005 | Valid language selection | "English" | Success: Language switched to English | V1, V2 |
| TC006 | Invalid - unsupported language | "Klingon" | Error: Language not supported | V1, V2 |
| TC007 | Valid language selection | "Spanish" | Success: Language switched to Spanish | V3, B3 |
| TC008 | Invalid - no language selected | N/A | Error: No language selected | V3, B3 |

# **18. Group Registration Discounts**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Participants Input | Participants ≥ 1 & ≤ 20 | Participants < 1 | Participants = 0 | Participants = 1 to 20 |

**Test Case: Group Registration Discounts**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (number of participants) | Expected Outcome |  |
| TC009 | Valid discount for 6 participants | 6 | Success: 10% discount applied |  |
| TC010 | Valid discount for 11 participants | 11 | Success: 15% discount applied |  |
| TC011 | No discount for 5 participants | 5 | Success: No discount applied |  |
| TC012 | Invalid - negative participants | -1 | Error: Invalid number of participants |  |
| TC013 | Invalid - zero participants | 0 | Error: Must register at least one participant |  |

# **19. Early Bird Registration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Registration Date | Days ≥ 30 before event | Days < 30 before event | Registration on event day | Days = 30 before event date |

**Test Case: Early Bird Registration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (days before event) | Expected Outcome | New Tags Covered |
| TC014 | Valid early bird discount | 31 | Success: 20% discount applied | V1, V2 |
| TC015 | Invalid - late registration | 29 | Error: No early bird discount available | V3, B3 |
| TC016 | Valid early bird discount | 30 | Success: 20% discount applied | V3, B3 |
| TC017 | Invalid - registration on event day | 0 | Error: Registration must be done at least 30 days prior | V1, V2 |

# **20. Promotional Code Validation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Promotional Code Input | Code Valid | Code Invalid | Code Expired | Code Used within limits |

**Test Case: Promotional Code Validation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC018 | Valid promotional code | "SAVE20" | Success: Discount applied | V1, V2 |
| TC019 | Invalid promotional code | "INVALID" | Error: Promotional code not valid | V3, B3 |
| TC020 | Expired promotional code | "EXPIRED" | Error: Promotional code has expired | V3, B3 |
| TC021 | Valid code with usage limits | "LIMITED" | Success: Discount applied (if within limits) | V1, V2 |
| TC022 | Invalid code usage exceeded | "LIMITED" | Error: Promotional code usage limit exceeded | V3, B3 |

# **21. Payment Plan Options**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Payment Plan Input | Full payment, Two installments, Three installments | Unsupported payment plans | Percentages > 100% | Percentages = 100% |

**Test Case: Payment Plan Options**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Outcome | New Tags Covered |
| TC001 | Full payment option | Full payment | Success: Amount due displayed | V1, V2 |
| TC002 | Two installments option | Two installments | Success: 50% now, 50% in 30 days displayed | V1, V2 |
| TC003 | Three installments option | Three installments | Success: 33% now, 33% in 30 days, 34% in 60 days displayed | V1, V2 |
| TC004 | Invalid - unsupported plan | Four installments | Error: Invalid payment plan selected | V3, B3 |
| TC005 | Invalid - invalid percentage for installments | 60% now, 60% later | Error: Installment percentages must sum to 100% | V3, B3 |

# **22. Event Bundle Registration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Event Count Input | 1 event, 2 events, 3 events, 4 ≤ events | Negative event count | 0 events registered | 1 ≤ events ≤ 10 |

**Test Case: Event Bundle Registration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (number of events) | Expected Outcome | New Tags Covered |
| TC006 | Valid bundle registration for 2 events | 2 | Success: 5% discount applied, total cost displayed | V1, V2 |
| TC007 | Valid bundle registration for 3 events | 3 | Success: 10% discount applied, total cost displayed | V1, V2 |
| TC008 | Valid bundle registration for 4 events | 4 | Success: 15% discount applied, total cost displayed | V1, V2 |
| TC009 | Invalid - negative events | -1 | Error: Invalid number of events | V3, B3 |
| TC010 | Invalid - zero events | 0 | Error: Must register at least one event | V3, B3 |

# **23. Customizable Registration Options**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Customization Input | Meal preferences, Workshop choices | Unsupported options | Invalid combinations (not allowed) | Valid combinations available in the |

**Test Case: Customizable Registration Options**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (customization choices) | Expected Outcome | New Tags Covered |
| TC011 | Valid customization with workshop choice | Workshop + Main Event | Success: 10% discount on workshop fee applied | V1, V2 |
| TC012 | Valid customization without discount | Meal preference only | Success: No discount applied, customization displayed | V1, B1 |
| TC013 | Invalid combination of options | Unsupported combination | Error: Invalid customization options selected | V3, B3 |
| TC014 | Valid customization without workshop | Main Event only | Success: No discounts, total cost displayed | V1, B1 |

# **24. Referral Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Referral Code Input | Valid referral code | Invalid referral code | Expired referral code | Valid codes in the system |

**Test Case: Referral Program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (referral code) | Expected Outcome | New Tags Covered |
| TC015 | Valid referral code used | "REF123" | Success: $10 discount applied for both users | V1, V2 |
| TC016 | Invalid referral code | "INVALID" | Error: Referral code not valid | V1, V3 |
| TC017 | Expired referral code | "EXPIRED" | Error: Referral code has expired | V1, V3 |
| TC018 | Valid referral code for new user | "NEWUSER" | Success: Both users receive discounts on their next registration | V1, V2, B1 |

# **25. Age-Based Discounts**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Age Input | 18 ≤ Age < 26, Age ≥ 60 | Age < 18, 26 ≤ Age < 60 | Age < 0 | Age = 18, Age = 25, Age = 60 |

**Test Case: Age-Based Discounts**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (age) | Expected Outcome | New Tags Covered |
| TC001 | Valid student discount | Age = 20 | Success: Discount = 15% | V1, V2, B1 |
| TC002 | Valid senior discount | Age = 65 | Success: Discount = 20% | V1, V2, B2 |
| TC003 | Invalid - age under 18 | Age = 17 | Error: Age ≥ 18 required | V1, V3 |
| TC004 | Invalid - age not eligible for discount | Age = 30 | Success: Discount = 0% | V1, V4 |
| TC005 | Boundary case - age 18 | Age = 18 | Success: Discount = 15% | V1, V2, B1 |
| TC006 | Boundary case - age 60 | Age = 60 | Success: Discount = 20% | V1, V2, B2 |
| TC007 | Invalid - negative age | Age = -1 | Error: Age ≥ 0 required | V1, V3 |

# 

# **26. Feedback Incentives**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Feedback Submission | Feedback provided | No feedback given | Invalid feedback format | Valid feedback format |

**Test Case: Feedback Incentives**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (feedback given) | Expected Outcome | New Tags Covered |
| TC008 | Valid feedback submission | "Great event!" | Success: Discount = 10% for next registration | V1, V2, B1 |
| TC009 | No feedback provided | "" | Error: Feedback required for discount | V1, V3 |
| TC010 | Invalid feedback format | "!" | Error: Invalid feedback format | V1, V3 |

# **27. Multiple Payment Methods**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Valid Partitions | Invalid Partitions | Invalid Boundaries | Valid Boundaries |
| Payment Method Selection | Credit Card, PayPal | Unsupported payment method | Invalid payment method input | Valid payment methods available |

**Test Case: Multiple Payment Methods**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Description | Input (payment method) | Expected Outcome | New Tags Covered |
| TC011 | Valid credit card payment | Credit Card | Success: Total = Amount (no additional fees) | V1, V2, V5 |
| TC012 | Valid PayPal payment | PayPal | Success: Total = Amount + 3% processing fee | V1, V2, B5 |
| TC013 | Invalid payment method | Bitcoin | Error: Unsupported payment method | V1, V3 |
| TC014 | Valid PayPal payment with additional fee | PayPal | Success: Total with 3% fee correctly calculated | V1, V2, B5 |