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22I-2585

SE-G

SQE

Saba Kanwal

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1. Full Name Field

Conditions	Valid Partitions	Invalid Partitions	Invalid Boundaries	Valid Boundaries
Full Name Input	$1 \leq \text{Length} \leq 50$	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		

1.1 Test 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	$18 \leq \text{Age} \leq 100$	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		
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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 \in {Regular user, Administrator}	Unknown role	Role < 1	Role \in {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
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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 \in Valid, Rating $\in [1, 5]$	Invalid rating	Rating < 1 v Rating > 5	Rating $\in [1, 5]$

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
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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
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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
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Session Input	Session Duration ≥ 1 min & ≤ 60 min	Session Duration < 1 min	Session Duration not specified	Session Duration = 1 min to 60 min
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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
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Language Input	Language Supported	Language Unsupported	No Language Selected	Language Available in System
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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 \geq 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
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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, $4 \leq \text{events}$	Negative event count	0 events registered	$1 \leq \text{events} \leq 10$

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
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Customization Input	Meal preferences, Workshop choices	Unsupported options	Invalid combinations (not allowed)	Valid combinations available in the
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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	$18 \leq \text{Age} < 26$, Age ≥ 60	Age < 18 , $26 \leq \text{Age} < 60$	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