Assignment 1

Answer 1

A. Clarification Required in User Story:

- 1. Should the cancel button not be displayed after midnight or there will be any specific time slot?
- 2. What is the refund policy for cancellations made on the journey date or a few hours before departure?
- 3. In the refund criteria, do boundary days are included or excluded? like in the 60 30 days period, are "60" and "30" included or not?
- 4. Will refund be calculated on the fare price or the full ticket price with charges and taxes?
- 5. What information must the cancellation email contain(e.g. Refund Amount, journey details, cancellation ID, etc)?

B. Questions for the scope of requirements:

- 1. Does this cancellation policy apply to all types of tickets?
- 2. Are there any circumstances where full refund will be granted to the user like train cancellation or emergency?
- 3. Can a user cancel a ticket if the ticket is part of any promotional offer?
- 4. If one booking has multiple tickets, can a user cancel only some tickets?
- 5. Will the refund be processed back to the original payment method?
- 6. Is there any limit on the number of cancellations by a user within a certain period?

Answer 2

- 1. Cancel Button Visibility:-
- Verify the "Cancel Ticket" button is displayed for a ticket with a journey date in the future.
- 3. Verify the "Cancel Ticket" button is not displayed for a ticket with a journey date in the past.
- 4. Verify the "Cancel Ticket" button is displayed for a ticket with a journey date as the current date.
- 5. Ticket Cancellation Process :-
- Successful cancellation of a ticket when all conditions are met.
- 7. Verify user receives a confirmation message upon successful cancellation.
- 8. Verify system behavior when attempting to cancel a cancelled ticket.
- 9. Verify system behavior when attempting with a invalid ticket information.
- 10. Refund Calculation Logic :-

- 11. Verify 70% refund for cancellation exactly 60 days prior to journey date.
- 12. Verify 70% refund for cancellation more than 60 days prior to journey date.
- 13. Verify 50% refund for cancellation between 60-30 days prior to journey date.
- 14. Verify 35% refund for cancellation between 30-10 days prior to journey date.
- 15. Verify 20% refund for cancellation between 10-1 days prior to journey date.
- 16. Verify refund behavior for cancellation on the journey date.
- 17. Verify no refund for tickets whose journey date has passed.
- 18. Email Notification :-
- 19. Verify successful email dispatch to the registered user email ID upon successful cancellation.
- 20. Verify the content of the email includes all the necessary information about the cancellation.
- 21. Verify system behaviour if the email service is down or fails to send email.
- 22. Verify email is not sent if cancellation fails.
- 23. Error Handling:-
- 24. Verify appropriate error messages are displayed for invalid inputs or failed cancellation.
- 25. Verify system behavior on server errors.

Answer 3

Test Cases for the Refund Amount Calculation :-

- 1. **Days >= 60**: 70% Refund (Interpreting "60 days prior").
- 2. **30 <= Days <= 59**: 50% Refund (Interpreting "between 60-30 days")
- 3. **10 <= Days <= 29**: 35% Refund (Interpreting "between 30-10 days")
- 4. **1 <= Days <= 9**: 20% Refund (Interpreting "between 10-1 days")

Answer 4

A. Boundary Value Analysis (BVA):

Partition being tested BVA Test values Expected Refund Tier

Set of Data for BVA: {1, 2, 8, 9, 10, 11, 28, 29, 30, 31, 58, 59, 60, 61}

B. Equivalence Partition Technique:

Partition Days Prior Test Data Expected Outcome

Valid	Days >= 60	100	70% Refund
Valid	30 <= Days <= 59	45	50% Refund
Valid	10 <= Days <= 29	20	35% Refund
Valid	1 <= Days <= 9	5	20% Refund
Invalid	Days < 0	-5	Cancellation not allowed
Invalid	Non-integer value	20.6	Show error or roundoff value