Question 1.) Groom the above user story and mention :

a. Any clarification required in user story acceptance criteria.

b. Any questions for the scope of the requirements.

**a. Any clarification required in user story acceptance criteria**

* **Refund amount calculation:** should it include the tax amount or will it be excluded in calculation.
* **Email Notification:** what should be included in the notification for cancellation mail.
* **User Authentication:** is it necessary for user to be logged in or do only the ticket pnr is needed to cancel the ticket.
* **Refund Processing Time:** How long will it take for the refund to be processed and reflected in the user's account?
* **What if Refund fails on bank side:** it is always a possibility that the refund might fail due to some reasons such as bank server failure or many more possible reasons in case user share incorrect bank details

**b. Any questions for the scope of the requirements.**

* Are there any specific conditions under which a ticket cannot be canceled (e.g., non-refundable tickets)?
* Should the system log the cancellation for auditing purposes? If so, what details should be logged?
* Is there a need for a user interface design for the cancellation process, or should it follow existing UI patterns?
* Will there be any notifications sent to the user if the cancellation fails for any reason?
* How will we prevent any sort of fraud with respect to the cancellation?
* In case refund is completed to some reasons can user retry the cancellation or refund process?
* Can we make the refund and cancellation separate processes

Question 2.) Create all Test Coverage Scenarios for the above User Story.

**Case 1 : Display of Cancellation Button :**

1. Displaying cancellation button for the tickets whose travel date is upcoming, i.e. the travel date is greater than the current date itself.
2. Not displaying the cancellation button for tickets whose travel date is expired i.e.the travel date is less than the current date itself.

**Case 2 :Refund Amount Calculation:**

1. Verify the refund amount calculation for cancellations made 60 days prior to the journey date.
2. Verify the refund amount calculation for cancellations made between 60-30 days prior to the journey date.
3. Verify the refund amount calculation for cancellations made between 30-10 days prior to the journey date.
4. Verify the refund amount calculation for cancellations made between 10-1 days prior to the journey date.

**Case 3 : Email Notification:**

1. Verify that an email is sent to the user upon successful cancellation of the ticket.
2. Verify that the email contains the correct details of the cancellation.

**Case 4: User Experience:**

1. Verify that the user can successfully cancel a ticket and receive a refund.
2. Verify that the user receives a confirmation message after cancellation.
3. In case the refund is not completed let the user retry the process

Question 3.) Create Test Cases for the Refund Amount calculations for above user story: .

Refund amount should be calculated as follows:

● If user cancels the ticket 60 days prior to journey date.

Refund 70% of amount

● If user cancels the ticket b/n 60-30 days prior to journey date

Refund 50% of amount.

● If user cancels the ticket between 30-10 days

Refund 35% of amount.

● If user cancels the ticket between 10-1 days

Refund 20% of amount.

**Test Case Table :**

Let’s take ticket price to be 1000 Rs for instance :

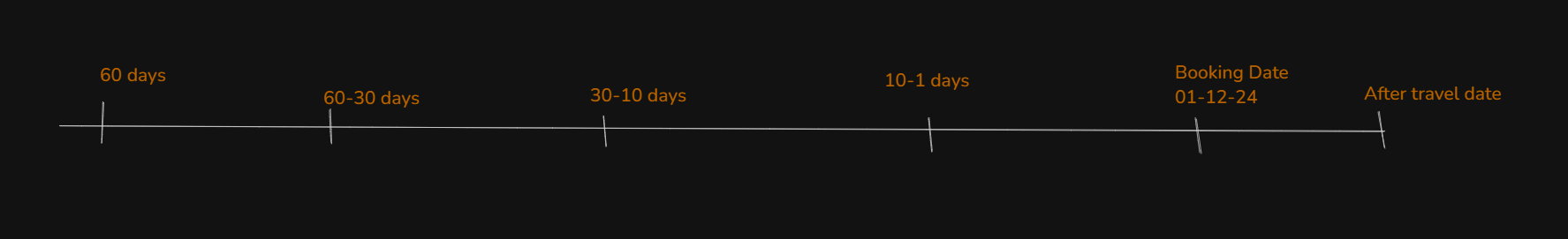
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Journey Date** | **Cancellation Date** | **Expected Refund Percentage** | **Expected Refund Amount** |
| **1** | 60 days prior to journey date. | 01-12-2024 | 01-10-2024 | 70% | 700 |
| **2** | 60-30 days prior to journey date | 01-12-2024 | 15-10-2024 | 50% | 500 |
| **3** | between 30-10 days | 01-12-2024 | 01-11-2024 | 35% | 350 |
| **4** | between 10-1 days prior to journey | 01-12-2024 | 25-11-2024 | 20% | 200 |
| **5** | on the journey date | 01-12-2024 | 01-12-2024 | 0% | 0 |
| **6** | after the journey date | 01-12-2024 | 02-12-2024 | 0% | 0 |

#### 

#### Question 4: Boundary Value Analysis and Equivalence Partitioning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Journey Date** | **Cancellation Date** | **Expected Refund Percentage** | **Expected Refund Amount** |
| **1** | 60 days prior to journey date. | 01-12-2024 | 31-09-2024 | 70% | 700 |
| **2** | 60-30 days prior to journey date | 01-12-2024 | 02-10-2024 | 50% | 500 |
| **3** | between 30-10 days | 01-12-2024 | 01-11-2024 | 35% | 350 |
| **4** | between 30-10 days | 01-12-2024 | 20-11-2024 | 35% | 350 |
| **5** | between 10-1 days prior to journey | 01-12-2024 | 25-11-2024 | 20% | 200 |
| **6** | on the journey date | 01-12-2024 | 01-12-2024 | 0% | 0 |
| **7** | after the journey date | 01-12-2024 | 02-12-2024 | 0% | 0 |

4.b) Use equivalence partitioning technique and create test data which you will use for testing.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Journey Date** | **Cancellation Date** | **Expected Refund Percentage** | **Expected Refund Amount** |
| **1** | 60 days prior to journey date. | 01-12-2024 | 01-10-2024 | 70% | 700 |
| **2** | 60-30 days prior to journey date | 01-12-2024 | 15-10-2024 | 50% | 500 |
| **3** | between 30-10 days | 01-12-2024 | 01-11-2024 | 35% | 350 |
| **4** | between 10-1 days prior to journey | 01-12-2024 | 25-11-2024 | 20% | 200 |
| **5** | on the journey date | 01-12-2024 | 01-12-2024 | 0% | 0 |
| **6** | after the journey date | 01-12-2024 | 02-12-2024 | 0% | 0 |

**Assignment 2**

Create a decision Table for the following scenario :-

Company ABC sells goods to wholesale and retail outlets. The company encourages both

wholesale and retail customers to pay cash on delivery by offering a two percent discount for

this method of payment. Wholesale customers receive an additional two percent discount on all

orders. Another two percent discount is given on orders of 50 or more units to both types of

customers. Each column represents a certain type of order.

**Decision Table :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer Type | Payment Method | Order Quantity | Discount  Applied | Total Discount Percentage |
| Wholesale | Cash On Delivery | <50 | 2%(COD)+2%(on all orders for wholesale) | 4% |
| Wholesale | Cash On Delivery | >=50 | 4%(COD +Bulk)+2%(on all orders for wholesale) | 6% |
| Wholesale | Other | <50 | 0%+2%(on all orders for wholesale) | 2% |
| Wholesale | Other | >=50 | 2%(bulk)+2%(on all orders for wholesale) | 4% |
| Retail | Cash On Delivery | <50 | 2%(COD) | 2% |
| Retail | Cash On Delivery | >=50 | 4%(COD +Bulk) | 4% |
| Retail | Other | <50 | 0% | 0% |
| Retail | Other | >=50 | 2%(bulk) | 2% |