**Testing Concepts Session 1 Assignment**

**Assignment-1**

**Answer-1:**

1. Any clarification required in user story acceptance criteria.
   * Is money to be refunded, if the user cancels the ticket on the same day of the journey? If yes, then how much per cent of the ticket amount will be refunded?
   * What if the user doesn’t have any email id?
   * What will be the mode of payment of refund amount?
   * What will be the case for waiting ticket?
   * What will be the format of cancellation mail or message sent to the user?
   * Upper limit of the cancellation duration must be included in which range?
2. Any questions for the scope of the requirements.
   * Is there any other means of communication to be provided to inform the user about on successful/ fail cancellation of the ticket like through message on phone number, etc.
   * Do we need to show successful ticket cancellation message on screen?
   * What is to be done in case of other modes of booking?
   * What is the process of money transfer, if the person doesn’t have a bank account?
   * How can the user approach, if he doesn’t get his refund amount back?
   * In how many days refund should be sent?

**Answer-2:**

**Test Coverage Scenarios**

**Positive test coverage scenario: -**

|  |  |  |
| --- | --- | --- |
| **Test coverage scenario id** | **Range** | **Expected output** |
| 1 | Journey Date > Current date | Find difference between journey date and ticket cancellation date |
| 2 | >=60 | 70% refund |
| 3 | 60 to 30 | 50% refund |
| 4 | 30 to 10 | 35% refund |
| 5 | 10 to 1 | 20% refund |

**Negative test coverage scenario: -**

|  |  |  |
| --- | --- | --- |
| **Test coverage scenario id** | **Range** | **Expected output** |
| 1 | Journey Date < Current date | Invalid |
| 2 | Email not received | Invalid |

**Answer-3:**

**Test Cases for the Refund Amount calculations: -**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Test case summary | Test case description | Prerequisite for test case | Test steps | Expected Result | Test case result |
| 1 | If user cancels ticket 60 days prior to journey date | To test that 70% of the amount of ticket is refunded when user cancels the ticket 60 days prior to the journey date. | User log-in in the system and has booked a ticket. | 1. Click on Cancel Ticket button. 2. Get all the ticket whose journey date is previous than current date. 3. Cancel ticket | 70% of amount should be refunded and a mail should be sent. | 70% of amount refunded and mail sent. |
| 2 | If user cancels the ticket between 60-30 days prior to journey date | To test that 50% of the amount of ticket is refunded when user cancels the ticket 60-30 days prior to the journey date. | User log-in in the system and has booked a ticket. | Same as above | 50% of amount should be refunded and a mail should be sent. | 50% of amount refunded and mail sent. |
| 3 | If user cancels the ticket between 30-10 days | To test that 35% of the amount of ticket is refunded when user cancels the ticket 30-10 days prior to the journey date. | User log-in in the system and has booked a ticket. | Same as above | 35% of amount should be refunded and a mail should be sent. | 35% of amount refunded and mail sent. |
| 4 | If user cancels the ticket between 10-1 days | To test that 20% of the amount of ticket is refunded when user cancels the ticket 10-1 days prior to the journey date. | User log-in in the system and has booked a ticket. | Same as above | 20% of amount should be refunded and a mail should be sent. | 20% of amount refunded and mail sent. |

**Answer-4:**

1. **Use boundary Value analysis technique and provide the set of** data which you will take for testing.

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Limit | Value | Expected output |
| >=60 | Lower limit | 61 | 70% refund |
| 60 | 70% refund |
| 59 | 50% refund |
| 59 to 30 | Upper limit | 60 | 70% refund |
| 59 | 50% refund |
| 58 | 50% refund |
| Lower limit | 31 | 50% refund |
| 30 | 50% refund |
| 29 | 35% refund |
| 29 to 10 | Upper limit | 30 | 50% refund |
| 29 | 35% refund |
| 28 | 35% refund |
| Lower limit | 11 | 35% refund |
| 10 | 35% refund |
| 9 | 20% refund |
| 9 to 1 | Upper limit | 10 | 35% refund |
| 9 | 20% refund |
| 8 | 20% refund |
| Lower limit | 2 | 20% refund |
| 1 | 20% refund |
| 0 | invalid |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Invalid | Valid | Invalid |
| >=60 | 59 | 60, 67, 70 | 91 |
| 59 to 30 | 29 | 59, 40, 45, 30 | 60 |
| 29 to 10 | 9 | 29, 20, 19, 10 | 30 |
| 9 to 1 | 0 | 9, 5, 3, 1 | 10 |

\* Assume 90 is upper limit for range >60.

**Assignment-2:**

**Here conditions & actions are specified as follows: -**

**Conditions**

* Customer type (Values: Wholesaler and Retailer)
* Cash on Delivery (COD) (Values: Yes and No)
* Number of Units

**Actions**

* No discount
* 2% discount
* Additional 2% discount

| Type of customer | Wholesaler | Wholesaler | Wholesaler | Wholesaler | Retailer | Retailer | Retailer | Retailer |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cash on delivery | Yes | Yes | No | No | Yes | Yes | No | No |
| Number of items/ units | <50 | >=50 | <50 | >=50 | <50 | >=50 | <50 | >=50 |
| Total discount | 4.00% | 6.00% | 2.00% | 4.00% | 2.00% | 4.00% | 0.00% | 2.00% |