**Testing Concepts Session 1 and 2 Assignment**

**Assignment-1**

**Answer-1:**

1. Any clarification required in user story acceptance criteria.
   * Should user get refunded, if 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 don’t have any email id?
   * What will be the mode of payment for refund amount?
   * What will be the format of cancellation mail sent to the user?
   * Boundary value of the cancellation duration has to be included in which range?
   * What should be displayed after cancellation of ticket?
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 or failure ticket cancellation message on screen?
   * How will the money be refunded if ticket has been booked online or offline, i.e. in either of the cases?
   * Should we also need to send mail if ticket cancellation fails?
   * What is the specified deadline or duration to get ticket cancellation refund amount?

**Answer-2:**

**Test Coverage Scenarios**

**Positive test coverage scenario:-**

|  |  |  |
| --- | --- | --- |
| **Test coverage scenario id** | **Range** | **Expected output** |
| 1 | Ticket cancellation date > Current date | Find difference between journey date and ticket cancellation date |
| 1.1 | >=60 | 70% refund |
| 1.2 | 60 to 30 | 50% refund |
| 1.3 | 30 to 10 | 35% refund |
| 1.4 | 10 to 1 | 20% refund |

**Negative test coverage scenario:-**

|  |  |  |
| --- | --- | --- |
| **Test coverage scenario id** | **Range** | **Expected output** |
| 1 | Ticket cancellation date < Current date | Cancel button should be disabled |
| 1.1 | <1 | 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.  It is assumed the user is logged into the system. | User log-in in the system. | 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 | 70% of amount refunded |
| 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.  It is assumed the user is logged into the system. | User log-in in the system. | Same as above | 50% of amount should be refunded | 50% of amount refunded |
| 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.  It is assumed the user is logged into the system. | User log-in in the system. | Same as above | 35% of amount should be refunded | 35% of amount refunded |
| 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.  It is assumed the user is logged into the system. | User log-in in the system. | Same as above | 20% of amount should be refunded. | 20% of amount refunded |

**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 |

\*Assume upper limit is excluded from range.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Invalid | Valid | Invalid |
| >=60 | 59 | 60 ,64, 75,120 | 121 |
| 59 to 30 | 29 | 30, 32, 46, 59 | 60 |
| 29 to 10 | 9 | 10, 11, 22, 29 | 30 |
| 9 to 1 | 0 | 1, 2, 6, 9 | 10 |

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

**Assignment-2:**

**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% |