###### **Assignment 1**

###### User Story:

###### As a railway user, I should get an option to cancel the  tickets, so that user can cancel the ticket and get refund.

###### Acceptance Criteria:

###### A new button with Label “Cancel Ticket” should be displayed for cancelling the ticket.

###### Button should not be displayed for those tickets for which journey date is previous than current date.

###### 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.

###### User should get an email for successful cancellation.

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

###### Any clarification required in user story acceptance criteria.

###### Any questions for the scope of the requirements.

###### **Answer**:

###### Where to place the button on the page is not given.

###### What if the user doesn't have an email id.

###### The user has booked the ticket via offline mode is he eligible for cancellation via online mode.

###### What is the format of email which is sent after the ticket is successfully canceled.

###### What if the cancellation step fails.

###### What is the formula to calculate the refund amount.

###### Refunded amount is sent to the users bank account or the user can collect cash from the counter.

###### What if the user doesn't have a bank account.

###### What if the train is canceled then how to refund the money.

###### Is there any option for partial cancellation.

###### If partial cancellation is possible then is the refund criteria is same or what.

###### What if after the successful cancellation of ticket the email is not sent then what to do.

###### 

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

###### **Answer**:

###### POSITIVE TEST COVERAGE

###### The cancel button should be available for the valid dates only.

###### The email is successfully sent to the user who has canceled the ticket.

###### The refund amount is calculated properly and the result is precise.

###### NEGATIVE TEST COVERAGE

###### The button is not present for the date which is previous than the current date and on the current date the button is not present.

###### The email is not sent after successful cancellation of the ticket.

###### The refund amount is not calculated properly and is not accurate.

###### **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.

###### **Answer**:

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| --- | --- | --- | --- | --- | --- | --- |
| Test Case Id | Test Scenario | Test Step | Test Data | Expected Result | Actual Result | Pass/Fail |
| TC#1 (+ve) | Checking for the visibility of cancel button for date which is not current date or previous than current date. | 1. Go to the web page for canceling the ticket.2.Login with valid credentials. | Select the ticket which is to be canceled. | The cancel button must be visible on the page. | As Expected. | Pass |
| TC#2(+ve) | Checking for email which is sent after the successful cancellation of the ticket. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | Every step worked properly and we get a success response after which email service is called or invoked. | The mail must be sent to the user's registered mail id after successfully receiving the success response. | As Expected | Pass |
| TC#3(+ve) | Checking the cancel button which must not be shown for the current date. | 1. Go to the web page for canceling the ticket.2.Login with valid credentials | Select the ticket which is to be canceled having the date as the current date. | The cancel button must not be visible on the page. | As Expected | Pass |
| TC#4(+ve) | Checking the cancel button which must not be shown for the tickets whose journey date is previous than the current date. | 1. Go to the web page for canceling the ticket.2.Login with valid credentials | Select the ticket which is to be canceled having the journey date previous than the current date. | The cancel button must not be visible on the page. | As Expected | Pass |
| TC#5 (-ve) | Checking for the visibility of cancel button for date which is not current date or previous than current date. | 1. Go to the web page for canceling the ticket.2.Login with valid credentials. | Select the ticket which is to be canceled. | The cancel button is not visible on the page. | The button must be visible. | Fail |
| TC#6(-ve) | Checking for email which is sent after the successful cancellation of the ticket. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | Every step worked properly and we get a success response after which email service is called or invoked. | The mail is not sent to the user's registered mail id after successfully receiving the success response. | The mail must be sent to the user's registered id. | Fail |
| TC#7(+ve) | Checking the refund amount if user cancels the ticket 60 days prior to journey date. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | The number of days left before the date of journey. | Refund 70% of amount | As Expected | Pass. |
| TC#8(+ve) | Checking the refund amount if user cancels the ticket between 60-30 days prior to journey date. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | The number of days left before the date of journey. | Refund 50% of the amount. | As Expected | Pass |
| TC#9(+ve) | Checking the refund amount if user cancels the ticket between 30-10 days prior to journey date. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | The number of days left before the date of journey. | Refund 35% of the amount. | As Expected | Pass |
| TC#10(+ve) | Checking the refund amount if user cancels the ticket between 10-1 days prior to journey date. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | The number of days left before the date of journey. | Refund 20% of the amount. | As Expected | Pass |
| TC#11(-ve) | Checking the refund amount if user cancels the ticket between 10-1 days prior to journey date. | 1. Go to the web page for canceling the ticket.2. Login with valid credentials.3. Select the ticket which is to be canceled.4. Calculate the number of days left for traveling. | The number of days left before the date of journey. | Refund 25% of the amount. | Refund amount must be 20%. | Fail. |

###### **Question 4.**)  For our use case:

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

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

###### **Answer**: 4.) 2.

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| Equivalence Partitioning ID | Test Data | Expected Result |
| EP#1 (Invalid) | Current date or previous than the current journey date | The cancel button must not be visible on the page. |
| EP#2 (Valid) | The journey date is more than or equal to 60. | Refund 70% of the amount. |
| EP#3 (Valid) | The journey date is less than 60 and is more than equal to 30 days. | Refund 50% of the amount. |
| EP#4 (Valid) | The journey date is less than 30 and is more than equal to 10 days. | Refund 35% of the amount. |
| EP#5 (Valid) | The journey date is less than 10 and is more than equal to 1 day. | Refund 20% of the amount. |

###### Answer: 4.) 1.

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| --- | --- | --- | --- |
| Boundary Value Analysis ID | Test Scenario | Test Data | Expected Result |
| BVA#1 (+ve) | The journey date is more than or equal to 60. | The journey date is equal to exactly 60 days. | Refund 70% of the amount. |
| The journey date is more than 60 days but not 60. |
| BVA#2 (+ve) | The journey date is less than 60 and is more than equal to 30 days. | The journey date is exactly 30 days. | Refund 50% of the amount. |
| The journey date is less than 60 days and more than 30 days but not 30 and 60. |
| BVA#3 (+ve) | The journey date is less than 30 and is more than equal to 10 days. | The journey date is more than 30 and less than 10 but not 30 and 10. | Refund 35% of the amount. |
| The journey date is exactly equal to 10. |
| BVA#4 (+ve) | The journey date is less than 10 and more than equal to 1 day. | The journey date is more than 1 and less than 10 but not 1 and 10. | Refund 20% of the amount. |
| The journey date is exactly equal to 1. |
| BVA#5 (-ve) | The journey date is current or previous than the current journey date. | The journey date is the current date | The cancel button must not be visible on the page in this scenario. |
| The journey date is previous than the current date of journey. |

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###### **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.

###### **Answer**:

###### We have following information:

###### Two type of Customer: wholesaler and retailer.

###### 2% discount to those who pay cash on delivery.

###### Additional 2% discount for the wholesaler.

###### 2% of discount who buy more than 50 units.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Customer Type** | **Additional Discount** | **Cash on Delivery** | **Number of unit > 50 or not** | **Expected Result** |
| Wholesaler | TRUE | YES | YES | 6% Discount |
| Wholesaler | TRUE | YES | NO | 4% Discount |
| Wholesaler | TRUE | NO | YES | 4% Discount |
| Wholesaler | TRUE | NO | NO | 2% Discount |
| Retailer | FALSE | YES | YES | 4% Discount |
| Retailer | FALSE | YES | NO | 2% Discount |
| Retailer | FALSE | NO | YES | 2% Discount |
| Retailer | FALSE | NO | NO | No Discount |