**TEST CASES**

Test cases are prepared based on requirements. Each company follows their own format. There are 3 types of test cases:

* Positive Test cases
* Negative Test cases
* GUI Test cases

***Test cases for pen***

1. Pen’s ink should be dark so that normal human eyes can read clearly

2. Pen should be continuously in writing mode

3. Pen’s ink color and the pen’s body, cap color should be same so that easy to understand the requirement for user

4. Pen should have the soft grip at the middle place for usability

5. Pen should be in continuously writing mode under hottest and coolest temperature

6. If pen drops from the several feet then also it should be in continuously writing mode if ink is available in pen

7. Pen should not have “Use and throw” type

8. Pen’s refill should be replaceable

9. Paper should be straight and clean

10. Paper should not too smooth and too hard

***Door locks test cases:***

1) Check the quality of the door

2) Check the quality of metals used in door lock

3) Check the size of the door lock

4) Check weight of the door lock

5) Check the key insertion for the door lock

6) Check it is logical door lock with numbers

***Test cases for cell phone***

1) Check the size of the cell phone

2) Check the compatibility with all service providers

3) Check the battery life of cell phone

4) Check the key pad of the cell phone

5) Check memory expansion of the cell phone i.e. (storage capacity)

6) Check the sound clarity

7) Check signals coverage.

***Test case for tables and chairs***

1) Check the wood to use

2) Check the size of the hall

3) Check the sitting arrangement of the chair (comfortness)

4) Check the fitting quality for tables

5) Check the strengths & thickness of the glass.

***Test cases for ATM Machine***

1. Successful insertion of ATM card

2. Unsuccessful operation due to insert card in wrong angle

3. Unsuccessful operation due to invalid account Ex: other bank card or time expired card

4. Successful entry of PIN number

5. Unsuccessful operation due to enter wrong PIN number 3times

6. Successful selection of language

7. Successful selection of account type

8. Unsuccessful operation due to invalid account type

10. Successful selection of withdrawal operation

11. Successful selection of amount to be withdrawal

12. Successful withdrawal operation

13. Unsuccessful withdrawal operation due to wrong denominations

14. Unsuccessful withdrawal operation due to amount is greater than day limit

15. Unsuccessful withdrawal operation due to lack of money in ATM

16. Unsuccessful withdrawal operation due to amount is greater than possible balance

17. Unsuccessful withdrawal operation due to transactions is greater than day limit

18. Unsuccessful withdrawal operation due to click cancel after insert card

19. Unsuccessful withdrawal operation due to click cancel after insert card & pin number

20. Unsuccessful withdrawal operation due to click cancel after insert card, pin number

& language

21. Unsuccessful withdrawal operation due to click cancel after insert card, pin number ,

Language &account type

22. Unsuccessful withdrawal operation due to click cancel after insert card, pin number ,

Language, account type & withdrawal operation

23. Unsuccessful withdrawal operation due to click cancel after insert card, pin number,

Language, account type, withdrawal operation &amount to be withdrawal

***Test case for Calculator***

1) Test all the basic functionality +,-,\*, /. Results should be as accepted.

2) Check other complex functionality like sqrt for both +ve and -ve Numbers.

3) Divide by Zero. Most popular test case

4) Few expressions like 2+-3, -3+-3, -3-3...Must be tested.

5) Perform some operation (+,\*..etc.) number which will fill up the screen.

6) = button must be tested.

7) Screen should clear up on pressing AC.

8) Multiply by Zero.

9) Multiplication of two negative numbers must be positive. (-3\*-3 = 9)

TC1: Does the calculator turn on when the on button is pressed

TC2: Does it display the number on the screen that was pressed

TC3: If we enter 2 and then the plus symbol "+" and then enter2 again, then does it display the answer "4" or not.

TC4: Same way for all the buttons like \*, /,-, %, square roots and all

TC5: When we press the clear button then is the screen display reduced to "0" or not

***Test cases for one rupee coin box (telephone Box)***

Prerequisite: Phone is attached to a working Tele line.

1. Lift the handset n check for tone

2. Lift the handset n check for "Insert coin message"

3. Insert 1 Re coin n check for "Dial" message.

4. Insert other than 1 Re coin and check what happens.

5. Insert 1 Re coin n dial a valid number

6. Insert 1 Re coin n dial an invalid number

7. Insert 1 Re coin n wait for a long time without dialing

8. Insert 1 Re coin n keep the hand set

9. Insert more than 1 coin n dial the number

10. Insert 1 Re coin n check the time got displayed

11. Insert 1 Re coin n check whether time getting reduced by 1sec or not.

12. Insert 1 Re coin n check whether it’s prompting the user when time limit about to get over

13. Insert 1 Re coin before it prompts the user

14. Insert 1 Re coin when it prompts the user

15. Insert duplicate 1 Re coin

16. Check Redial option

***Test cases for any credit card***

1. Test the size of the card
2. Test the color of the card
3. Test the thickness
4. Bank name should be there
5. Material used for card should not be harmful
6. Card should not break if thrown from a certain height
7. Card should not be very flexible
8. Magnetic strip should be at proper place
9. Magnetic strip have no effect in different environmental conditions
10. Card contains the name of the holder
11. Card contains the expiry date
12. Card contains account number
13. If we swipe the card, machine is accepting it

***Test cases for Combo box***

1. Select the list box of the combo

2. See whether the list box elements are sorted alphabetically.

3. If you enter a letter, only the list box elements with the letter typed should be highlighted.

4. The keyboard up and down should be navigable.

5. If there are just 8 elements in the list box, scroll for the combo not necessary.

**Email address**

|  |  |
| --- | --- |
| **Valid Email address** | **Reason** |
| email@domain.com | Valid email |
| firstname.lastname@domain.com | Email contains dot in the address field |
| email@subdomain.domain.com | Email contains dot with subdomain |
| firstname+lastname@domain.com | Plus sign is considered valid character |
| email@123.123.123.123 | Domain is valid IP address |
| email@[123.123.123.123] | Square bracket around IP address is considered valid |
| "email"@domain.com | Quotes around email is considered valid |
| 1234567890@domain.com | Digits in address are valid |
| email@domain-one.com | Dash in domain name is valid |
| \_\_\_\_\_\_\_@domain.com | Underscore in the address field is valid |
| email@domain.name | .name is valid Top Level Domain name |
| email@domain.co.jp | Dot in Top Level Domain name also considered valid (use co.jp as example here) |
| firstname-lastname@domain.com | Dash in address field is valid |

|  |  |
| --- | --- |
| **Invalid Email address** | **Reason** |
| plainaddress | Missing @ sign and domain |
| #@%^%#$@#$@#.com | Garbage |
| @domain.com | Missing username |
| Joe Smith <email@domain.com> | Encoded html within email is invalid |
| email.domain.com | Missing @ |
| email@domain@domain.com | Two @ sign |
| .email@domain.com | Leading dot in address is not allowed |
| email.@domain.com | Trailing dot in address is not allowed |
| email..email@domain.com | Multiple dots |
| あいうえお@domain.com | Unicode char as address |
| email@domain.com (Joe Smith) | Text followed email is not allowed |
| email@domain | Missing top level domain (.com/.net/.org/etc) |
| email@-domain.com | Leading dash in front of domain is invalid |
| email@domain.web | .web is not a valid top level domain |
| email@111.222.333.44444 | Invalid IP format |
| email@domain..com | Multiple dot in the domain portion is invalid |

***Test Cases for lift***

1. Check when you press from the outside of the lift it should be opened when it is in ground floor

2. Verify it should give a beep when it reaches opens you

3. Check it should display in the outer box that from which floor it comes to reach us

4. Check when you step in to the lift after 10 seconds when it knows nothing in the door it to be closed automatically

5. Check when you give or press the number to which up to the floor it be activated

6. Check when you press different no`s it should be highlighted

7. Check up to the capacity of the lift only the load is given

8. Verify when you are going upwards on the first floor it any one pressed the lift it should stop there

9. Verify on reaching the correct floor it should be automatically stopped and open

10. Verify when the lift is empty when any one touches it should reach very fast.

***Test cases of GOOGLE search engine***

1. The Google logo should be displayed at the top.

2. It should have text box to do Search.

3. If you enter nothing and just clicked search the nothing should occur.

4. If you enter Special Characters like !,@,#,$ etc. it should not search anything.

5. It should do the same search either clicking on Search button or pressing enter key.

6. It must have advanced Search option.

7. If a person has searched irrelevant it should display "Did you mean" link.

8. On clicking "Did you mean" it should modify Search of its own.

9. It should have Sign IN option.

10. It should have language options.

***Test Cases for Glass of water***

1. It should be empty from one side and base on other side

2. It should be light in weight

3. It should be easy to hold in hand

4. It should be of round shape from top and should be of plain base

5. Water should not leak

Negative: 6.Throw it to check the dent or break in body

7. If it is glass body then put extremely hot water to check stress

***Test cases for keyboard***

1. To check the keyboard company

2. To check the keyboard category i.e. normal keyboard or multimedia keyboard

3. To check the total no of keys in that keyboard

4. To check the keyboard type i.e. normal or PS/2

5. To check the keyboard color i.e. white or black

6. To check default Num Lock should be in on condition

7. By Default caps lock and scroll lock should be in off condition

8. To check the keyboard wire length

***Test cases for Mobile Phone***

1) Check whether Battery is inserted into mobile properly

2) Check Switch on/Switch off of the Mobile

3) Insert the sim into the phone n check

4) Add one user with name and phone number in Address book

5) Check the Incoming call

6) Check the outgoing call

7) Check Send/receive messages for that mobile

8) Check all the numbers/Characters on the phone working fine by clicking on them.

9) Remove the user from phone book n check removed properly with name and phone number

10) Check whether Network working fine.

11) If it’s GPRS enabled check for the connectivity.

***Test cases for mouse***

1. Objective is to verify that when we click the right mouse button is it going to open list of that particular file or anything.

Description (test case) is point to one file or anything and click the right mouse button

Expected is it opens the list regarding that file (eg:list includes properites and etc)

2.Objective is to verify that when we click the left mouse button twice is it going to open that particular file or not

Description is point to one file and double click on that

Expected is it open that particular file

3. Objective is to verify the scroll button scrolls the particular page or not

Description is point to one page or file and use the scroll button

Expected is it scrolls the page down or up

**Test Case For Notepad**

1) Check whether file is saved after entering data

Open Note pad application.

File menu -> new

Enter Some Text ("hello welcome to India")

File menu -> Save

select the path and give the file name (welcome.txt)

Click on Save button

Expected Results : file should be saved in the specified location

2) Check the functionality of Save as

Open Note pad application.

File menu -> Open

Give the Path and select the file (welcome.txt)

File menu -> Save as

select the path and give the file name (welcome1.txt)

Click on Save button

Expected Results : file should be saved in the specified location

3) Check whether validation msg has been generated on giving same name for saving

Open Note pad application.

File menu -> Open

Give the Path and select the file (welcome.txt)

File menu -> Save as

select the path and give the file name (welcome.txt)

Click on Save button

Expected Results : Application should generate a validation message stating, "Are you sure you want to replace the file" with Yes/no Options

4) Check whether edits are saved

Open Note pad application.

File menu -> Open

Give the Path and select the file (welcome.txt)

Edit the file by adding some text (have a nice day)

File menu -> Save

Expected Results : updated File should be saved

5) Check the functionality of Close button or exit Menu after editing file

Open Note pad application.

File menu -> Open

Give the Path and select the file (welcome.txt)

Edit the file by adding some text (have a nice day)

File menu -> Exit or Click X button or top right corner of the notepad window

Expected Results : Application should generate a validation message stating, "Do you want to save changes to %path%" with Save, dont save, cancel buttons

6) Check the functionality of Close button or exit Menu without editing file

Open Note pad application.

File menu -> Open

Give the Path and select the file (welcome.txt)

File menu -> Exit or Click X button or top right corner of the notepad window

Expected Results : Application should close

7) Save the notepad File in hard drive(c or d drove)

where there is no space

Open Note pad application.

File menu -> new

Enter Some Text ("hello welcome to india")

File menu -> Save

select the path and give the file name (wcom.txt)

Click on Save button

Expected Results : File Should Not be saved in the specified path and should generate validation message

***Online shopping app***

There are many scenario you can test.Not knowing your application I am just giving you some important points:-

1. Adding Item in shopping cart
2. Deleting item from shopping cart
3. Verifying Item count after adding and deleting
4. Verifying Coupon codes-If your application supports that (Coupons help you redeem the points)
5. Verifying Sales price, MRP as as per data you have been provided
6. Verifying Payment Methods-PayPal, Google Checkout, Other payment methods
7. Verifying purchasing of any item when it is not in stock
8. Verifying shipping methods and shipping charges if applicable
9. Verifying purchasing with Taxable cities(Minnesota and Wisconsin are taxable cities in US) and non-taxable cities
10. Verify with Different credit card types-Visa,Master,Discover,Amex
11. Verify with expired credit card.

***Test cases for Paper***

1. To check the paper quality

2. To check the paper color

3. To check the paper thickness

4. To check the A4 sheet empty or not

5. To check the size of the paper

6. To check whether it is folded or not

7. To check whether it is accept to write via pen or pencil

8. To check the company of the A4 Sheet

***Registration Form***

* Here’s a set of test cases that include validation criteria:
* Launch an IE browser and go to the Registration Form.
* Verify the registration page opens.
* On the registration page, click the mouse in the First Name field.
* Leave the First Name and Last Name fields blank and click on the Submit button.
* Verify an error message appears saying you cannot leave the First Name and Last Name fields blank.
* Enter 50 characters in both the First and Last Name fields.
* Verify the names are accepted.
* Enter more than 50 characters in both the First and Last Name fields.
* Verify an error message appears saying you cannot enter more than 50 characters in the First Name and Last Name fields.
* Enter numbers in the First and Last Name fields.
* Verify an error message appears saying you cannot enter numbers in the First and Last Name fields.
* Enter the characters "`~!@#$%^&\*()\_:";'{}[]+<>?,./" in the First and Last Name fields.
* Verify an error message appears saying you cannot enter "`~!@#$%^&\*()\_:";'{}[]+<>?,./" characters in the First and Last Name fields.
* Type “John” in the First Name field.
* Click the mouse in the Last Name field.
* Type in “Doe” in Last Name field.
* Click on the Submit button.
* Click on registration List in the left nav bar.
* Verify the Name “John Doe” is now present in the registration list.

***Test cases for one Rupees Coin Box (Telephone box)***

Positive test cases:

TC1: Pick up the Handset

Expected: Should display the message “Insert one rupee coin"

TC2: Insert the coin

Expected: Should display the message “Dial the Number"

TC3: When you get a busy tone, hang-up the receiver

Expected: The inserted one rupee coin comes out of the exit door.

TC4: Finish off the conversation and hang-up the receiver

Expected: The inserted coin should not come out.

TC5: During the conversation, in case of a local call, (assume the duration is of 60 sec), when 45 as are completed

Expected: It should prompt you to insert another coin to continue by giving beeps.

TC6: In the above scenario, if another coin is inserted

Expected: 60 sec will be added to the counter.

TC7: In the TC5 scenario, if you don't insert one more coin.

Expected: The call gets ended.

TC8: Pick up the receiver. Insert appropriate one rupee coin; Dial the number after hearing the ring tone. Assume it got connected and you are getting the ring tone. Immediately you end up the call.

Expected: The inserted one rupee coin comes out of the exit door.