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Project Team

B-BAY ECOMMERCE SYSTEM
SYSTEM TEST PLAN

Delivery Date

January 3rd, 2023

PREPARED FOR:

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November 29, 2022

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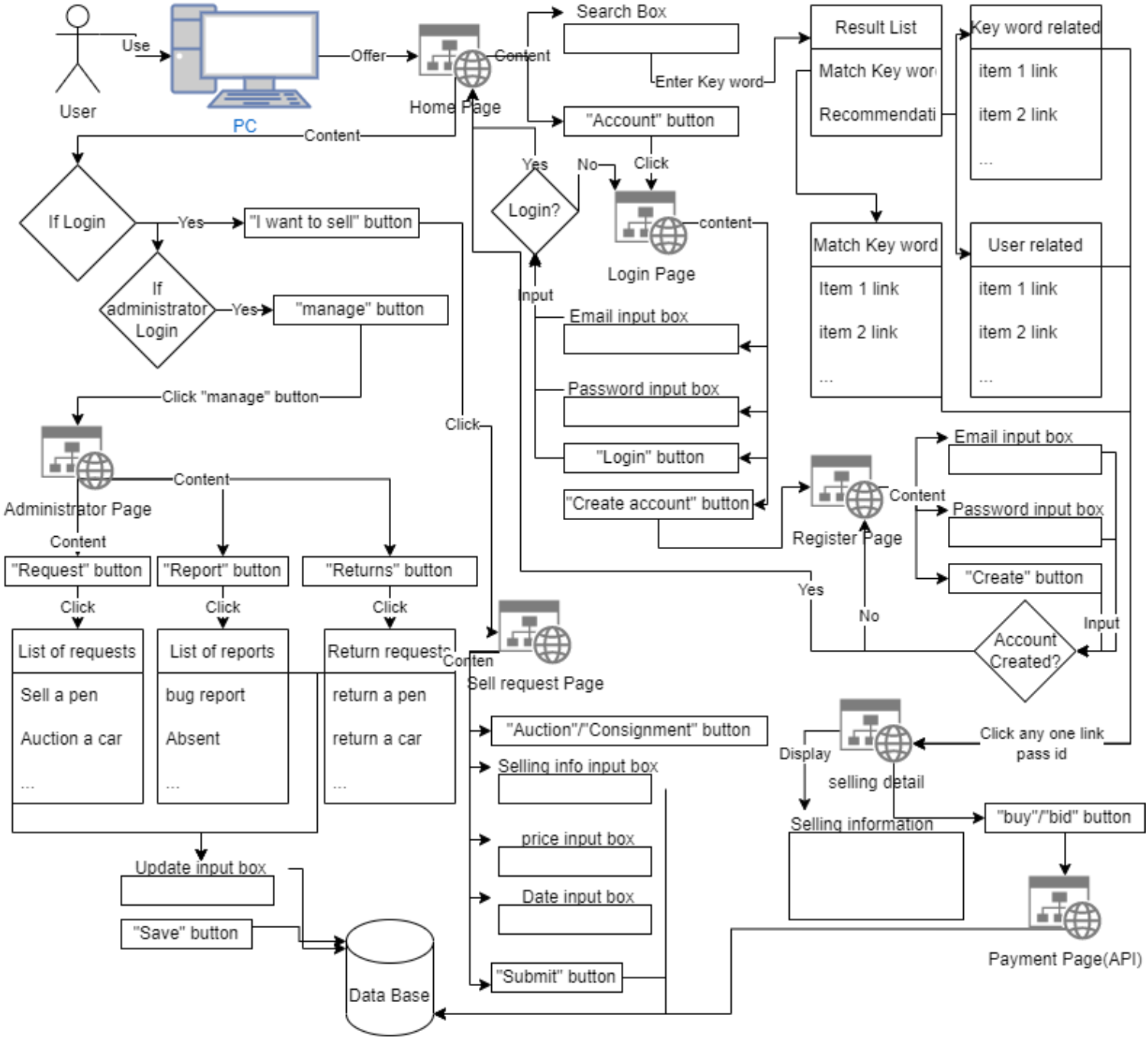
A.Introduction

A.1 Purpose of Document

This document is important as it entails all the details of system testing and shows how our company meets the client's requirement needs. The requirements were divided into their functionalities which will be seen later in this documentation. This documentation is presented by us, the "alpha test team" and it is strictly based on RD provided to us. Hence, we can call it a bias free document. Some black box techniques are used here.

A.2 Scope of Product



A.3 Acronyms

STP: System Test Plan

CPU: Central processing unit

OS: Operating system

A.4 List of Abbreviations

API	Application programming interface
B Bay	Brookings Bay
Bid	Auction
DB	Database
ID	Identification number
SS	Screenshot

A.5 Definitions

Working days = Mon 8am-5pm, Tue 8am-5pm, Wed 8am-5pm, Thur 8am-5pm

A.6 References

Portico Regression Testing Policy. (n.d.). Retrieved March 27, 2016, from https://www.portico.org/wp-content/uploads/2017/12/Portico-Regression-Testing-Guidelines-Operations.pdf

A.7 Overview of Rest of Document

The rest of STP will clarify details of software testing with list of requirements coverage, approaches and test cases for transaction flow test, non-functional requirements using black box test techniques.

B. Test Items

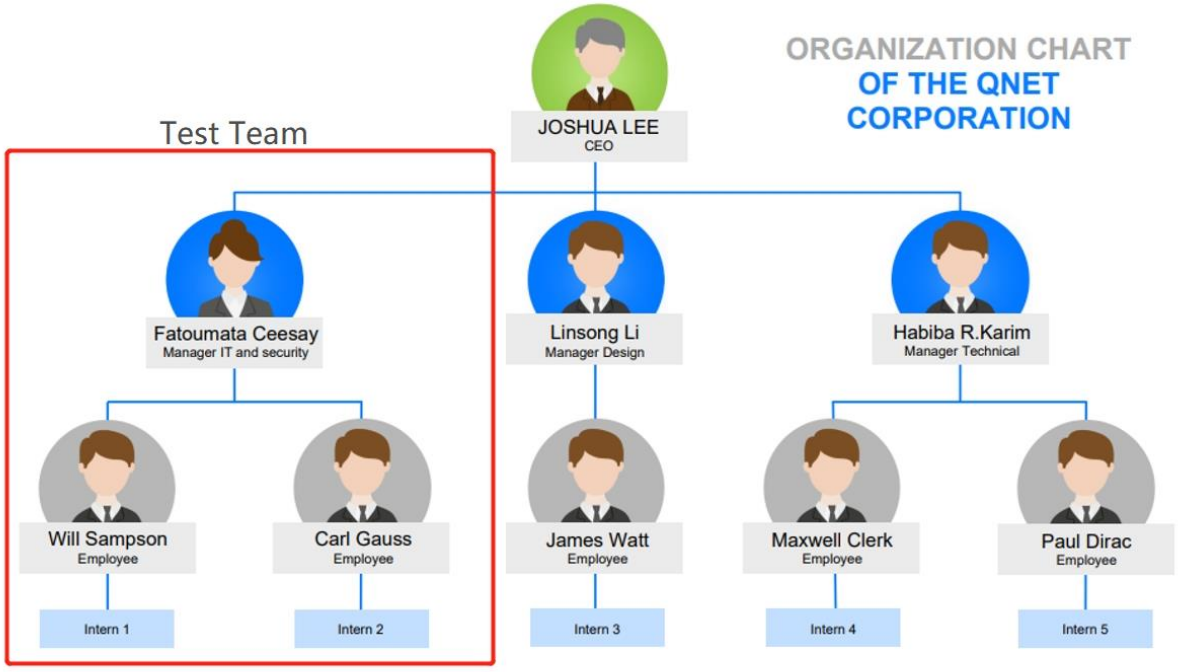
B.1Requirements to be tested

No.	FWBS No.	Test description
FT1	1.1	Create administrator account
FT2	1.3	Create Buyer/Seller account
FT3	1.2	Login with Buyer/seller account
FT4	2	Create a request of auction or consignment
FT5	3	Check the function of the 3 types of lists
FT6	4.1	Try search a item in Home page
FT7	4.2	Check if Notificaiton/FAQs/Policy is working
FT8	5.4 4.3	Check if wish list display correctly
FT9	5.3 4.4	Check if Cart list is working
FT10	5.5 4.7	Try if chat allow communication to right target
FT11	4.8	Check if history purchase display correctly
FT12	5.1 5.3 5.4 5.6	Check if merchandise info display correctly
FT13	5.2	Try to Buy a consignment/auction item
FT14	5.5	Check if chat with seller function works

C. Approach

C.1Software Testing Team

The Qnet test team is concurrently handled by our manager of security as the following chart of organization shown.



C.2 Software Testing Process

Test team should setup test environment before ST1, then follow test schedule, execute final test cases for each claster and record results.

C.3 Hardware & Software Requirements for Testing

CPU:

- Dual-core 1.8GHz processor or Quad-core 2.4-3.5GHz CPU, (3.Intel - Core i9-9900X recommended.
- Must 64-Bit CPU and required for VMWare Workstation 8

RAM:

- 4GB DDR3 (32GB recommended)

Network Interface:

- Network interface for BACSS test software port 1(must be wired to connect to the DUT)

OS:

- Windows 10 Version (1903.18362.592)

Web Browser:

- Google Chrome (Version 80.0.3987.87)

C.4System Test Schedule table

No.	FWBS No.	Test description	Executor	Date	P/F
FT1	1.1	Create administrator account	Linsong	5/1/2023	
FT2	1.3	Create Buyer/Seller account	Habiba	5/2/2023	
FT3	1.2	Login with Buyer/seller account	Fatoumata	5/3/2023	
FT4	2	Create a request of auction or consignment	Linsong	5/7/2023	
FT5	3	Check the function of the 3 types of lists	Fatoumata	5/9/2023	
FT6	4.1	Try search a item in Home page	Habiba	5/12/2023	
FT7	4.2	Check if Notificaiton/FAQs/Policy is working	Fatoumata	5/13/2023	
FT8	5.4 4.3	Check if wish list display correctly	Linsong	5/16/2023	
FT9	5.3 4.4	Check if Cart list is working	Habiba	5/17/2023	
FT10	5.5 4.7	Try if chat allow communication to right target	Habiba	5/20/2023	
FT11	4.8	Check if history purchase display correctly	Fatoumata	5/21/2023	
FT12	5.1 5.3 5.4 5.6	Check if merchandise info display correctly	Linsong	5/22/2023	
FT13	5.2	Try to Buy a consignment/auction item	Habiba	5/23/2023	
FT14	5.5	Check if chat with seller function works	Habiba	5/27/2023	

D.Transaction flow testing

FT1. FWBS1.1 Create administrator account

This is the functionality that will enable the administrator to setup their account.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Enter invalid email address and password in SS1	See SS1	
Enter valid email address in the form in SS1	See SS3	
Enter password < 6 chars in SS1	See SS4	
Enter password of length greater than or equal to 6 chars in SS1	See SS6	
Click on the register button in SS1	See SS6	

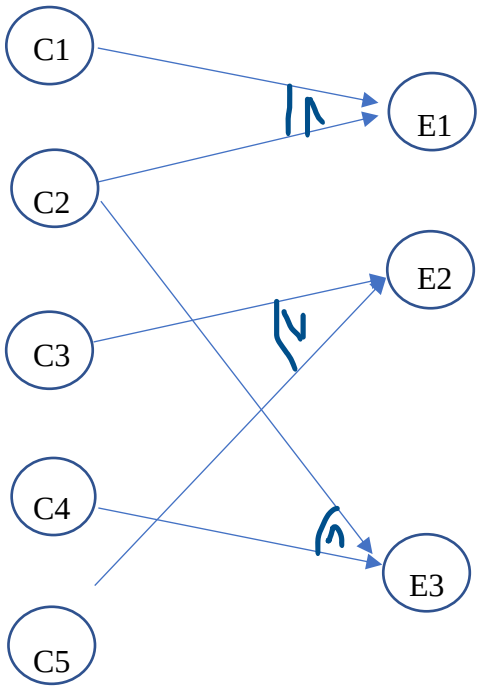
b. Negative Test

Input	Description	Expected output	Actual output
Enter blank space for email address	Empty email address	Register button won't be activated	

Enter invalid format for email address.	Opposite of required email format.	Accepts format and saves info like that.	
Click on register button quickly 7 consecutive times.	Clicking multiple times to see how it affects response time.	Slight buffering of the page for not more than 7 seconds.	

c. CEG & DT with BVA

Causes	Effect
C1: Empty email	E1: invalid email
C2: lastname.firstname email format	E2: valid
C3: firstname.lastname email format	E3: invalid password
C4: Password < 6 characters	
C5: Password > 6 characters	



Decision table

	P1	**P2**	**P3**	**P4**	**P5**
Cause					
1	1	1	0	0	0
2	0	1	1	0	0
3	0	0	0	0	1
4	0	0	1	1	0
5	0	0	0	0	1
Effect					
a	1	1	0	0	0
b	0	1	0	0	1
c	0	0	1	1	1

Test case table

Partitions	Test data	Expected output	Actual output
P1	Empty email textbox	Register button won't be activated	
P2	Enter invalid for email format.	A page that prints "invalid email format"	
P3	Enter valid for email format.	Valid email format is printed, and user is allowed to proceed to password step.	
P4	Enter a password length < 8 chars	"Invalid password" is printed	
P5	Enter a password length > 6 chars with at least 1 digit and 1 special character.	Valid password is printed and user will get the chance to click on the register button.	

d. Domain test

Input variable Email and Password: Email=X; Password= Y ;

Valid Class Equivalence Class: Email=all characters; Password=all characters

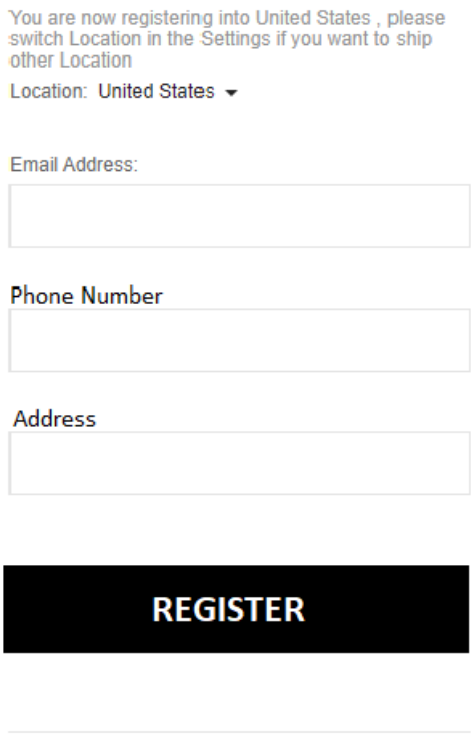
Variable	Input domain test data	Expected Output	Actual output

Email: X Password: Y	X= “JDoe@gmail.com” Y= “” as SS1	A page that printing “Invalid email”	
Email: X Password: Y	X=“John.Doe@gmail.com” Y= (more than 6 characters with one numeric and special character) as SS	A page that printing “Invalid Password”	
Email: X Password: Y	X= “John.Doe@gmail.com” Y= >6 characters with one numeric and one special character as in SS	A page that printing “Confirmation sent to email”	

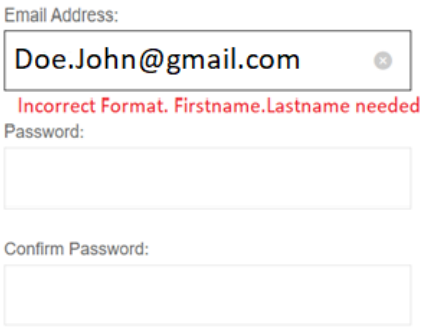
Final test cases

Test case No.	Test data	Expected output	Actual output
TF1-1	Enter “” and “” for email address and Password.	See SS1	
TF1-2	Enter Doe.John@gmail.com	See SS2	
TF1-3	Enter John.Doe@gmail.com	See SS3	
TF1-4	Enter “Test” as password	See SS5	
TF1-5	Enter “Testingcopy” as password	See SS6	

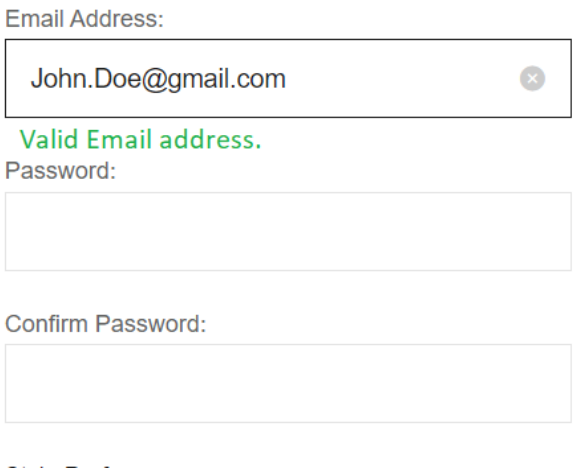
TF1-6	Enter ”Testingcopy@114” as password	See SS7	
TF1-7	Click on the register button	See SS6	



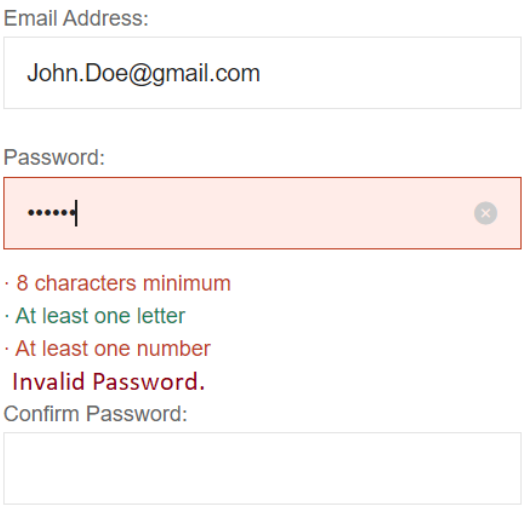
SS1



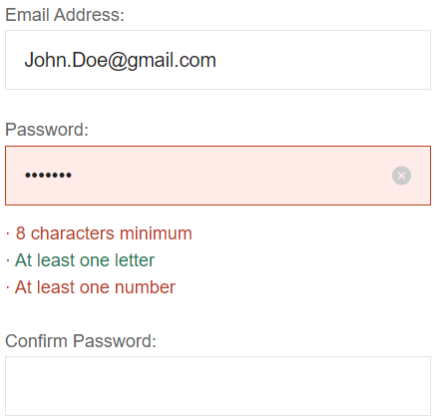
SS2


Email Address:
John.Doe@gmail.com
Valid Email address.
Password:
Confirm Password:

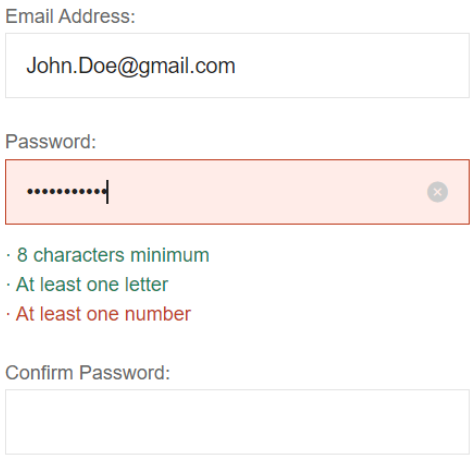
SS3


Email Address:
John.Doe@gmail.com
Password:
· 8 characters minimum
· At least one letter
· At least one number
Invalid Password.
Confirm Password:

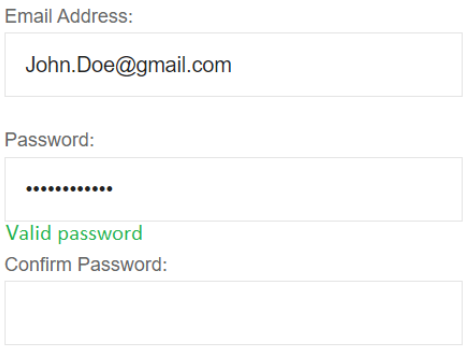
SS4


Email Address:
John.Doe@gmail.com
Password:
·····
· 8 characters minimum
· At least one letter
· At least one number
Confirm Password:

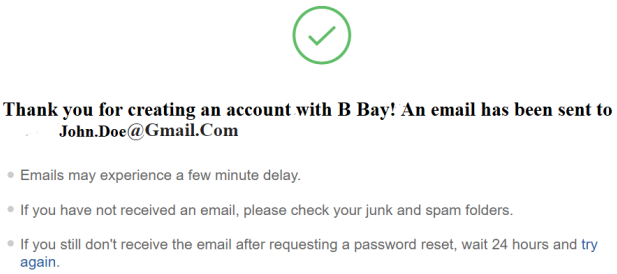
SS5


Email Address:
John.Doe@gmail.com
Password:
··········
· 8 characters minimum
· At least one letter
· At least one number
Confirm Password:

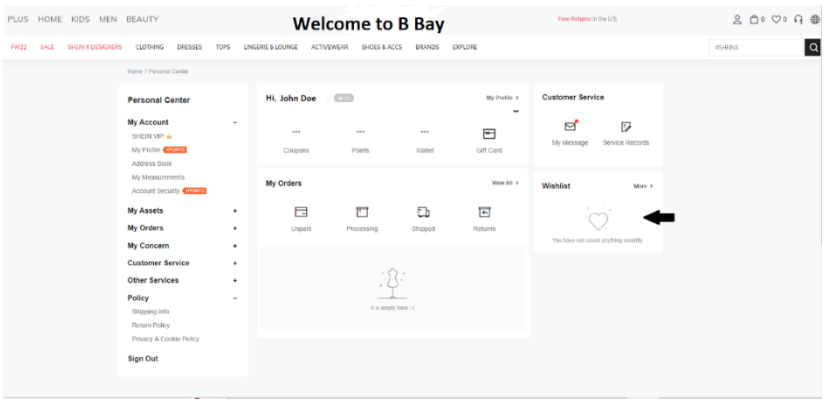
SS6


Email Address:
John.Doe@gmail.com
Password:
···········
Valid password
Confirm Password:

SS7



SS6



SS7

FT2. FWBS 1.2 Offer Login

This is the functionality that will enable all user types(Administrator, Buyer and Seller) to log into their accounts.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Enter accepted email address and password format first time user	"Username not found. New user? Click on sign up to register" will be displayed.	
Enter valid email address in SS8	SS8	
Enter password length < 6 characters in SS8	See SS9	
Enter password of length >= 6 chars in SS8	See SS14	
Click on the login button	See SS17.5	

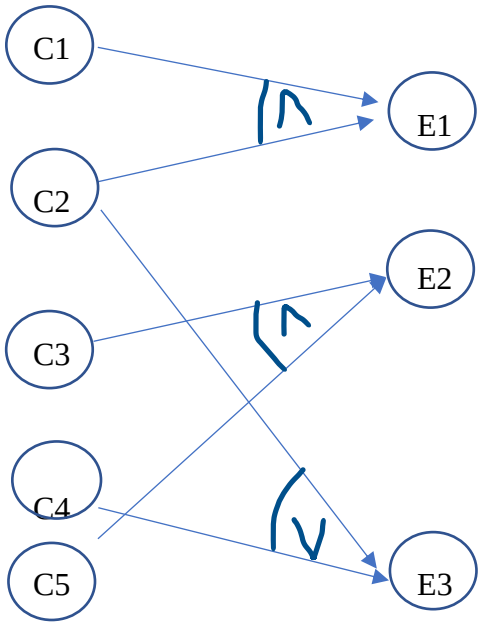
b. Negative Test

Input	Description	Expected output	Actual output
Enter blank space for email address and password	Empty email address and password	Login button won't be activated	
Enter lastname,firstname@gmail.com for email address.	Invalid email format	Prints wrong email format	
Click on login button quickly 7 consecutive times.	Clicking multiple times to see how it affects response time.	Slight buffering of the page for	

		not more than 7 seconds.	

c. CEG & DT with BVA

Causes	Effect
C1: First Time user	E1: invalid email
C2: Registered User	E2: invalid password
C3: Empty email and password	E3: valid
C4: Valid email and password	
C5: Invalid email and/or password	



Decision table

	P1	P2	P3	P4	P5
Cause					
1	1	0	0	0	0
2	0	1	1	0	0
3	0	0	0	0	1
4	0	0	1	0	0
5	0	0	0	0	1
Effect					
a	1	1	0	0	0
b	0	1	0	0	1
c	0	0	1	0	1

Test case table

Partitions	Test data	Expected output	Actual output
P1	Empty email textbox	Register button won't be activated	
P2	Enter wrong email format in SS7	A page that prints "invalid email format"	
P3	Enter valid email format in SS8	Valid email format is printed, and user is allowed to proceed to password step.	
P4	Enter a password length < 6 chars in SS8	"Invalid password" is printed	

P5	Enter a password with length > 6 chars in SS8	Valid password is printed and user will get the chance to click on the register button.	

d. Domain test

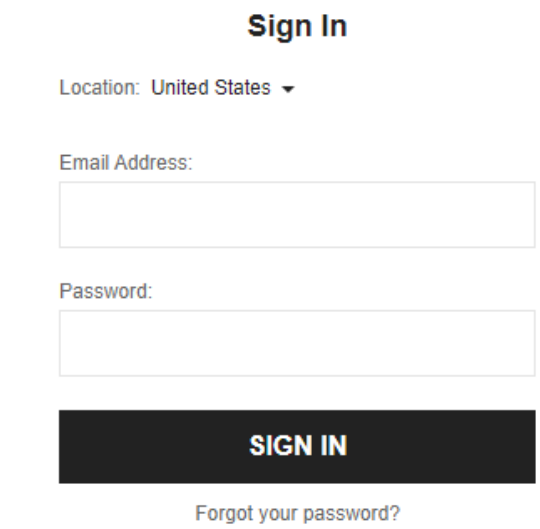
Input variable title and describe: Email=X; Password= Y ;

Valid Class Equivalence Class: Email=all characters; Password=all characters

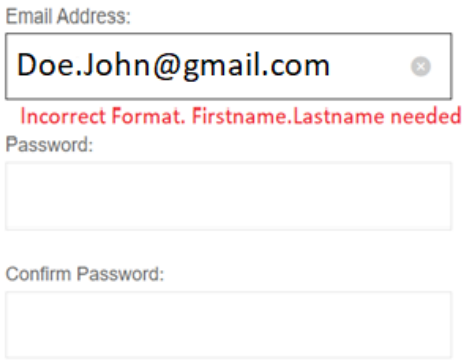
Variable	Input domain test data	Expected Output	Actual output
Email: X Password: Y	X= “JDoe@gmail.com” Y= “” as SS1	A page that printing “Invalid email”	
Email: X Password: Y	X=“John.Doe@gmail.com” Y= (more than 6 characters with one numeric and special character) as SS	A page that printing “Invalid Password”	
Email: X Password: Y	X= “John.Doe@gmail.com” Y= >6 characters with one numeric and one special character as in SS	A page that printing “Confirmation sent to email”	

Final test cases

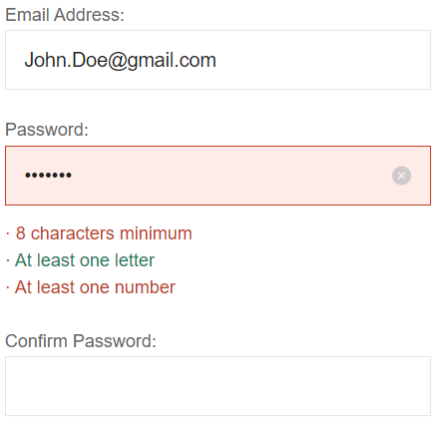
Test case No.	Test data	Expected output	Actual output
TF2-1	Enter “” and “” for email address and Password.	See SS8	
TF2-2	Enter Doe.John@gmail.com	See SS9	
TF2-3	Enter John.Doe@gmail.com	See SS10	
TF2-4	Enter “Test” as password	See SS11	
TF2-5	Enter “Testingcopy” as password	See SS12	
TF2-6	Clcik on “forgot password”	See SS17	
TF2-7	Enter “Testingcopy@114” as password	See SS15	
TF2-6	Click on the login button	See SS14	


Sign In
Location: United States
Email Address:
Password:
SIGN IN
Forgot your password?

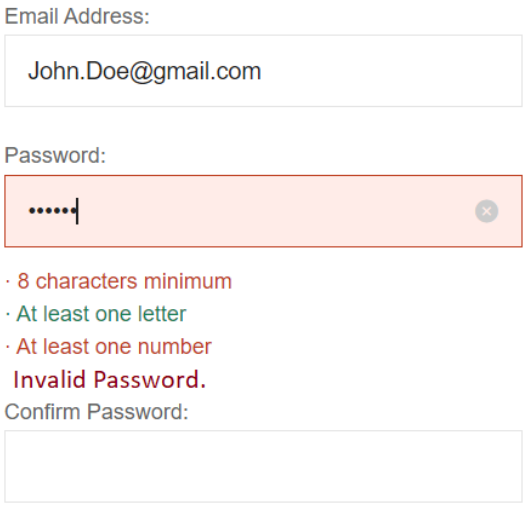
SS8


Email Address:
Doe.John@gmail.com
Incorrect Format. Firstname.Lastname needed
Password:
Confirm Password:

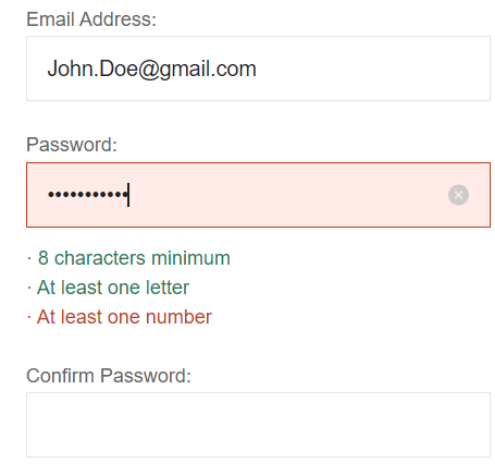
SS9


Email Address:
John.Doe@gmail.com
Password:
·····
· 8 characters minimum
· At least one letter
· At least one number
Confirm Password:

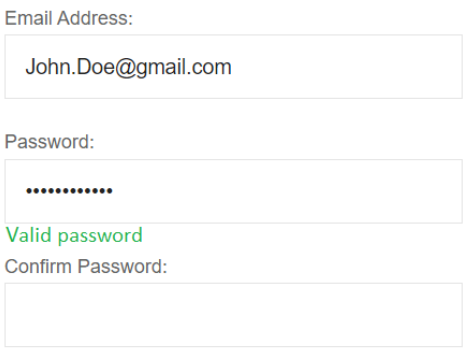
SS11


Email Address:
John.Doe@gmail.com
Password:
·····
· 8 characters minimum
· At least one letter
· At least one number
Invalid Password.
Confirm Password:

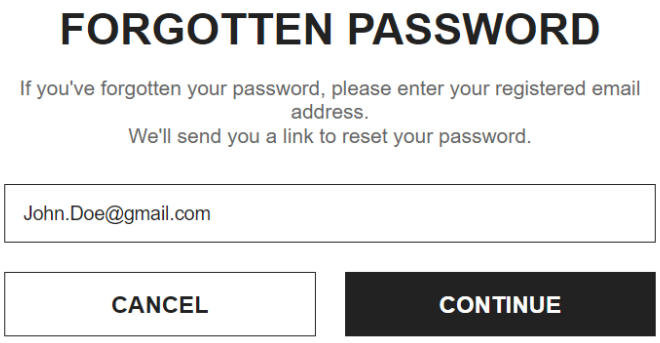
SS12



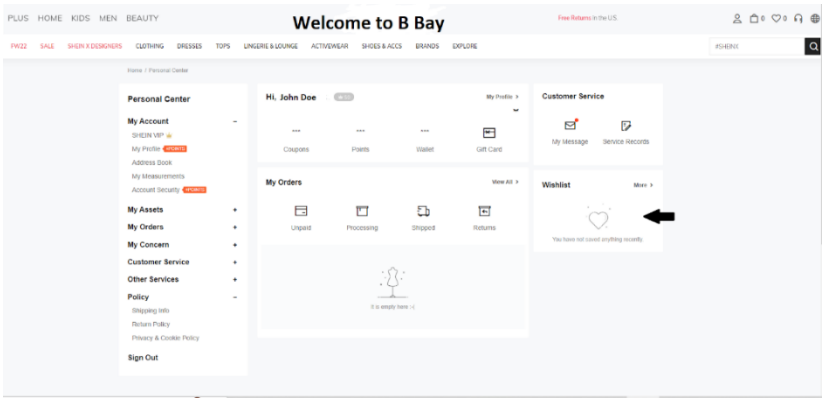
SS15



SS14



SS17



SS17.5

FT3. FWBS1.3 Create Buyer/Seller account

This functionality enables user (buyer and seller) to create

their accounts.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Enter blank email address and password	See SS14	
Enter email address in the form (firstname.lastname) as shown in SS	See SS17	
Enter password as shown in SS20	See SS20	
Enter password of length greater that or	See SS21	

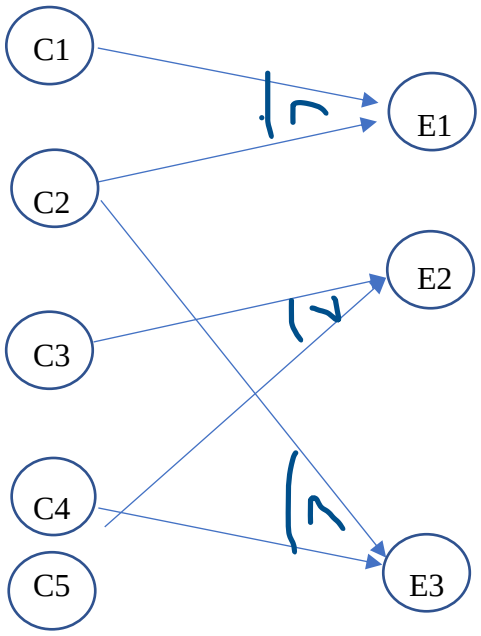
equal to 6 chars with at least one special char and numbers		
Click on the register button	Confirmation email will be sent to mail address provided for verification.	

b. Negative Test

Input	Description	Expected output	Actual output
Enter blank space for email address	Empty email address	Register button won't be activated	
Enter "lastname. firstname" format for email address.	Opposite of required email format.	Accepts format and saves info like that.	
Click on register button quickly 7 consecutive times.	Clicking multiple times to see how it affects response time.	Slight buffering of the page for not more than 7 seconds.	

c. CEG & DT with BVA

Causes	Effect
C1: Empty email	E1: invalid email
C2: lastname.firstname email format	E2: valid
C3: firstname.lastname email format	E3: invalid password
C4: Password < 6 characters	
C5: Password > 6 characters	



Decision table

	P1	**P2**	**P3**	**P4**	**P5**
Cause					
1	1	1	0	0	0
2	0	1	1	0	0
3	0	0	0	0	1
4	0	0	1	1	0
5	0	0	0	0	1
Effect					
a	1	1	0	0	0
b	0	1	0	0	1
c	0	0	1	1	1

Test case table

Partitions	Test data	Expected output	Actual output

P1	Empty email textbox	Register button won't be activated	
P2	Enter lastname. firstname for email format.	A page that prints "invalid email format"	
P3	Enter firstname. lastname for email format.	Valid email format is printed, and user is allowed to proceed to password step.	
P4	Enter a password less than 6 chars with no digits and no special characters.	"Invalid password" is printed	
P5	Enter a password more than 6 chars with at least 1 digit and 1 special character.	Valid password is printed and user will get the chance to click on the register button.	

d. Domain Test

Input variable Email and Password: Email=X; Password= Y ;

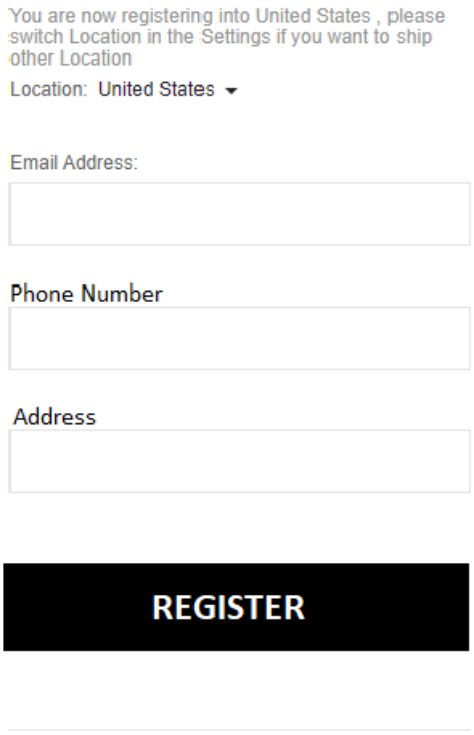
Valid Class Equivalence Class: Email=all characters; Password=all characters

Variable	Input domain test data	Expected Output	Actual output
Email: X Password: Y	X= "JDoe@gmail.com" Y= "" as SS1	A page that printing	

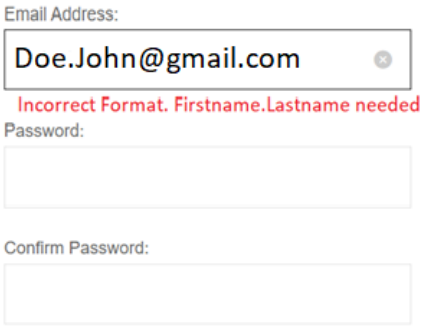
		"Invalid email"	
Email: X Password: Y	X="John.Doe@gmail.com" Y= (more than 6 characters with one numeric and special character) as SS	A page that printing "Invalid Password"	
Email: X Password: Y	X= "John.Doe@gmail.com" Y= >6 characters with one numeric and one special character as in SS	A page that printing "Confirmation sent to email"	

Final test cases

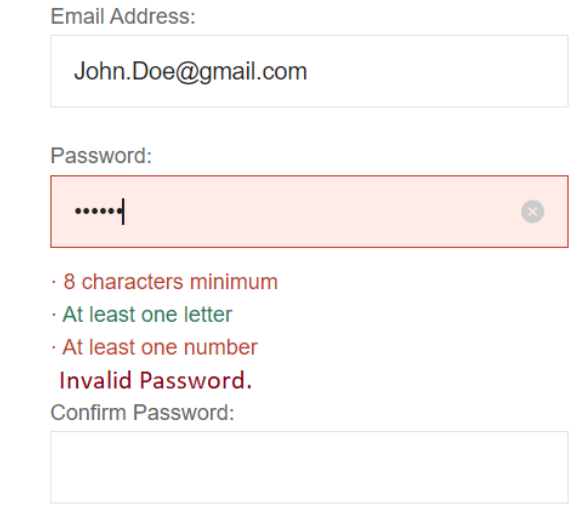
Test case No.	Test data	Expected output	Actual output
TF3-1	Enter "" and "" as email address and password	See SS14	
TF3-2	Enter Doe.John@gmail.com	See SS17	
TF3-3	Enter John.Doe@gmail.com	See SS20	
TF3-4	Enter "Test" as password	See SS21	
TF3-5	Enter "Testingcopy" as password	See SS22	
TF3-6	Enter "Testingcopy@114" as password	See SS23	
TF3-7	Click on the register button	See SS24, SS25 and SS26	


You are now registering into United States , please switch Location in the Settings if you want to ship other Location
Location: United States
Email Address:
Phone Number
Address
REGISTER

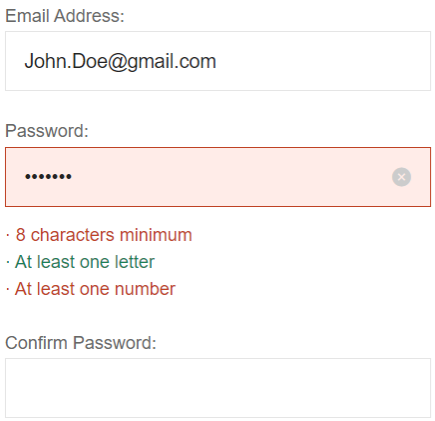
SS14


Email Address:
Doe.John@gmail.com
Incorrect Format. Firstname.Lastname needed
Password:
Confirm Password:

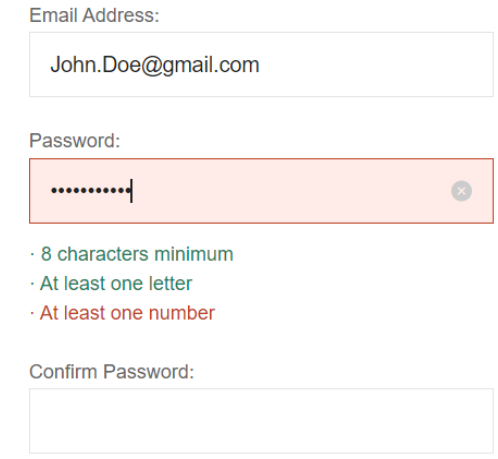
SS17


Email Address:
John.Doe@gmail.com
Password:
·····
· 8 characters minimum
· At least one letter
· At least one number
Invalid Password.
Confirm Password:

SS21

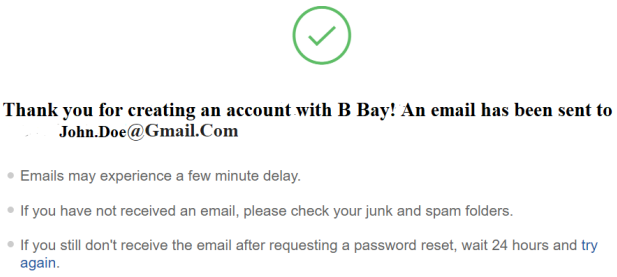

Email Address:
John.Doe@gmail.com
Password:
·····
· 8 characters minimum
· At least one letter
· At least one number
Confirm Password:

SS22



SS23

SS24



SS25

SS26

FT4. FWBS2 I want to sell

This cluster contains a request specification of selling. When users try to sell something with B-bay system, they should be able to submit a request of selling by functions in this cluster to the administrator.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
User selects Bid button	Goes to textbox for price	
User enters positive bid price	Submit request button	
User enters char as bid price	Error is displayed.	

User enters negative bid price	Error is displayed.	
Click on Consignment	Goes to textbox for price	
User enters item price as positive float	Submit request button	
User enters price of item as char	Error is displayed.	
User enters negative item price	Error is displayed.	

b. State Based Test

Input	State	Expected output	Actual output
Enters Bid/Selling price as negative value	No change	Error is displayed. No state change?	
Enters bid/selling price as char	No change	Error is displayed. No state change?	
Enters Bid/selling price as positive value	Change	User proceeds to submit	

c. CEG & DT with BVA

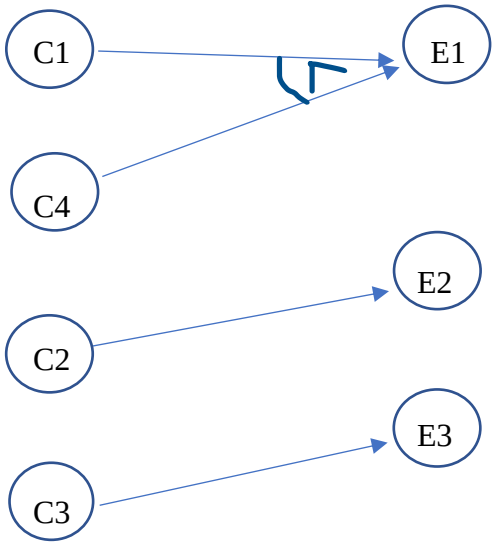
Causes Effect

C1: Buy option E1: Error

C2: Price <= $0 E2: Please select a value between $1- $3K

C3: $0 < Price < 3K E3: Acceptable format

C4: Price > 3K



Decision table

	P1	**P2**	**P3**	**P4**
Cause				
1	1	0	0	0
2	0	1	0	0
3	0	0	1	0
4	0	0	0	1
Effect				
a	1	0	0	1
b	0	1	0	0
c	0	0	1	0

Test case table

Partitions	Test data	Expected output	Actual output

P1	Clicks on Consignment/Bid	Separate consignment or Bid button present	
P2	User selects Bid button	Text box populates for the user to enter bid price	
P3	User enters bid/consignment price as positive float	Accepted and submitted	
P4	User enters char as bid/consignment price	Rejected and asked to re-enter price	
P5	User enters negative float bid/consignment price	Rejected an asked to re-enter price	

Final test cases

Test case No.	Test data	Expected output	Actual output
TF4-1	User clicks on consignment or Bid	User gets the choice to either sell or bid	
TF4-2	User selects Bid button	See SS4.1	
TF4-3	User enters -$1 as bid price	See SS4.3	
TF4-4	User enters $0 as bid price	See SS4.3	

TF4-5	User enters $4000 as bid price	See SS4.4	
TF4-6	User enters $50 as bid price	See SS4.5	
TF4-7	Proceeds to submission	See SS4.1	
TF4-6	Click on Sell button	See SS4.7	
TF4-7	Enter -$1 as Selling price	See SS4.3	
TF4-8	Enter $0 as selling price	See SS4.4	
TF4-9	Enter $4000 as selling price	See SS4.5	
TF4-10	Enter $50 as selling price	See SS4.6	
TF4-11	Proceed to submission	See SS4.1	

SS4.1


Sell options
Consignment
Name
Price(low limit)
Price(high limit)
Deadline
Description
Submit request

SS4.2


Sell options
Consignment
Name
Price(low limit)
Deadline
Description
Submit request

SS4.3


Sell options
Consignment
Or
Auction
Name
Price(low limit)
0.00
Deadline
Description
Submit request

SS4.4

SS4.5

SS4.6

SS4.7

FT5. FWBS3 Administrator Interface

This cluster contains a request specification of Administrator interface, which allow administrators to manage requests of selling or return and viewing error reports.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Click on view error list	List errors and time stamps	
Click on view sellers' list	List of sellers' request and time stamps	
Click on item description	Description of item pops up	
User clicks approve/disapprove button	Information is updated in database	

b. State based Test

Input	State	Expected output	Actual output
Click on view error report	Change	List of errors and time displayed?	
Click on view sellers' list	Change	Error is displayed. No state change?	
Click on item description	No change	Error is displayed. No state change?	
User clicks approve/disapprove button	Change	User proceeds to submit	

c. Negative testing

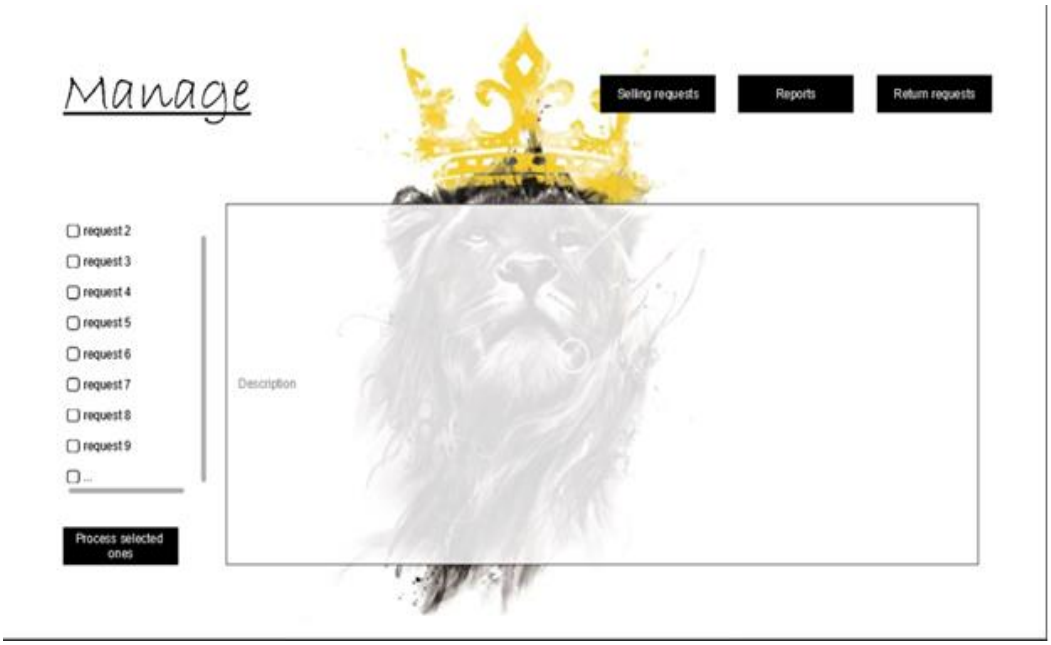
Input	Description	Expected output	Actual output
Click on view error report list	Admin checks what kinds of errors users encountered	List of errors and time displayed?	
Click on view sellers' list	Admin to see sellers' list	List of names of sellers and item information	
Click on item description	Description of items to be sold	Item info displayed	
User clicks approve/disapprove button	Approval/disapproval of request	Information is updated in database	

Test case table

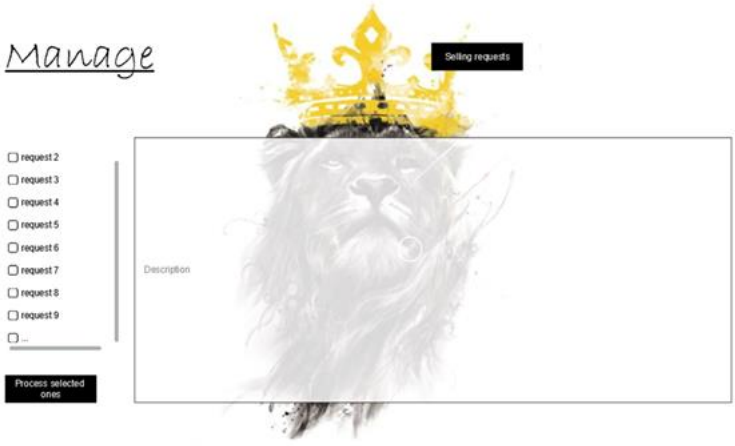
Partitions	Test data	Expected output	Actual output
P1	Click on view error list	List errors and time stamps	
P2	Click on view sellers' list	List of names of sellers and item information	
P3	Click on item description	Item info displayed	
P4	User clicks approve/disapprove button	Information is updated in database	

Final test cases

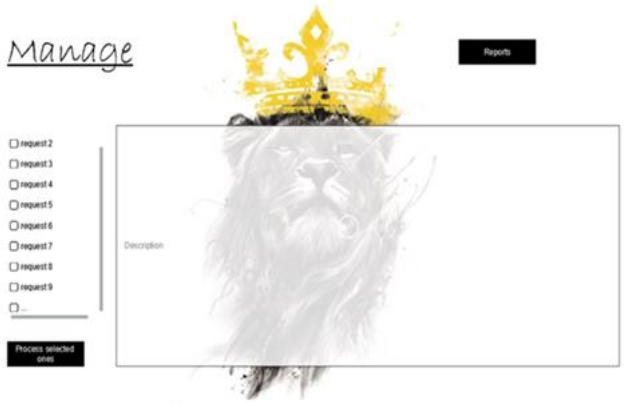
Test case No.	Test data	Expected output	Actual output
TF5-1	Click on view error list	List errors and time stamps	
TF5-2	Click on view sellers' list	See SS5.2	
TF5-3	Click on item description	See SS5.4	
TF5-4	User clicks approve/disapprove button	See SS5.1	


Manage
Selling requests
Reports
Return requests
request 2
request 3
request 4
request 5
request 6
request 7
request 8
request 9
...
Description
Process selected ones

SS5.1


Manage
Selling requests
request 2
request 3
request 4
request 5
request 6
request 7
request 8
request 9
...
Description
Process selected ones

SS5.2



SS5.3

SS5.4

FT6. FWBS4.1 Item search and recommendation

This allows users to search for what they are looking for. We use the data to give recommendations in the future.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Click “Search Item” as SS6.1	A page that shows with a panel where product can be search by its name	

Click “Save” as SS6.2	A page that shows the saved search history	
Click “Do not save search history” as SS6.2	A page that shows no search history	
Clicks on “Item” from “Item List” as SS6.1	A page that shows item’s information SS6.3	

b. Negative testing

Test data	Expected output	Actual output
Type “^&({$” on search panel as SS6.1	A page that shows orange but might get error search.	

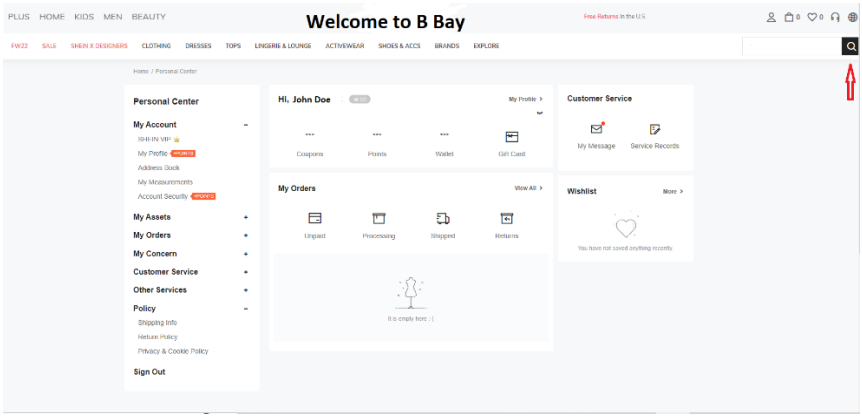
c. User documentation testing

User documentation	Test data	Expected output	Actual output
Go to search bar and search desired item	Click “Search Item” as SS6.1	A page that shows with a panel where product can be search by its name	
Select item from item list	Clicks on “Item” from “Item List” as SS6.1	A page that shows item’s information SS6.3	

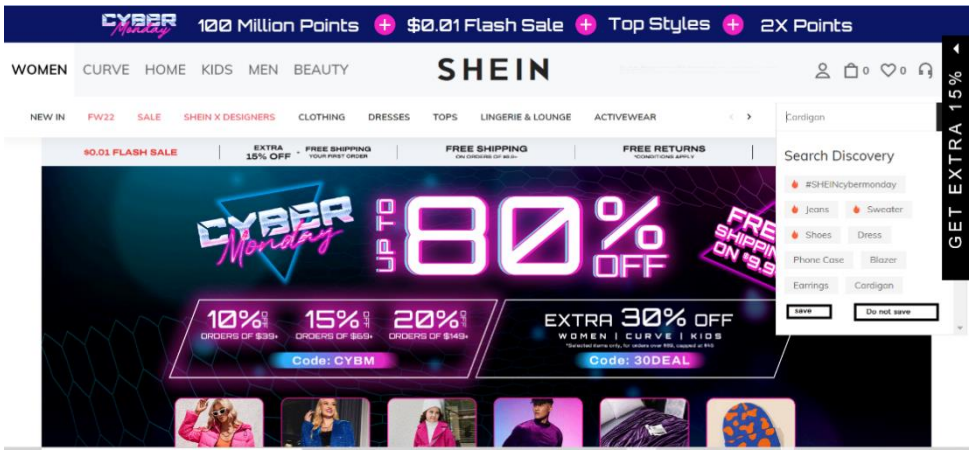
Final test cases:

Test case No.	Test data	Expected output	Actual output
TF6-1	Click “Search Item” as SS6.1	A page that shows with a panel where product can be search by its name as SS6.1	

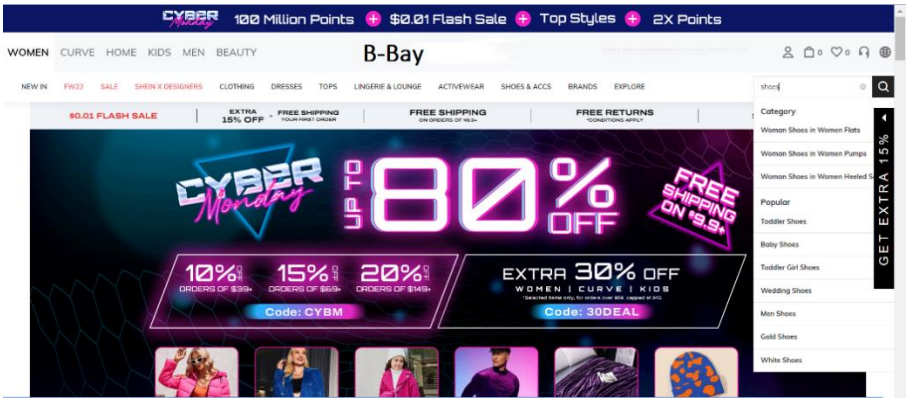
TF6-2	Click “Save” as SS6.2	A page that shows the saved search history as SS6.2	
TF6-3	Click “Do not save search history” as SS6.2	A page that shows no search history as SS6.1	
TF6-4	Clicks on “Item” from “Item List” as SS6.1	A page that shows with a panel where product can be search by its name and its information as SS6.3	
TF6-5	Type “^&({$” on search panel as SS6.1	A page that shows orange but might get error search as SS6.3	



Pic: SS6.1



Pic: SS6.2



Pic: SS6.3

FT7. FWBS4.2, 4.5, 4.6 (Display Notifications, Display FAQs and Display Policy)

This cluster merges the notification functionality, FAQs functionality and policy functionality.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Clicks on “Notification” as SS7.1	A page that shows all the notification as SS7.2	
Clicks on “FAQs” as SS7.1	A page that shows all the FAQs as SS7.3	
Clicks on “Policy” as SS7.1	A page that shows all the policy of B-Bay as SS7.4	

b. Negative testing

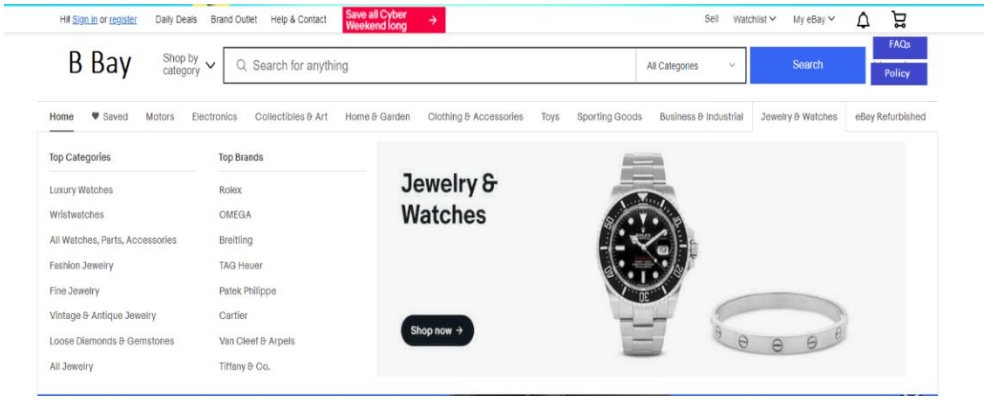
Test data	Expected output	Actual output
Clicks on “Register” as SS7.1	A page that shows “FAQs” as SS7.3	
Put water on the keyboard	A page that shows “FAQs” as SS7.3	

c. User Documentation testing

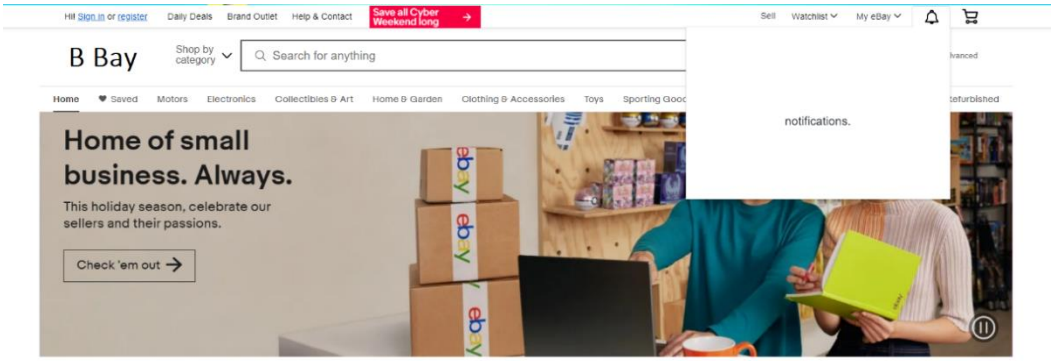
User documentation	Test data	Expected output	Actual output
Go to “FAQs” to see the FAQs	Clicks on “Notification” as SS7.1	A page that shows all the notification as SS7.2	
Go to “Notification” to see the most recent notification	Clicks on “FAQs” as SS7.1	A page that shows all the FAQs as SS7.3	
Go to “Policy” to see the policy of B-Bay	Clicks on “Policy” as SS7.1	A page that shows all the policy of B-Bay as SS7.4	

Final test cases:

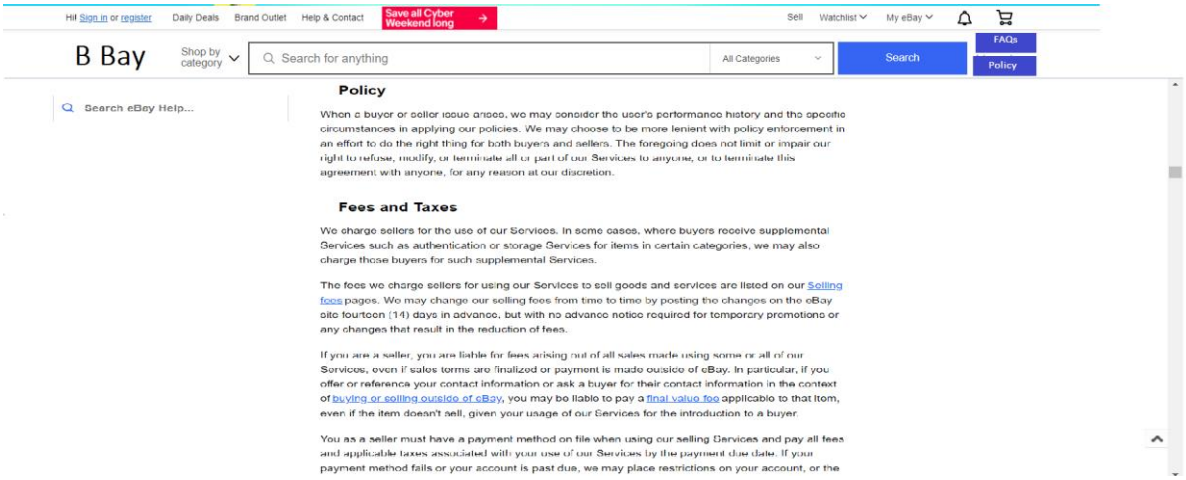
Test case No.	Test data	Expected output	Actual output
TF7-1	Clicks on "Notification" as SS7.1	A page that shows all the notification as SS7.2	
TF7-2	Clicks on "FAQs" as SS7.1	A page that shows all the FAQs as SS7.3	
TF7-3	Clicks on "Policy" as SS7.1	A page that shows all the policy of B-Bay as SS7.4	
TF7-4	Clicks on "Register" as SS7.1	A page that shows "FAQs" as SS7.3	
TF7-5	Put water on the keyboard	A page that shows "FAQs" as SS7.3	



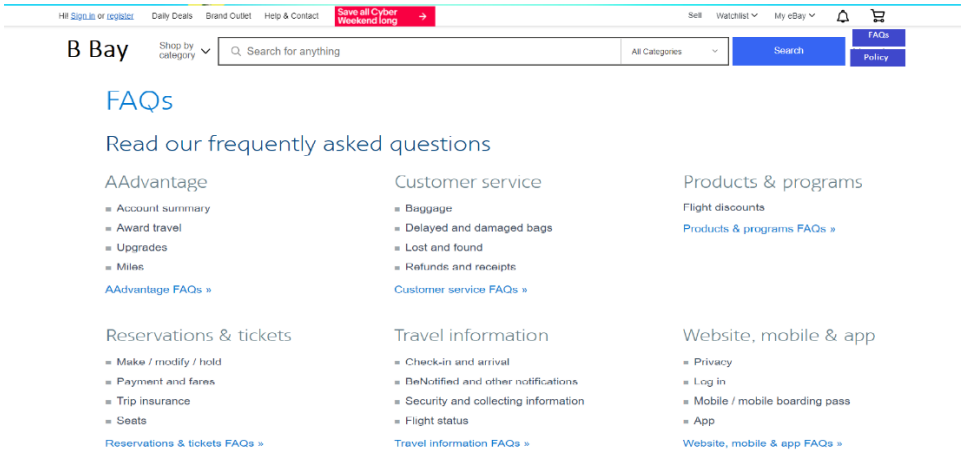
Pic: SS7.1



Pic: SS7.2



Pic: SS7.3



Pic: SS7.4

FT8. FWBS4.3 Display User's Wish List

This allows users to show the wish list and also allows them to edit the wish list. And this will offer adding to cart options.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Clicks on "Wish list" as SS8.1	A page that shows wish list as SS8.2	
Clicks on "Add to wish list" as SS8.2	A page that shows wish list as SS8.2	

b. Negative Testing

Test data	Expected output	Actual output
Clicks on "My Orders"	A page that shows wish list as SS8.2	
Throw mouse through the window	A page that shows wish list as SS8.2	

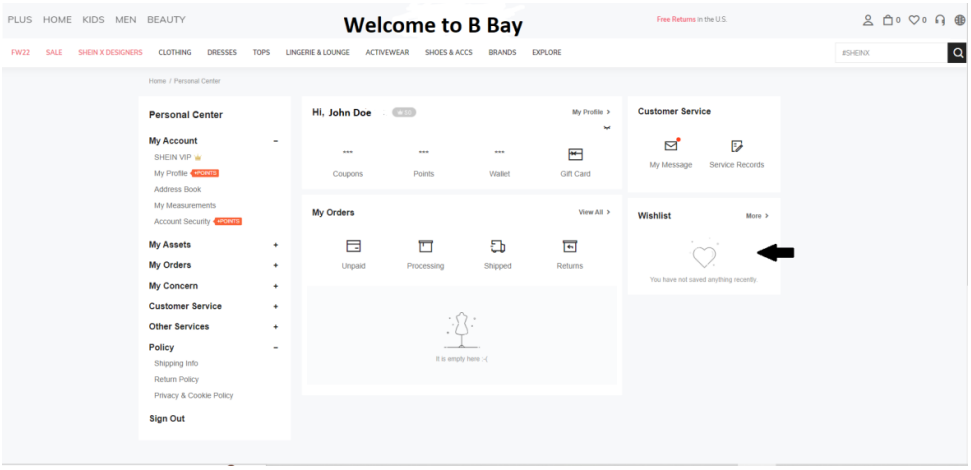
c. State Based testing

Current state	Test data	Expected next state	Expected output	Actual output

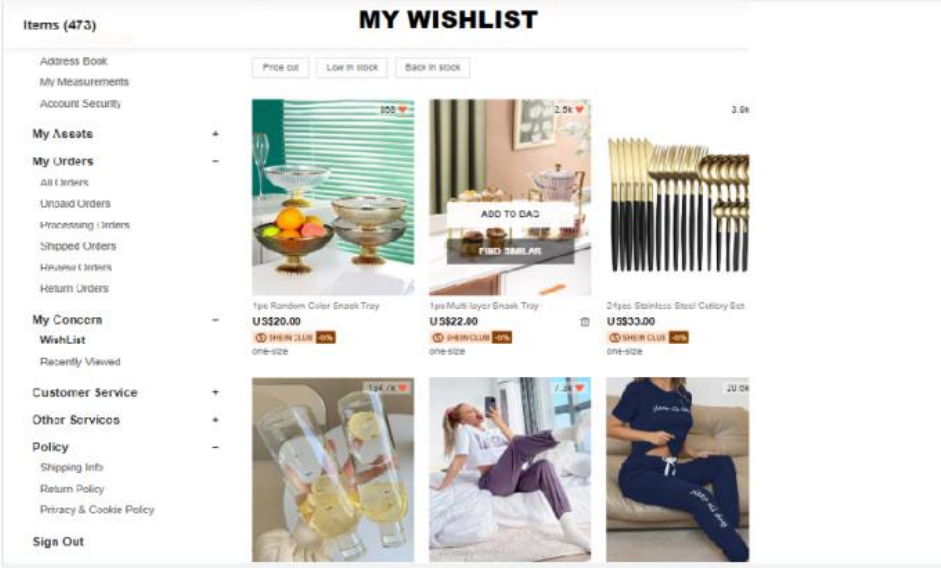
Wish list icon	Clicks on “Wish list” as SS8.1	Wish list	A page that shows wish list as SS8.2	
My Orders icon	Clicks on “My Orders”	Wish list	A page that shows wish list as SS8.2	

Final test cases:

Test case No.	Test data	Expected output	Actual output
TF8-1	Clicks on “Wish list” as SS8.1	A page that shows wish list as SS8.2	
TF8-2	Clicks on “Add to wish list” as SS8.2	A page that shows wish list as SS8.2	
TF8-3	Clicks on “My Orders”	A page that shows wish list as SS8.2	
TF8-4	Throw mouse through the window	A page that shows wish list as SS8.2	



Pic: SS8.1



Pic: SS8.2

FT9. FWBS4.4 Display Cart List

This will show the user list of products they bought and it will also allow the user

to edit the cart list.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Clicks on “Cart list” as SS9.1	A page that shows cart list as SS9.2	
Clicks on “Buy” as SS9.2	A page that shows buying information as SS9.2	

b. Negative Testing

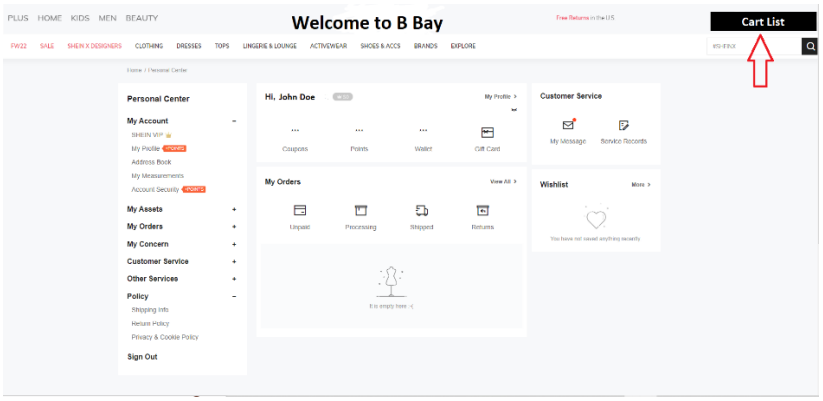
Test data	Expected output	Actual output
Clicks on “My Orders”	A page that shows cart list as SS9.2	
Throw mouse through the window	A page that shows cart list as SS9.2	

c. State based testing

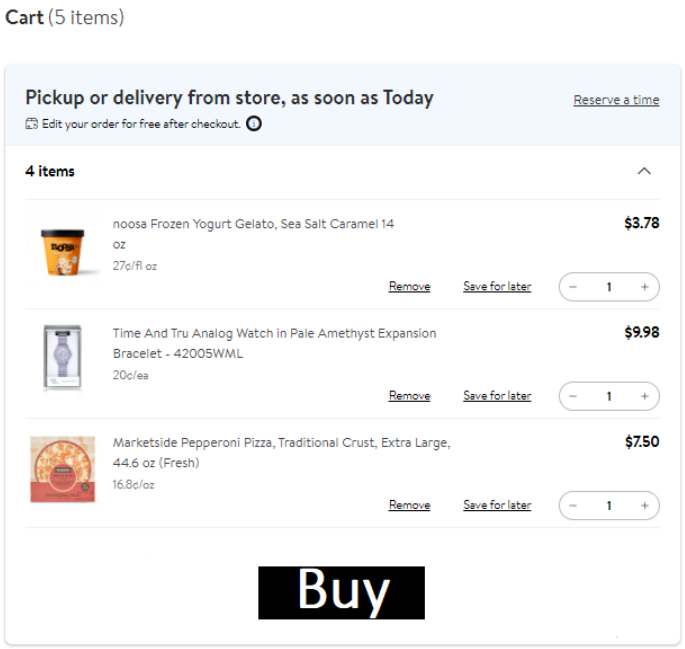
Current state	Test data	Expected next state	Expected output	Actual output
Cart list icon	Clicks on “Cart list” as SS9.1	cart list	A page that shows cart list as SS9.2	
My Orders icon	Clicks on “My Orders”	Cart list	A page that shows cart list as SS9.2	

Final test cases:

Test case No.	Test data	Expected output	Actual output
TF8-1	Clicks on “Cart list” as SS9.1	A page that shows cart list as SS9.2	
TF8-2	Clicks on “Add to cart list” as SS9.2	A page that shows buying information as SS9.2	
TF8-3	Clicks on “My Orders”	A page that shows wish list as SS9.2	
TF8-4	Throw mouse through the window	A page that shows wish list as SS9.2	



Pic: SS9.1



Pic: SS9.2

FT10. FWBS4.7 Offer “Chat” Button

This enables the user to send and receive messages. It also shows message history.

a. Requirement based testing

RTM

Test data	Expected output	Actual output

Click on “Chat” button as SS10.1	A page that shows a chat box as SS10.2	
Enter message “” on chat box as SS10.2	A page that prints “Invalid Message” as SS10.4	
Enter message “Hi!” on the chat box as SS10.2	A page that prints “Send” as SS10.3	
Enter message over 8000 characters as SS10.2	A page that prints “Invalid Message” as SS10.4	

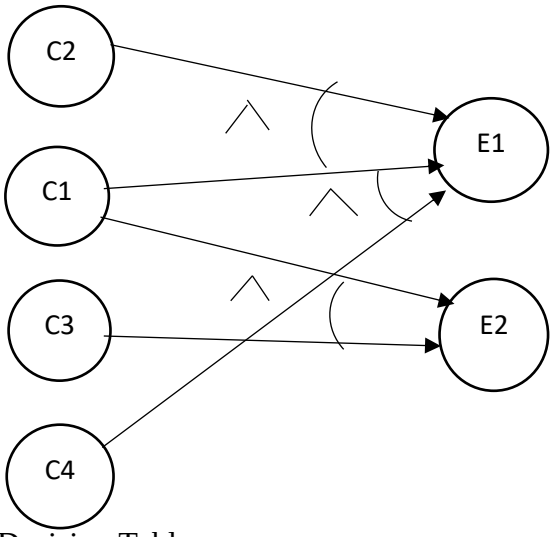
b. Negative testing

Input	Expected output	Actual output
Enter “” for title as SS10.1	A page that print “Invalid message ” as SS10.2	
Enter “한국어” as SS10.1	A page that is printing “Send” but might see garbled while viewing as SS10.3	

c. CEG & DT with BVA

Causes	Effect
C1: select enter message	E1: invalid message
C2: Empty message	E2: valid message
C3: 1-8000 characters for message	
C4: 8001- infinity characters for message	

Cause and Effect Graph



Decision Table

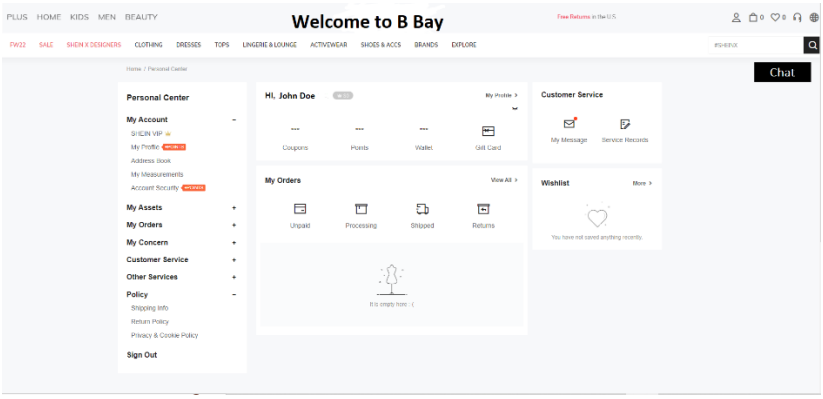
	P1	P2	P3	P4
Cause				
C1	1	0	0	0
C2	0	1	0	0
C3	0	0	1	0
C4	0	0	0	1
Effect				
E1	1	1	0	1
E2	0	0	1	0

Partitions	Test data	Expected output	Actual output
P1	Select chat box as SS10.2	A page that printing chat box as SS10.2	
P2	Empty chat box and try to send it as SS10.2	A page that printing “Invalid message” as SS10.4	
P3	Enter message between 1-8000 characters as SS10.1	A page that printing “Send” as SS10.3	

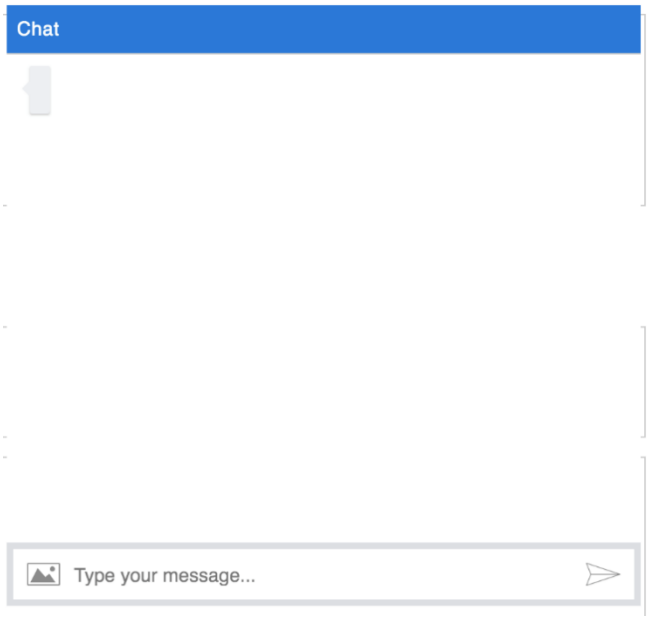
P4	Enter message over 8000 characters as SS10.1	A page that printing “Invalid message” as SS10.4	

Final test cases:

Test case No.	Test data	Expected output	Actual output
TF10-1	Click on “Chat” button as SS10.1	A page that shows a chat box as SS10.2	
TF10-2	Enter message “” on chat box as SS10.2	A page that prints “Invalid Message” as SS10.4	
TF10-3	Enter message “Hi!” on the chat box as SS10.2	A page that prints “Send” as SS10.3	
TF10-4	Enter message over 8000 characters as SS10.1	A page that prints “Invalid Message” as SS10.4	

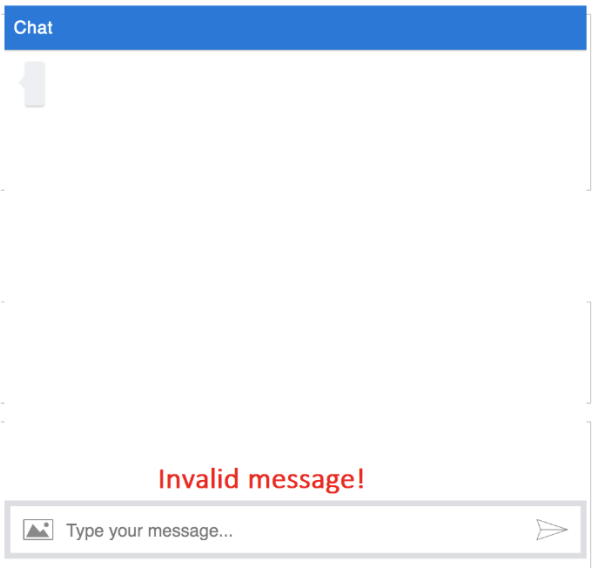


Pic: SS10.1



Pic: SS10.2

Pic: SS10.3



Pic: SS10.4

FT11. FWBS4.6Offer “History Purchase” Button

This will show the user's purchase history and return policy.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Clicks on “History purchase” button as SS11.1	A page that shows history of purchase as SS11.2	
Clicks on “Report error” button as SS11.1	A page that shows error reporting page as SS11.3	
Clicks on “Return” button	A page that shows return option as SS11.4	

b. Negative testing

Test data	Expected output	Actual output
Clicks on “My Orders”	A page that shows purchase history as SS11.2	
Throw mouse through the window	A page that shows return option as SS11.4	

c. State based testing

Current state	Test data	Expected next state	Expected output	Actual output
History purchase icon	Clicks on “History purchase” as SS11.1	History purchase list	A page that shows history of purchase as SS11.2	
My Orders icon	Clicks on “My Orders”	History purchase list	A page that shows cart list as SS11.2	
Report error button	Clicks on “Report error” button as SS11.1	Error report	A page that shows error reporting page as SS11.3	
Return button	Clicks on “Return” button	Return option	A page that shows return option as SS11.4	

Final test cases:

Test case No.	Test data	Expected output	Actual output

TF11-1	Clicks on "History purchase" button as SS11.1	A page that shows history of purchase as SS11.2	
TF11-2	Clicks on "Report error" button as SS11.1	A page that shows error reporting page as SS11.3	
TF11-3	Clicks on "Return" button	A page that shows return option as SS11.4	
TF11-4	Clicks on "My Orders"	A page that shows purchase history as SS11.2	
TF11-5	Throw mouse through the window	A page that shows return option as SS11.4	

FT12. FWBS5.1,5.3,5.4,5.6 Offer "History Purchase" Button

This is a merged cluster consisting of the user's purchase history, user's reputation and functionalities that will allow users to view items information and add to cart. And this merged cluster is also called History Purchase button.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Clicks on “Item information” As SS12.1	A page that shows item information as SS12.2	
Clicks on “Add to cart” button As SS12.3	A page that shows cart list as SS12.4	
Clicks on “Add to Wish list” button as SS12.5	A page that shows wish list as SS12.6	
Clicks on “Reputation” as SS12.7	A page that shows user’s reputation	

b. Negative testing

Test data	Expected output	Actual output
Clicks on “Register” as SS12.4	A page that shows cart list as SS12.4	
Put water on the keyboard	A page that shows wish list as SS12.6	

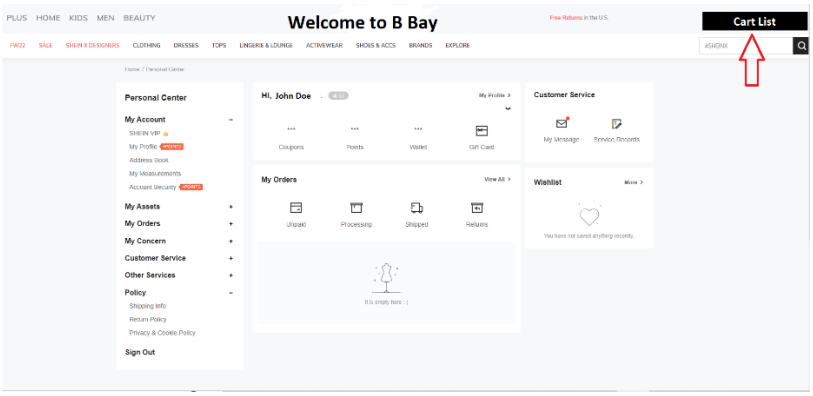
c. State based testing

Current state	Test data	Expected next state	Expected output	Actual output
Item information icon	Clicks on “Item information” As SS12.1	Item information	A page that shows item information as SS12.2	
Cart button	Clicks on “Add to cart” button As SS12.3	Cart list	A page that shows cart list as SS12.4	

Wish list	Clicks on “Add to Wish list” button as SS12.5	Wish list	A page that shows wish list as SS12.6	
Reputation	Clicks on “Reputation” as SS12.7	Reputation page	A page that shows user’s reputation	
Register icon	Clicks on “Register” as SS12.4	Cart list	A page that shows cart list as SS12.4	

Final test cases:

Test case No.	Test data	Expected output	Actual output
TF12-1	Clicks on “Item information” As SS12.1	A page that shows item information as SS12.2	
TF12-2	Clicks on “Add to cart” button As SS12.3	A page that shows cart list as SS12.4	
TF12-3	Clicks on “Add to Wish list” button as SS12.5	A page that shows wish list as SS12.6	
TF12-4	Clicks on “Reputation” as SS12.7	A page that shows user’s reputation as SS12.6	
TF12-5	Clicks on “Register” as SS12.4	A page that shows cart list as SS12.4	
TF12-6	Put water on the keyboard	A page that shows wish list as SS12.6	



Pic: SS12.3

Cart (5 items)

Pickup or delivery from store, as soon as Today
Reserve a time
Edit your order for free after checkout.

4 items

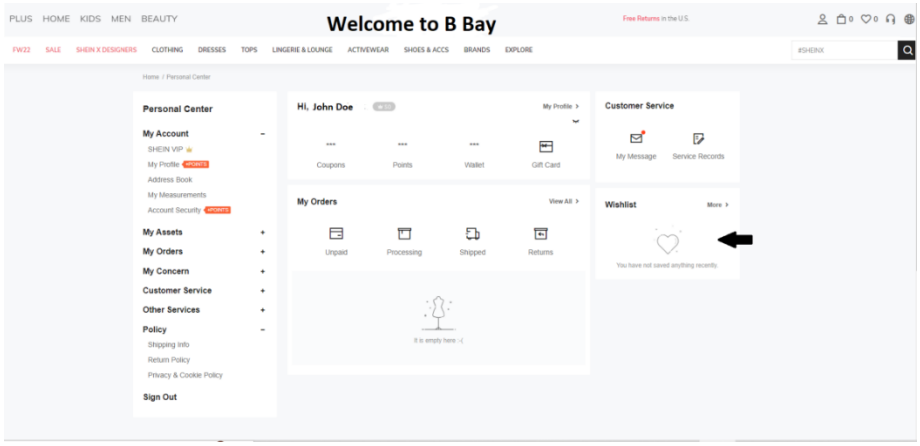
noosa Frozen Yogurt Gelato, Sea Salt Caramel 14 oz
27¢/fl oz
$3.78
Remove Save for later 1

Time And Tru Analog Watch in Pale Amethyst Expansion Bracelet - 42005WML
20¢/ea
$9.98
Remove Save for later 1

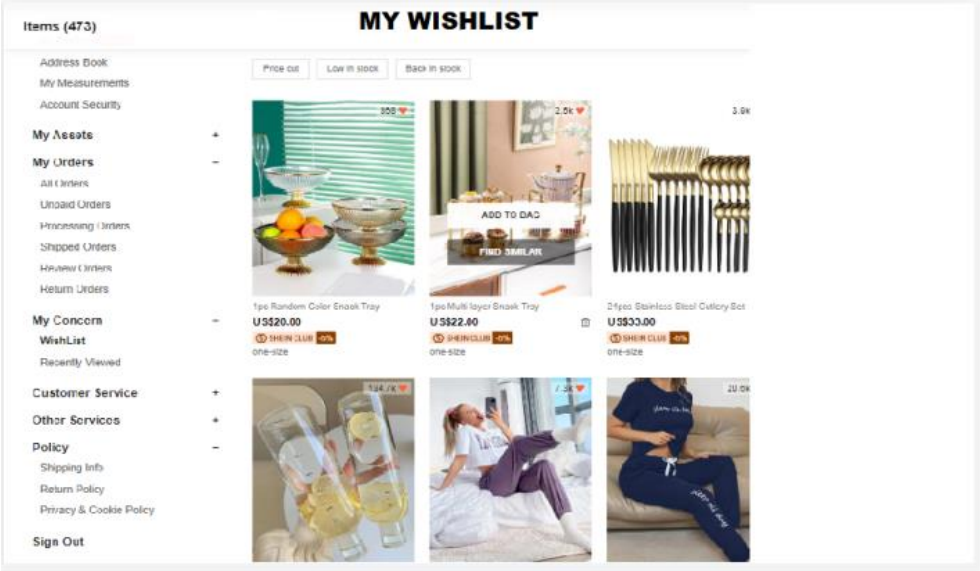
Marketside Pepperoni Pizza, Traditional Crust, Extra Large, 44.6 oz (Fresh)
16.8¢/oz
$7.50
Remove Save for later 1

Buy

Pic: SS12.4



Pic: SS12.5



Pic: SS12.6

TF13 FWBS5.2 Offer "Buy" or "Bid" Button

This functionality allows buyers to choose between the buy or bid option.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Click on Buy or Bid	Separate Buy or Bid button present	
User selects Bid button	Text box populates for the user to enter bid price	
User enters bid price	Accepted and submitted	
User enters char as bid price	Rejected and asked to re-enter price	
User enters negative bid price	Rejected and asked to re-enter price	

User selects Buy button	Text box populates for the user to enter payment information	
User enters right payment information	Payment done	
Wrong payment information	Error displayed	

b. State based Test

Input	State	Expected output	Actual output
Enters Bid/payment price as negative value	No change	Error is displayed. No state change?	
Enters bid/payment price as char	No change	Error is displayed. No state change?	
Enters Bid/payment price as positive value	Change	User proceeds to submit	

c. Negative testing

Input	Description	Expected output	Actual output

Enters Bid/payment price <= $0	Price that is below minimum	Error is displayed. No state change?	
Enters bid/payment price as char	Unacceptable format	Error is displayed. No state change?	
Enters Bid/payment price as > $50	Acceptable format within range	User proceeds to submit	

Test case table

Partitions	Test data	Expected output	Actual output
P1	Clicks on Buy/Bid	Separate Buy or Bid button present	
P2	User selects Bid button	Text box populates for the user to enter bid price	
P3	User enters bid price as positive float	Accepted and submitted	
P4	User enters char as bid price	Rejected and asked to re-enter price	
P5	User enters negative float bid price	Rejected and asked to re-enter price	
P6	User selects buy button	Text box populates for the user to enter payment information	
P7	User fills in right payment information	Payment done	

P6	User fills in wrong payment information	Error page?	

Final test cases

Test case No.	Test data	Expected output	Actual output
TF13-1	User clicks on Buy or Bid	See SS	
TF13-2	User selects Bid button	See SS	
TF13-3	User enters -$1 as bid price	See SS	
TF13-4	User enters $0 as bid price	See SS	
TF13-5	User enters $4000 as bid price	See SS	
TF13-6	User enters $50 as bid price	See SS	
TF13-7	Proceeds to submission	See SS	
TF13-6	Select Buy button	See SS	
TF13-7	choose valid payment method	See SS	
TF13-8	Enter card details	See SS	

FT14. FWBS5.5 Offer “Chat with Seller” Button

This will show user buy and auction options and show payment interface.

a. Requirement based testing

RTM

Test data	Expected output	Actual output
Click on “Chat with Seller” button as SS14.1	A page that shows a chat box as SS14.2	
Enter “New Message” button as SS14.2	A page that shows a chat box as SS14.2	
Enter message “” on chat box during chat with seller as SS14.2	A page that prints “Invalid Message” as SS14.2	
Enter message “Hi!” on the chat box during chat with seller as SS14.2	A page that prints “Send” as SS14.3	
Enter message over 8000 characters as SS14.2	A page that prints “Invalid Message” as SS14.4	

b. Negative testing

Input	Expected output	Actual output
Enter “” for title as SS14.1	A page that print “Invalid message ” as SS14.2	
Enter “한국어” as SS14.1	A page that is printing “Send” but might see garbled while viewing as SS14.3	

c. CEG & DT with BVA

Causes	Effect
C1: select enter message	E1: invalid message

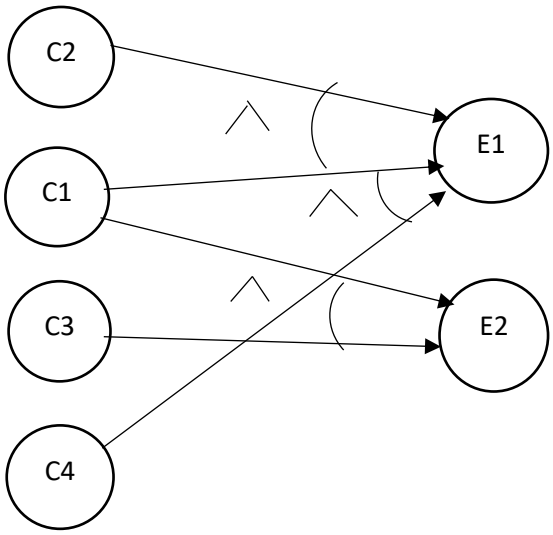
C2: Empty message

C3: 1-8000 characters for message

C4: 8001- infinity characters for message

E2: valid message

Cause and Effect Graph



Decision Table

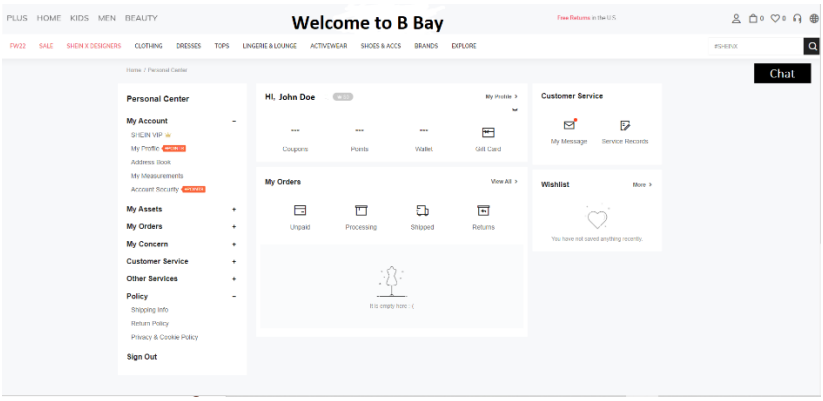
	P1	P2	P3	P4
Cause				
C1	1	0	0	0
C2	0	1	0	0
C3	0	0	1	0
C4	0	0	0	1
Effect				
E1	1	1	0	1
E2	0	0	1	0

Partitions	Test data	Expected output	Actual output
P1	Select chat box as SS14.1	A page that printing chat box as SS14.2	
P2	Empty chat box and try to send it as SS14.2	A page that printing “Invalid message” as SS14.4	
P3	Enter message between 1-8000 characters as SS14.1	A page that printing “Send” as SS14.3	
P4	Enter message over 8000 characters as SS14.1	A page that printing “Invalid message” as SS14.4	

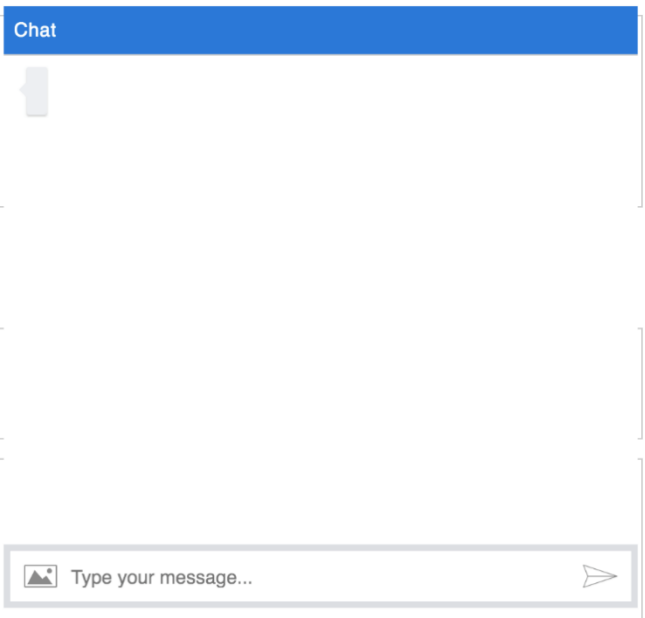
Final test cases:

Test case No.	Test data	Expected output	Actual output
TF10-1	Click on “Chat with Seller” button as SS14.1	A page that shows a chat box as SS14.2	
TF10-2	Enter message “” on chat box as SS14.2	A page that prints “Invalid Message” as SS14.4	

TF10-3	Enter message “Hi!” on the chat box as SS14.2	A page that prints “Send” as SS14.3	
TF10-4	Enter message over 8000 characters as SS14.1	A page that prints “Invalid Message” as SS14.4	

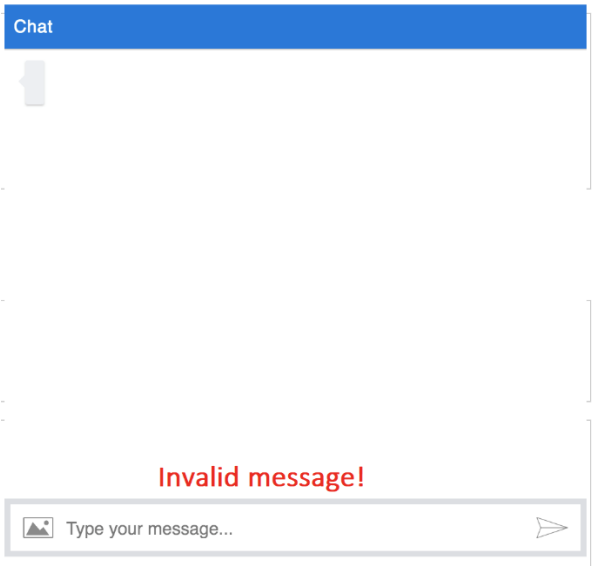


Pic: SS14.1



Pic: SS14.2

Pic: SS6.3



Pic: SS14.4

E.Non-Functional Requirement Test

E.1 Compatibility Test

Test environment			Test Input&Expected output	Pass/Fail
Browsers	OS	Devices		
Chrome	Win 10 22H2	Acre predator 300 2019	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	ios 16.1.1	iPhone xr	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	Android 13	Huawei honor 2020	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	Mac OS 13.0.1	Mac air 2020	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
IE	Win 10 22H2	Acre predator 300 2019	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	ios 16.1.1	iPhone xr	As FT3	

			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	Android 13	Huawei honor 2020	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	
	Mac OS 13.0.1	Mac air 2020	As FT3	
			As FT2	
			As FT4	
			As FT5	
			As FT7	
			As FT8	
			As FT11	

E.2 Regression Test with Policy

RT1. Policy Statement

RT1.1. To ensure the integrity of ingested content, Unlimited will conduct regression testing in the Setup environment before deploying any transform or profile to BAC scheduling system for publisher content that is already in production. When necessary, regression testing will also be conducted Unlimited to deploying system changes to BAC scheduling system.

RT 2. Implementation Examples

RT 2.1. A test suite for each publisher stream where content is being ingested has been created and is used whenever regression testing is required. Test suites include content that originally processed without problems as well as content that had validation and/or other issues that were resolved programmatically.

- The files for each batch in the test suite should be copied from their storage location to the appropriate publisher-named regression directory. From there they will be loaded into BAC scheduling system.

RT 2.2. Transform Changes:

- Regression testing is done by default whenever a transform change is deployed to the Setup environment.

- Where a transform is used for only one publisher, that publisher's test suite is used for regression testing.

- Where a transform is used for multiple publishers (typically publishers whose content comes from the same publishing platform), the test suites of all publishers sharing the transform are used for regression testing.

- The correct publisher profile(s) must also be added to the Provider Mapping under the correct publisher-specific regression testing entry in order to complete testing.

- Each batch must process successfully until reaching the "Inspect" activity, or, if known problems exist, must make it to the activity at which it previously failed.

- If the data team has recommended visual inspection of certain components, inspection must occur, otherwise testing is considered complete once "Inspect" is reached. The nature and degree of inspection needed will be specified by the data team.

- If any batch does is not tested successfully, and the failure is deemed to be due to a problem with the transform, the problems must be reported through tester and additional changes must be made to the transform.

- Deployment of the transform software to the Production environment will occur only when the entire test suite processes cleanly with both auto and manual QC checks completed. 2.3. Profile Changes:

- All profile changes are made in the Setup environment.

- Regression testing using the profile and appropriate transform must be successfully completed before the profile is deployed to the Ingest environment.

    - Each batch must process successfully until reaching the "Inspect" activity, or, if known problems exist, must make it to the activity at which it previously failed.

RT 2.4. System Changes:

- The decision as to whether or not to conduct regression testing in the Setup environment prior to the deployment of system changes to the Production environment is made on a case-by-case basis by the technology team.

- The technology team will also advise as to which or how many publishers require testing.

- Regression testing is considered successful if all batches make it to the "Inspect" activity or, at a minimum, make it past the activity that is affected by the system change.

E.3 Stress and Performance Test

Test Input&Expected output	Expected responds time	Pass/Fail
Do 10 FT1 at the same time	1 sec	
Do 15 FT2 at the same time	1 sec	
Do 20 FT3 at the same time	1 sec	
Do 20 FT4 at the same time	1 sec	
Do 20 FT5 at the same time	1 sec	
Do 20 FT7 at the same time	1 sec	
Do 20 FT8 at the same time	1 sec	
Do 30 FT10 at the same time	1 sec	
Do 40 FT11 at the same time	1 sec	
Do 20 FT12 at the same time	1 sec	
Do 20 FT13 at the same time	1 sec	
Do 20 FT14 at the same time	1 sec	

Test Input&Expected output	Expected responds time	Pass/Fail
Do 100 FT2 at the same time	1 min	
Do 100 FT12 at the same time	1 min	

E.4 Back-up and Recovery Test

Test Input	Expected outcome	P/F
Manager A shall copy and zip file “B-Bay.dbo” from “C:\Program Files\B-Bay”, and paste it to “C:\Program Files\B-Bay\back-up”, rename as the date	Find .zip file in “C:\Program Files\B-Bay\back-up”	
Create a account as TFT1.3 using ID “TestID” and PassWord “TestPassWord”. Open “C:\Program Files\B-Bay\back-up”, selete .zip file that the	Login failed.	

name is “2022.12”, unzip and cover the “B-Bay.dbo” from“C:\Program Files\B-Bay” Login as TFT1.2 using “TestID” and “TestPassWord”		

E.5 Security Test

Test	Input	Expected outcome	Pass/Fail
Try to edit database (change the schedule list) without manager ID.	Create and login as FT1 using “Linsong” and “Abc123”	Won’t be able to find way to edit schedule list.	
Try to login manager ID with Wrong Passwrod	Try to Login as FT1.2 with “Linsong” and “1234”	Login fail	
Vulnerability Scanning	Run a vulnerability scanner	0 vulnerability signature	
Security Scanning	Run a security scanner	0 weaknesses	
Penetration testing	Try to hack the webpage, for this case: try Worm	Unable to hack.	

Prepard By
Fatoumata, Ceesay
Habiba Karim, Rinky
Linsong, Li
Project Team

B-BAY ECOMMERCE SYSTEM

UNIT INTERATION TEST PLAN

Delivery Date
January 3rd, 2023

PREPARED FOR:

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November 29, 2022

Table of Contents

a.1.2.1.1.1 Enter password

Date: November 30th 2022

Name: Habiba Karim Rinky

Objective: Write a test case to check if the user can enter a password. The user is expected to enter a password.

Coverage Measurement:

1. Compound Condition: 100%
2. Loop: 80%
3. Basis Test:80%

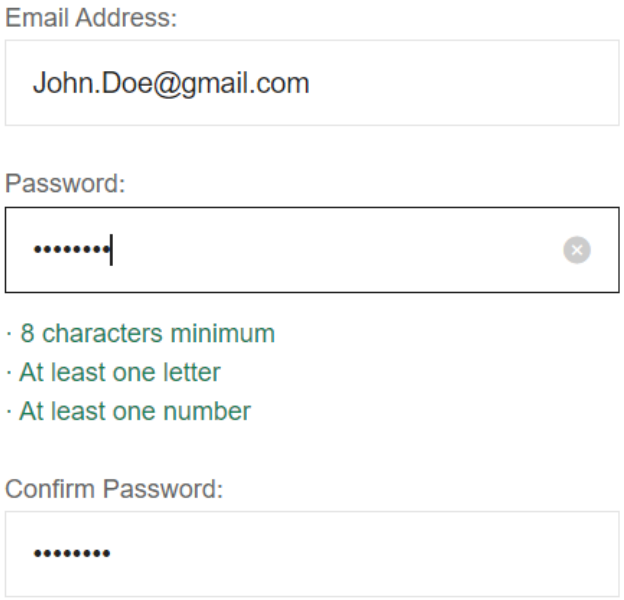
Individual Test Cases

1. **Compound Condition**
    a. Test case 1: Enter correct password

    Input data: password= “John123@”

    Expected output: See the picture below SS1

Actual output: Matches the expected output.



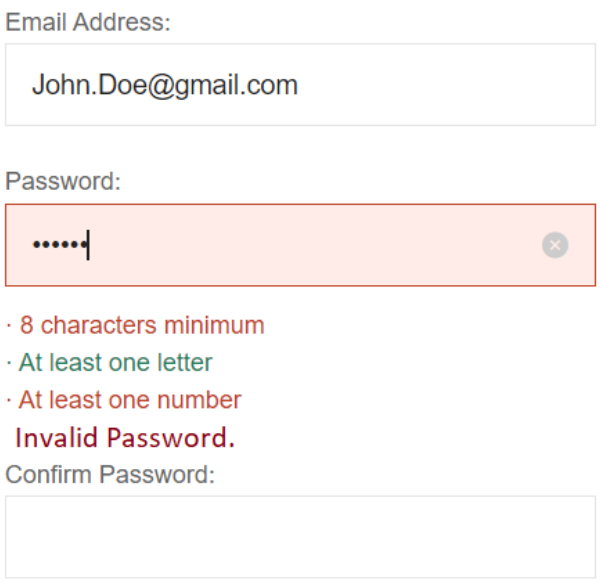
Pic: SS1

b. Test case 2: Enter invalid password

Input data: password = “123456ht”

Expected output: See the picture below SS2

Actual output: Matches the expected output.



Pic: SS2

2. **Branch Coverage**

For the if statement, has 2 possibilities

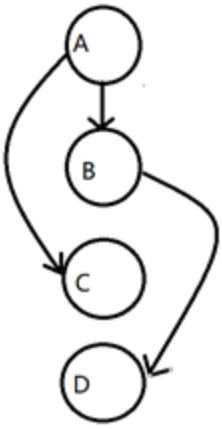
a. If password is valid

b. If password is not valid

3. **Basis Test**

4 nodes and 3 edges.

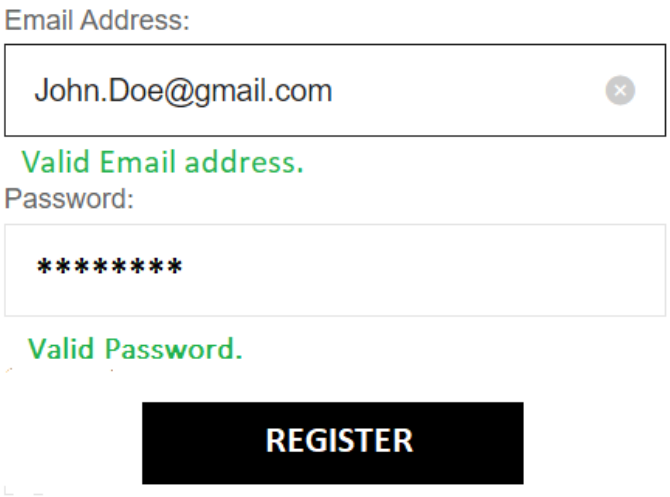
V(G) = E-N+2 = 1



Test Path: A->C

Input: Password =”John123@”

Expected output: see the pictures below SS3



Pic: SS3

4.Final test case:

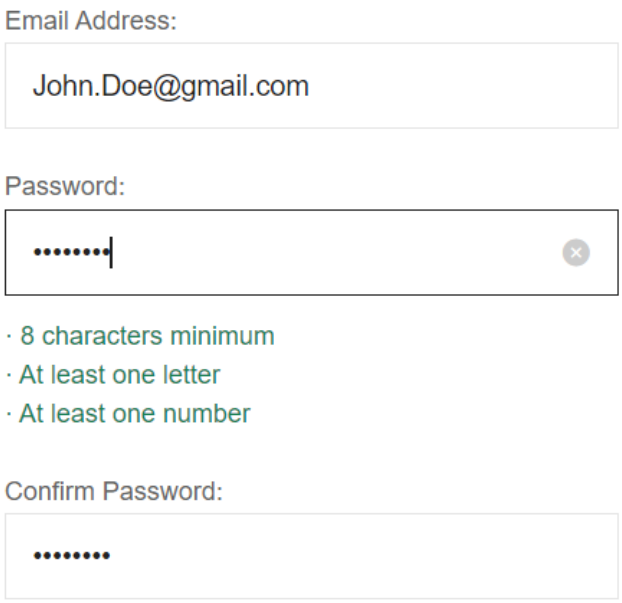
Test Case 1

Enter correct password

Input data: password= “John123@”

Expected output: See the picture below SS4

Actual output: Matches the expected output.



Pic: SS4

Test Case 2

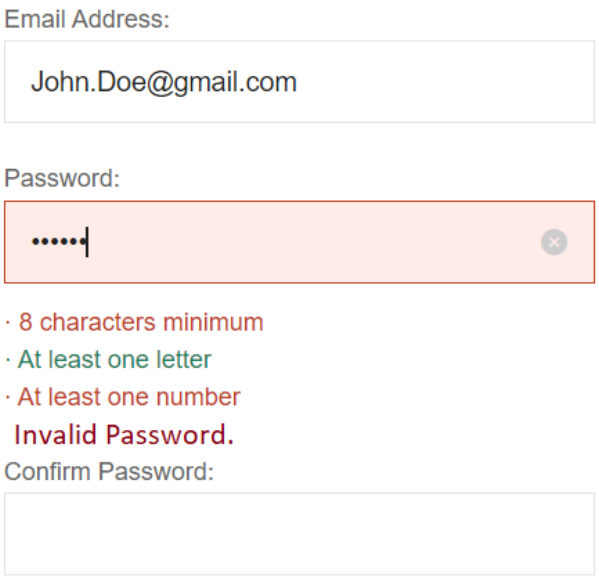
Enter invalid password

Input data: password = “123456ht”

Expected output: See the picture below SS5

Actual output: Matches the expected output.

Pic: SS5



b. 1.2.1.1.2 Forgot password button

Date: November 30th 2022

Name: Fatoumata Ceesay

Objective: Write a test case to check if the user can generate a new password when they forget their password.

Coverage Measurement:

1. Compound Condition: 100%
2. Principal Path: 80%
3. Basis Test:80%

Individual Test Cases

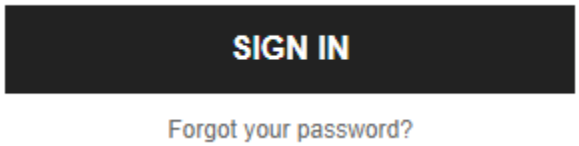
1. **Compound Condition**

a. Test case 1: Forgot password button

Input data = “Forget Password” Button

Expected output: See the picture below SS6

Actual output: Matches the expected output.



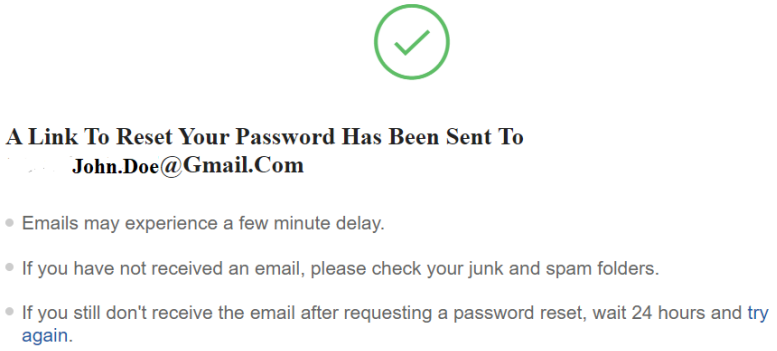
Pic: SS6

b. Test case 2: Send email to email address

Input data: Click to “Continue” button on forgotten password

Expected output: See the picture below SS7

Actual output: Matches the expected output.



Pic: SS7

2. Branch Coverage

For the if statement, has 2 possibilities

a. If clicked on “Forget Password” button

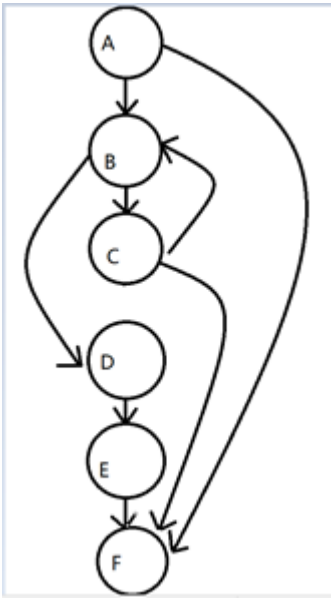
b. If email is sent to email address

3. Basis Test

8 nodes and 8 edges.

V(G) = E-N+2

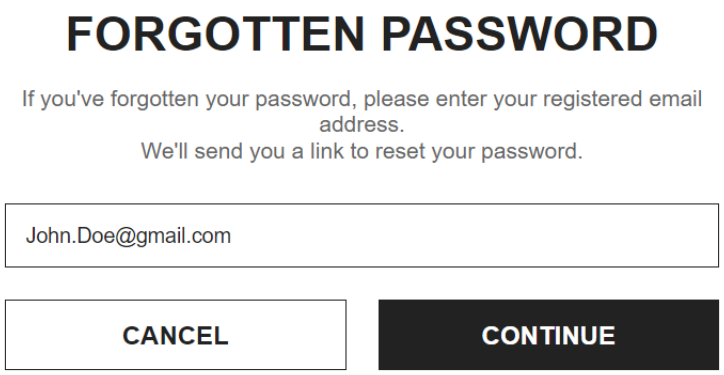
V(G) =8-8+2=2



`Test Path : A -> B -> D -> E -> F`

Test Data: Click to “Forget Password” Button

Expected output: See below SS8



Pic: SS8

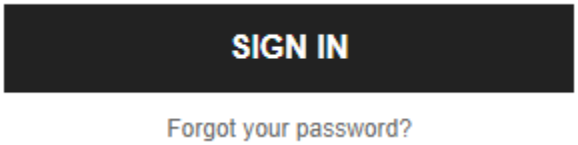
4.Final test case:

Test case 1: Forgot password button

Input data = “Forget Password” Button

Expected output: See the picture below SS6

Actual output: Matches the expected output.



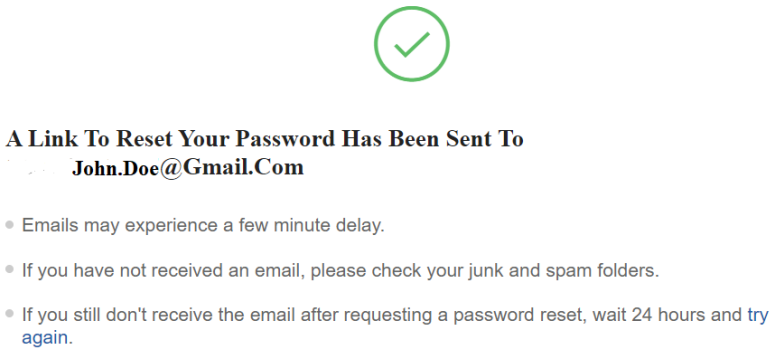
Pic: SS6

Test case 2: Send email to email address

Input data: Click to “Continue” button on forgotten password

Expected output: See the picture below SS7

Actual output: Matches the expected output.



Pic: SS7

c. Integration Test Plan

FWBS number & name 1.2.1.1.1 Enter Password & 1.2.1.1.2 Forgot password button

Date : November 30th 2022

Name: Habiba Karim Rinky

Purpose To test the entering password interface of the user

Coverage Measurement (%)

a. Compound Conditions (90%)

b. Branch Coverage (80%)

c. Basis Test (100%)

Individual Test Cases

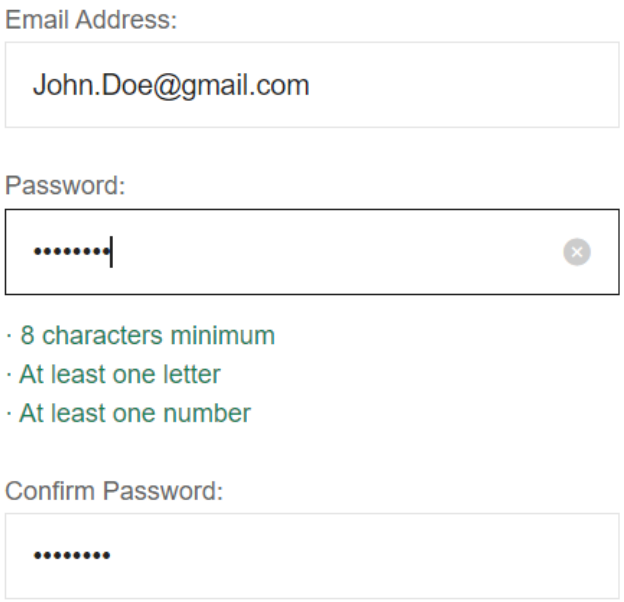
1. Compound Condition

    a. Test case 1: Enter correct password

    Input data: password= “John123@”

    Expected output: See the picture below SS1

    Actual output: Matches the expected output.



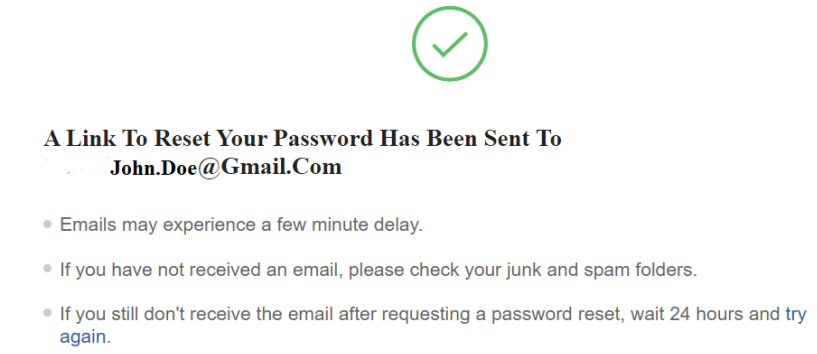
Pic: SS1

    b. Test case 2: Send email to email address

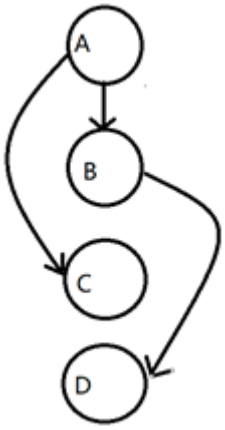
    Input data: Click to “Continue” button on forgotten password

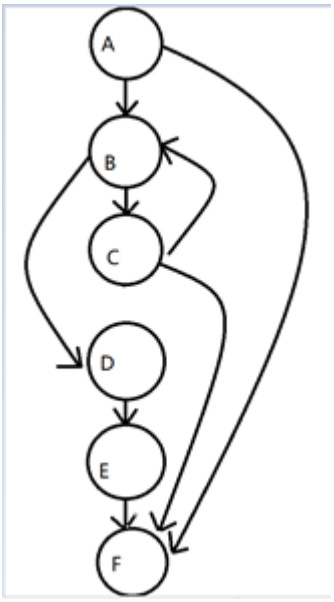
    Expected output: See the picture below SS7

    Actual output: Matches the expected output.


A Link To Reset Your Password Has Been Sent To
John.Doe@Gmail.Com
Emails may experience a few minute delay.
If you have not received an email, please check your junk and spam folders.
If you still don't receive the email after requesting a password reset, wait 24 hours and try again.

3. Basis Test


A
B
C
D


A
B
C
D
E
F

10 nodes 11 edges

V(G) = E – N + 2 = 3

Test path: A->C

A -> B -> D -> E -> F

A -> B -> C -> F

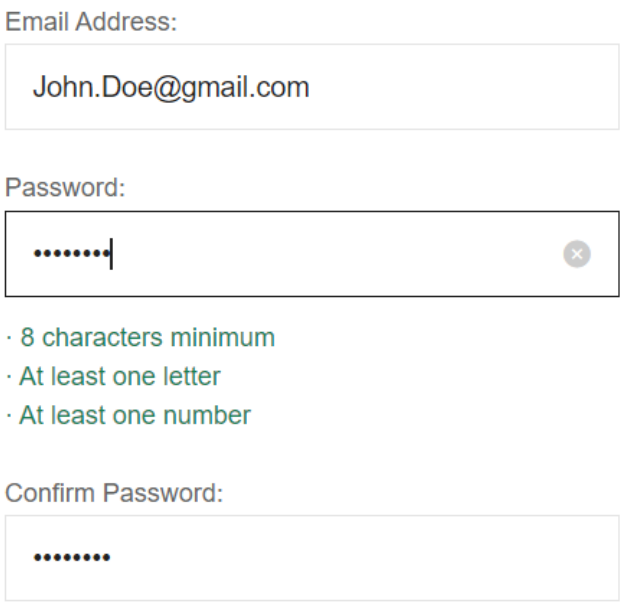
4.Final test case:

a. Test case 1: Enter correct password

Input data: password= “John123@”

Expected output: See the picture below SS1

Actual output: Matches the expected output.



Pic: SS1

b. Test case 2: Send email to email address

Input data: Click to “Continue” button on forgotten password

Expected output: See the picture below SS7

Actual output: Matches the expected output.