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B-BAY ECOMMERCE SYSTEM

**System Test Plan**

Prepard By

Fatoumata, Ceesay

Habiba Karim, Rinky

Linsong, Li

Project Team

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**PREPARED FOR:**

**Sung, Shin**

Owner of

Sung’s & Co Limited

550 Main Avenue

Brookings SD, 57007

605-456-7890

Sung.Shin@Outlook.com

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**A.Introduction**

A.1Purpose 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.

Diagram

Description automatically generatedA.2Scope of Product

A.3Acronyms

STP: System Test Plan

CPU: Central processing unit

OS: Operating system

## A.4List of Abbreviations

API Application programming interface

B Bay Brookings Bay

Bid Auction

DB Database

ID Identification number

SS Screenshot

## A.5Definitions

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

A.6References

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.7Overview 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 | Check if wish list display correctly |
| 4.3 |
| FT9 | 5.3 | Check if Cart list is working |
| 4.4 |
| FT10 | 5.5 | Try if chat allow communication to right target |
| 4.7 |
| 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 |

B.2Requirements not tested

**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.

图示

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## C.2Software 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.3Hardware & 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 | Check if wish list display correctly | Linsong | 5/16/2023 |  |
| 4.3 |
| FT9 | 5.3 | Check if Cart list is working | Habiba | 5/17/2023 |  |
| 4.4 |
| FT10 | 5.5 | Try if chat allow communication to right target | Habiba | 5/20/2023 |  |
| 4.7 |
| 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 email address (not in the form firstname.lastname) and password | See SS |  |
| Enter email address in the form (firstname.lastname) | See SS3 |  |
| Enter password < 6 chars | See SS4 |  |
| Enter password of length greater than or equal to 6 chars with at least one special char and numbers | See SS6 |  |
| Click on the register button | 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 “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

C1

E1

C2

E2



C3

C4

E3

C5

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 |
| TF1-1 | Enter “” and “” for email address and Password. | See SS1 |  |
| TF1-2 | Enter [Doe.John@gmail.com](mailto:Doe.John@gmail.com) | See SS2 |  |
| TF1-3 | Enter [John.Doe@gmail.com](mailto: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 |  |

Graphical user interface, text

Description automatically generated

SS1

Graphical user interface, text, application

Description automatically generated

SS2

图形用户界面, 文本, 应用程序

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SS3

Graphical user interface, text, application

Description automatically generated

SS4

Graphical user interface, text, application

Description automatically generated

SS5

Graphical user interface, application

Description automatically generated

SS6

Graphical user interface, text, application

Description automatically generated

SS7

图形用户界面, 文本, 应用程序, 电子邮件

描述已自动生成

SS6

Graphical user interface, application

Description automatically generated

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 email address in the form firstname.lastname and password for first time user | “Username not found. New user? Click on sign up to register” will be displayed. |  |
| Enter email address in the form (firstname.lastname) | Valid email will be printed under the email text box as shown in SS8 |  |
| Enter password less than 6 characters | See SS9 |  |
| Enter password of length greater than or equal to 6 chars with at least one special char and numbers | 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: valid

C3: Empty email and password E3: invalid password

C4: Valid email and password

C5: Invalid email and/or password

C1

E1

C2

E2



C3

C4

C5 E3

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 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 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](mailto:Doe.John@gmail.com) | See SS9 |  |
| TF2-3 | Enter [John.Doe@gmail.com](mailto: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 |  |

图形用户界面, 文本, 应用程序

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SS8

Graphical user interface, text, application

Description automatically generated

SS9

Graphical user interface, text, application

Description automatically generated

SS11

Graphical user interface, text, application

Description automatically generated

SS12

Graphical user interface, application

Description automatically generated

SS15

Graphical user interface, text, application

Description automatically generated

SS14

Graphical user interface, text, application

Description automatically generated

SS17

Graphical user interface, application

Description automatically generated

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 equal to 6 chars with at least one special char and numbers | See SS21 |  |
| 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

C1



E1



C2

E2



C3

C4



C5 E3

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](mailto:Doe.John@gmail.com) | See SS17 |  |
| TF3-3 | Enter [John.Doe@gmail.com](mailto: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 |  |

Graphical user interface, text

Description automatically generated

SS14

Graphical user interface, text, application

Description automatically generated

SS17

Graphical user interface, text, application

Description automatically generated

SS21

Graphical user interface, text, application

Description automatically generated

SS22

Graphical user interface, application

Description automatically generated

SS23

Graphical user interface, text, application

Description automatically generated

SS24

图形用户界面, 文本, 应用程序, 电子邮件

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SS25

Graphical user interface, application

Description automatically generated

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

C1 E1



C4

E2

C2

E3

C3

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 |  |

Diagram

Description automatically generated

SS4.1

Diagram

Description automatically generated

SS4.2

Diagram

Description automatically generated

SS4.3

Diagram

Description automatically generated

SS4.4

Diagram

Description automatically generated

SS4.5

Diagram

Description automatically generated

SS4.6

Diagram

Description automatically generated

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 |  |

Graphical user interface, website

Description automatically generated

SS5.1

A picture containing graphical user interface

Description automatically generated

SS5.2

Graphical user interface

Description automatically generated with medium confidence

SS5.3

Text, letter

Description automatically generated

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 |  |

Graphical user interface, application, Teams

Description automatically generated

Pic: SS6.1

A screenshot of a video game

Description automatically generated

Pic: SS6.2

A screenshot of a video game

Description automatically generated

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 |  |

Graphical user interface, text, application

Description automatically generated

Pic: SS7.1

Graphical user interface

Description automatically generated

Pic: SS7.2

Graphical user interface, text, application

Description automatically generated

Pic: SS7.3

Graphical user interface, text, application, email

Description automatically generated

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 |  |

Graphical user interface, application

Description automatically generated

Pic: SS8.1

Graphical user interface, application

Description automatically generated

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 |  |

Graphical user interface, application

Description automatically generated

Pic: SS9.1

Graphical user interface, application, Teams

Description automatically generated

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 |  |

Graphical user interface, application

Description automatically generated

Pic: SS10.1

Graphical user interface, text, application

Description automatically generated

Pic: SS10.2

Icon

Description automatically generated

Pic: SS10.3

Graphical user interface, text, application

Description automatically generated

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 |  |

Graphical user interface, application

Description automatically generated

Pic: SS12.3

Graphical user interface, application, Teams

Description automatically generated

Pic: SS12.4

Graphical user interface, application

Description automatically generated

Pic: SS12.5

Graphical user interface, application

Description automatically generated

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 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 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 |  |

Graphical user interface, application

Description automatically generated

Pic: SS14.1

Graphical user interface, text, application

Description automatically generated

Pic: SS14.2

Icon

Description automatically generated

Pic: SS6.3

Graphical user interface, text, application

Description automatically generated

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.

o 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 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” | Login failed. |  |

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. |  |