Software Quality - ENGR-3980

*Swift Ticket*

*Front End Failure Log*

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# Failure Log

For every test case which was conducted without failure, no log entry exists.

## Document Format

The failure log lists the following fields:

|  |  |
| --- | --- |
| **Failure Timestamp/**  **Artifact Log Number** | This field contains the date and time upon which a failure to pass a test occurred, and a reference to Appendix A, where a screen capture shows the instance upon which the test failed, and any diagnostic output that was included.  *Multiple entries in this field correspond to multiple logged failures of the same test, and a corrective action and/or follow-up is included for each logged failure.* |
| **Test Case** | This field contains a reference to the test name for the failure. This must be cross-referenced with the test master list for further details on test specifics if necessary. |
| **Test Brief** | This field contains a brief description of the test case, and is the title by which tests are referred to in diagnostic output. |
| **Error Details** | This field contains findings recovered from investigating the failure of a test to pass, and details the error in brief. |
| **Corrective Action Taken** | This field details the corrective action attempted to make a test case pass. |
| **Follow-Up** | This field details any additional follow-up action that was taken beyond the initial remediation, if it was required. |
| **Pass Timestamp/**  **Artifact Log Number** | This field contains the date and time upon which a test passed after having failed initially, and a reference to Appendix A, where a screen capture shows the instance upon which the test passed, and subsequent re-runs of the test passed without error. |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Failure Timestamp | Art. Log No. | Test Case | Test Brief | Error Details | Corrective Action Taken | Follow-Up | Pass Timestamp | Art. Log No. |
| 17/03/2013/17:38 | 1 | Sell\_20 | Save Sell Transaction to Daily Transaction File | Test case was missing logout transaction; daily transaction file is never created. | Test case updated. | Corrective action was sufficient, all subsequent tests passed. | 17/03/2013/18:54 | 7 |
| 17/03/2013/17:38  17/03/2013/17:52 | 1  2 | Sell\_21 | Sale Transaction Session Constraint | Test case was missing daily transaction file exemplar.  Test case was missing logout transaction; daily transaction file is never created. | Test case updated. | Corrective action was sufficient, all subsequent tests passed. | 17/03/2013/18:54 | 7 |
| 17/03/2013/17:52 | 2 | Sell\_12 | Ticket Price Input Format (Non-Decimal Input, numerical) | Bug found: non-decimal numerical input values were not being sanitized prior to input. | Validation of input strings updated for sell transaction. | Corrective action was sufficient, all subsequent tests passed. | 17/03/2013/18:54 | 7 |
| 18/03/2013/15:59 | 3 | Buy\_9 | Ticket Purchase Number (more than 4, buy-standard) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_10 | Ticket Purchase Number (more than 4, full-standard) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_11 | Ticket Purchase Number (less than 4, buy-standard) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_12 | Ticket Purchase Number (less than 4, full-standard) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_13 | Ticket Purchase Number (more than 4, admin) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_14 | Ticket Purchase from Seller Prompt | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_15 | Ticket Purchase from Seller (Invalid Seller, does not exist) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59 | 3 | Buy\_16 | Ticket Purchase from Seller (Invalid Seller, current active user) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22 | 3  4 | Buy\_17 | Ticket Purchase from Seller (Valid Seller) | Failed due to unmet dependencies. | Not applicable. | Follow-up test conducted. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22 | 3  4 | Buy\_18 | Sale Information Display | Failed due to unmet dependencies.  Test case numbering offset error, resulting in false positive for unmet dependencies. | Not applicable.  Test case numbering corrected. | Follow-up test conducted.  Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22 | 3  4 | Buy\_19 | Purchase Prompt | Formatting of output strings in test did not match correct expected output.  Test case numbering offset error, resulting in false positive for unmet dependencies. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars.  Test case numbering corrected. | Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22 | 3  4 | Buy\_20 | Purchase Prompt Input (Invalid input, garbage) | Failed due to unmet dependencies.  Test case numbering offset error, resulting in false positive for unmet dependencies. | Not applicable.  Test case numbering corrected. | Follow-up test conducted.  Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22  18/03/2013/23:40 | 3  4  5 | Buy\_21 | Purchase Prompt Input (Valid Input, “no”) | Formatting of output strings in test did not match correct expected output.  Test case numbering offset error, resulting in false positive for unmet dependencies.  Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars.  Test case numbering corrected. | Additional correction of expected output strings resulted in pass.  Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22  18/03/2013/23:40 | 3  4  5 | Buy\_22 | Purchase Prompt Input (Valid Input, “yes”) | Failed due to unmet dependencies.  Formatting of output strings in test did not match correct expected output.  Test case numbering offset error, resulting in false positive for unmet dependencies. | Test dependencies corrected.  Formatting of output strings in test expected was corrected using standard strings from recorded exemplars.  Test case numbering corrected. | Follow-up test conducted. Passed after dependencies met. | 19/03/2013/12:45 | 8 |
| 18/03/2013/15:59  18/03/2013/21:22  18/03/2013/23:40 | 3  4  5 | Buy\_23 | Ticket Sale Daily Transaction File | Formatting of output strings in test did not match correct expected output.  Test case numbering offset error, resulting in false positive for unmet dependencies.  Failed due to unmet dependencies. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars.  Test case numbering corrected.  Test dependencies corrected. | Follow-up test conducted.  Corrective action was sufficient, all subsequent tests passed. | 19/03/2013/12:45 | 8 |
| 18/03/2013/16:03 | 6 | Addcredit\_7 | Privileged Mode Prompt (Username) | Formatting of output strings in test did not match correct expected output. | Formatting of output strings in test expected was corrected using standard strings from recorded exemplars. | Corrective action was sufficient, all subsequent tests passed. | 18/03/2013/16:13 | 9 |
| 18/03/2013/16:03 | 6 | Addcredit\_8 | Privileged Username Input Validation (invalid input, does not exist) | Failed due to unmet dependencies. | Test dependencies corrected. | Corrective action was sufficient, all subsequent tests passed. | 18/03/2013/16:13 | 9 |
| 18/03/2013/16:03 | 6 | Addcredit\_9 | Privileged Username Input Validation (Valid Input) | Failed due to unmet dependencies. | Test dependencies corrected. | Corrective action was sufficient, all subsequent tests passed. | 18/03/2013/16:13 | 9 |

## Discussion

Throughout testing, only one bug in the front end was found (highlighted in red). The remaining errors were due to deficiencies in the tests conducted, whereby errors were made in the exemplar output. Using a file to store all the ‘standard’ strings that were used throughout the program was useful to correct these errors, however, it was found that updating this file across versions was critical to ensuring that the tests functioned correctly.

# Appendix A – Test Result Artifact Log

|  |  |
| --- | --- |
| **Artifact Log No.** | **Screen Capture** |
| 1 | C:\Users\100440203\Desktop\stuff\good\1.png |
| 2 | C:\Users\100440203\Desktop\stuff\good\2.png |
| 3 | C:\Users\100440203\Desktop\stuff\good\3.png |
| 4 | C:\Users\100440203\Desktop\stuff\good\4.png |
| 5 | C:\Users\100440203\Desktop\stuff\good\5.png |
| 6 | C:\Users\100440203\Desktop\stuff\good\6.png |
| 7 | C:\Users\100440203\Desktop\stuff\good\7.png |
| 8 | C:\Users\100440203\Desktop\stuff\good\8.png |
| 9 | C:\Users\100440203\Desktop\stuff\good\9.png |

# Appendix B – Final Test Output

|  |
| --- |
| Executing Login Test Suite  ========================================  Login Transaction PASSED  Login Account File Prompt PASSED  Login User Authentication PASSED  Login User Authentication Error PASSED  Read available tickets file PASSED  Corrupted available tickets file PASSED  Login Sequence of Events PASSED  Subsequent Logins PASSED  Unprivileged Login (sell-standard) PASSED  Unprivileged Login (buy-standard) PASSED  Unprivileged Login (full-standard) PASSED  Privileged create PASSED  Privileged delete PASSED  Privileged sell PASSED  Privileged buy PASSED  Privileged refund PASSED  ---------------------------------------- --------  Login Test Suite PASSED  Executing Quit Test Suite  ========================================  Quit Transaction Attempt PASSED  Quit Transaction Rejection (Logged in) PASSED  ---------------------------------------- --------  Quit Test Suite PASSED  Executing Logout Test Suite  ========================================  Logout Attempt (sell-standard) PASSED  Logout Attempt (buy-standard) PASSED  Logout Attempt (full-standard) PASSED  Logout Attempt (admin) PASSED  Write Daily Transaction File (sell-standard) PASSED  Write Daily Transaction File (buy-standard) PASSED  Write Daily Transaction File (full-standard) PASSED  Write Daily Transaction File (admin) PASSED  ---------------------------------------- --------  Logout Test Suite PASSED  Executing Create Test Suite  ========================================  Creating a User (Prompt) PASSED  Creating a User (Enter Username) PASSED  Creating a User (Invalid Username, length) PASSED  Creating a User (Invalid Username, invalid name) PASSED  Creating a User (Invalid Username, uniqueness) PASSED  Creating a User (Enter User Type Prompt) PASSED  Creating a User (User Type: buy-standard) PASSED  Creating a User (User Type: sell-standard) PASSED  Creating a User (User Type: full-standard) PASSED  Creating a User (User Type: admin) PASSED  ---------------------------------------- --------  Create Test Suite PASSED  Executing Delete Test Suite  ========================================  Delete User Prompt PASSED  Delete User Input PASSED  Delete User Input (Invalid User) PASSED  Delete User Input (Current User) PASSED  Delete User Daily Transaction File PASSED  ---------------------------------------- --------  Delete Test Suite PASSED  Executing Sell Test Suite  ========================================  Sell Transaction Privileges (buy-standard) PASSED  Sell Transaction Privileges (sell-standard) PASSED  Sell Transaction Privileges (full-standard) PASSED  Sell Transaction Privileges (admin) PASSED  Sell Title Length (Short Title) PASSED  Sell Title Length (Long Title) PASSED  Sell Title Length (Invalid Length) PASSED  Sell Title (Invalid Title) PASSED  Ticket Price Input Prompt PASSED  Ticket Price Input Format (Non-Decimal Input, garbage) PASSED  Ticket Price Input Format (Non-Decimal Input, numerical) PASSED  Ticket Price Input Format (Edge Case, negative value) PASSED  Ticket Price Input Format (Edge case, value too large) PASSED  Ticket Price Input Format (Valid Input) PASSED  Ticket Volume Input Prompt PASSED  Ticket Volume Input (Edge Case, non integer input, garbage) PASSED  Ticket Volume Input (Edge Case, negative integer input) PASSED  Ticket Volume Input (Edge Case, input too high) PASSED  Ticket Volume Input (valid input) PASSED  Save Sell Transaction to Daily Transaction File PASSED  Sale Transaction Session Constraint PASSED  Sale Transaction Multiple Sessions PASSED  ---------------------------------------- --------  Sell Test Suite PASSED  Executing Buy Test Suite  ========================================  Buy Transaction Privileges (buy-standard) PASSED  Buy Transaction Privileges (sell-standard) PASSED  Buy Transaction Privileges (full-standard) PASSED  Buy Transaction Privileges (admin) PASSED  Buy Event Title Exists (Invalid Title, does not exist) PASSED  Buy Event Title Exists (Invalid Title, contains invalid string) PASSED  Buy Event Title Exists (Valid Title) PASSED  Buy Amount Prompt PASSED  Ticket Purchase Number (more than 4, buy-standard) PASSED  Ticket Purchase Number (more than 4, full-standard) PASSED  Ticket Purchase Number (less than 4, buy-standard) PASSED  Ticket Purchase Number (less than 4, full-standard) PASSED  Ticket Purchase Number (more than 4, admin) PASSED  Ticket Purchase from Seller Prompt PASSED  Ticket Purchase from Seller (Invalid Seller, does not exist) PASSED  Ticket Purchase from Seller (Invalid Seller, current active user) PASSED  Ticket Purchase from Seller (Valid Seller) PASSED  Ticket Purchase from Seller (Seller Not Selling Ticket) PASSED  Sale Information Display PASSED  Purchase Prompt PASSED  Purchase Prompt Input (Invalid input, garbage) PASSED  Purchase Prompt Input (Valid Input, “no”) PASSED  Purchase Prompt Input (Valid Input, “yes”) PASSED  Ticket Sale Daily Transaction File PASSED  ---------------------------------------- --------  Buy Test Suite PASSED  Executing Refund Test Suite  ========================================  Refund Buyer Prompt PASSED  Refund Buyer Input (Invalid Input, buyer does not exist) PASSED  Refund Buyer Input (Valid Input, buyer exists) PASSED  Refund Seller Prompt PASSED  Refund Seller Input (Invalid Input, seller does not exist) PASSED  Refund Seller Input (Valid Input, seller exists) PASSED  Refund Amount Prompt PASSED  Refund Amount Input (Invalid input, garbage) PASSED  Refund Amount Input (Invalid input, numerical) PASSED  Refund Amount Input (Invalid input, negative value) PASSED  Refund Amount Input (Valid Input) PASSED  Refund Transfer Credit Operation (Value Overflow) PASSED  Refund Transfer Operation Daily Transaction File PASSED  ---------------------------------------- --------  Refund Test Suite PASSED  Executing Add Credit Test Suite  ========================================  Privileged Mode Prompt (Amount) PASSED  Privileged Amount Input Validation (invalid input, garbage) PASSED  Privileged Amount Input Validation (Invalid input, numerical) PASSED  Privileged Amount Input Validation (invalid input, negative value) PASSED  Privileged Amount Input Validation (invalid input, value too high) PASSED  Privileged Amount Input Validation (Valid Input) PASSED  Privileged Mode Prompt (Username) PASSED  Privileged Username Input Validation (invalid input, does not exist) PASSED  Privileged Username Input Validation (Valid Input) PASSED  Non-Privileged Mode Prompt PASSED  Non-Privileged Amount Input Validation (invalid input, garbage) PASSED  Non-Privileged Amount Input Validation  (Invalid input, numerical) PASSED  Non-Privileged Amount Input Validation (invalid input, negative value) PASSED  Non-Privileged Amount Input Validation (invalid input, value too high) PASSED  Non-Privileged Amount Input Validation (Valid Input) PASSED  ---------------------------------------- --------  Add Credit Test Suite PASSED |