**Testing Document and Specification**

Test Specification

Commerce Bank Application

CS 451

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| Test Case ID: | 1.1 |
| Title: | Authenticating Valid Users |
| Feature/Subfeature: | System User Validation |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to log into the application. |
| Initial Conditions: | User has an account with a valid username and password. |
| Test Data: | Test data will include valid usernames and passwords |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in using test data |
| Expected Results: | AAgvgghhaaa User is able to log into application |

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| Test Case ID: | 1.2 |
| Title: | Not Authenticating Invalid Users |
| Feature/Subfeature: | System User Validation |
| Purpose: | To ensure persons without an account at Commerce Bank are not able to log into the application. |
| Initial Conditions: | User does not have an account with a valid username and password. |
| Test Data: | Test data will include invalid usernames and passwords |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User attempts to log in using test data |
| Expected Results: | Dialog pops up informing user they have entered an invalid username and password |

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| Test Case ID: | 2.1 |
| Title: | Viewing Transaction |
| Feature/Subfeature: | System User Validation/Viewing Transactions |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to view their transactions |
| Initial Conditions: | User has an account with valid username and password and is on the transaction page, and the user has transactions. |
| Test Data: | Test data will include valid usernames and passwords |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Transactions” tab |
| Expected Results: | Transactions are displayed in a table |

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| Test Case ID: | 2.2 |
| Title: | Adding Transaction |
| Feature/Subfeature: | System User Validation/Adding Transactions |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to add transactions to their table. |
| Initial Conditions: | Initial conditions will include user has an account with Commerce Bank |
| Test Data: | Test data will include valid usernames and passwords  Transaction Criteria:   * Account Number = 2 * Date: 2020-05-17 * Transaction Amount = 10.48 * Description = Rye * Category = Food * Location = Missouri * Transaction Type = Withdrawal |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Transactions” tab 4. User clicks “Add Transaction” button 5. User enters test criteria for transaction 6. User clicks “Add New Transaction” |
| Expected Results: | Add Transaction dialog box will close and new transaction will be added to transaction table. |

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| Test Case ID: | 2.3 |
| Title: | Exporting Transactions |
| Feature/Subfeature: | Exporting |
| Purpose: | To ensure that valid users are able to export transactions tied to their accounts |
| Initial Conditions: | User has an account with a valid username and password. User navigated to the transactions page and has transactions on their accounts |
| Test Data: | Valid Username and Password for login |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Transactions” tab 4. User Clicks export button below table |
| Expected Results: | The browser begins to download the Excel Spreadsheet and the spreadsheet contains the User’s transactions |

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| Test Case ID: | 3.1 |
| Title: | View Notifications |
| Feature/Subfeature: | Notifications |
| Purpose: | To ensure that valid users are to view notifications that have been created |
| Initial Conditions: | User has an account with valid username and password and is on the notifications page, and the user has notification rules, and the user has notifications tied to the rules |
| Test Data: | Valid Username and Password |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Notifications Dashboard” tab 4. User clicks search 5. User clicks open on a notification rule |
| Expected Results: | If any notifications have been created they will show here, otherwise the table for notifications will be empty. Test 3.2 can be completed before this step to ensure proper functionality. |

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| Test Case ID: | 3.2 |
| Title: | Add New Rule |
| Feature/Subfeature: | System User Validation/Add New Rule |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to add new rules for their notifications. |
| Initial Conditions: | Initial conditions will include user has an account with Commerce Bank, and user has navigated to the notifications page |
| Test Data: | * Rule Name = Food over 10 * Transaction amount over = 10 * Account Balance under = null * Category = Food * Location outside of = null * Time = null |
| Test Actions: | 1. User clicks on the Add New Rule button 2. User enters test criteria for transaction 3. User clicks “Add RuleTransaction” |
| Expected Results: | User creates a new rule named Food\_over\_10. When a new transaction that satisfies the conditions for Transaction and Category is created the new transaction will show in the Food\_over\_10 notification. |

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| Test Case ID: | 3.3 |
| Title: | Edit Rule |
| Feature/Subfeature: | System User Validation/Edit Rule |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to edit rules for their notifications. |
| Initial Conditions: | User has an account with a valid username and password. User navigated to the transactions page and has notification rules on their account |
| Test Data: | Valid Username and Password for login  Rule info   * New Rule Namer = Food\_over\_10 * Transaction amount over $ = 10 * Account balance under$ = null * Category = Food * Location outside of = null * Time = null |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Notifications” tab 4. User clicks search 5. User clicks edit button on a notification rule 6. User enters edited rule information 7. User clicks edit |
| Expected Results: | The notification rule’s conditions are changed on the database and the existing notifications tied to the rule are deleted |

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| Test Case ID: | 3.4 |
| Title: | Delete Rule |
| Feature/Subfeature: | System User Validation/Edit Rule |
| Purpose: | To ensure that only persons with an account at Commerce Bank are able to delete rules for their notifications. |
| Initial Conditions: | User has an account with a valid username and password. User navigated to the transactions page and has notifications on their account |
| Test Data: | Valid Username and Password for login |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Notifications” tab 4. User clicks search 5. User clicks delete button on a notification rule |
| Expected Results: | The notification rule is deleted and the existing notifications tied to the rule are deleted |

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| Test Case ID: | 3.5 |
| Title: | Exporting Notifications |
| Feature/Subfeature: | Exporting |
| Purpose: | To ensure that valid users are able to export transactions tied to their accounts |
| Initial Conditions: | User has an account with a valid username and password. User navigated to the notifications page and has notification rules on their account and the rules have notifications of triggered transactions |
| Test Data: | Valid Username and Password for login |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Notifications” tab 4. User Clicks export button below table |
| Expected Results: | The browser begins to download the Excel Spreadsheet and the spreadsheet contains the User’s Notifications |

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| Test Case ID: | 4.1 |
| Title: | Transaction Triggered Notification |
| Feature/Subfeature: | Add Transaction/Notification Trigger |
| Purpose: | To ensure that notifications that have been setup are being triggered by transactions |
| Initial Conditions: | Initial conditions will include user has an account with Commerce Bank |
| Test Data: | Valid Username and Password for login  Notification Criteria:   * Rule Name = Food over 10 * Transaction amount over = 10 * Account Balance under = null * Category = Food * Location outside of = null * Time = null   Transaction Criteria:   * Account Number = 2 * Date: 2020-05-17 * Transaction Amount = 10.48 * Description = Rye * Category = Food * Location = Missouri * Transaction Type = Withdrawal |
| Test Actions: | 1. User navigates to Commerce Bank Website 2. User logs in 3. User navigates to “Notifications Dashboard” tab 4. User clicks “Add New Rule” button 5. User inputs notification criteria 6. User clicks “Add Rule” button 7. User checks to make sure notification shows up in table on “Notifications Dashboard” tab 8. User navigates to “Transactions” tab 9. User clicks “Add New Transaction” button 10. User inputs transaction criteria 11. User clicks “Add New Transaction” button 12. User navigates back to “Notifications Dashboard” tab 13. User hits “Search” button |
| Expected Results: | A transaction is added to the user’s transactions, and the transaction is added as a notification to the user’s notifications |