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| **Test Number** | **Test Case Type** | **Description** | **Test Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Status** |
| **1** | Functionality | Program correctly allows users to add transaction. | Selecting “Add Transaction” from transaction Menu and then inserting it into “Internet” category.  Then navigating to Menu and clicking on “View Transactions”. | Transaction for category label: “Utilities”.  Amount: “45”.  Transaction date (DD/MM/YYYY): “11/03/2024”. | The program should allow the correct input fields to be inputted and then correctly display the information inputted into “Utilities” category from the viewing transaction feature. | The program created the transaction flawlessly and displayed it back to us with the correct information. | Pass |
| **2** | Functionality | Verifying viewing of transaction feature, so inserting a transaction and then checking to see if it updates on the view transaction feature. | Inserting a transaction from “Transaction Menu”, traversing back to Menu, and clicking on the view transaction feature h | Transaction for category label: “Utilities”.  Amount: “65”.  Transaction date (DD/MM/YYYY): ”08/03/2024”.  Transaction Description:  “Phone bill”. | The program should let you view the transaction you just created and any other transaction that was there already. | The newly created transaction was made with ease and viewing it also confirmed it’s creation, so the viewing feature is working as expected. | Pass |
| **3** | Functionality | This test involves moving a transaction from one category to another category and then clicking on view transaction to see what category it is in, using data already in the program of a transaction. | Navigating to “Transaction”, using the move transaction feature, and moving the phone bill related transaction from “Utilities” category to “Luxury” category. | Transaction Description:  “Phone bill”.  New assigned category: “Luxury”. | The program should let you move the transaction from one category to another without issue and then viewing it shows the new category set to “Luxury”. | Creating the transaction went as excepted and moving it from one category to another went smoothly resulting in a successful test. | Pass |
| **4** | Functionality | Testing the modification of transaction feature, so changing the amount the transaction used from x to x, firstly verifying the phone bill transaction is in the program and then attempting to change it. | Navigating to “Transaction”, clicking on “Display All Ongoing Transaction”.  Then using the update feature to change amount.  Finally, then clicking on “Display All Ongoing Transaction”. | Transaction used: “Phone Bill”.  Transaction amount: “65”.  Transaction ID: “TR00000000”.  New transaction amount: “50”. | Amount used in created transaction should change from “65” to “50” and clicking on the view transaction feature list should verify this by displaying that change. | The creation of the transaction “Phone Bill” went smoothly but unexpected error arose trying to update the transaction amount, which resulted in the program saying, “Make sure the Transaction ID is correct”, even though it was correct. | Fail |
| **5** | Functionality | Removal of transaction working as intended, so adding a new transaction, assigning it to “Utilities” categories and then verifying it was made by viewing it in the view transaction feature.  Once verified, move to the removal of it and then the viewing of all transaction to see its removal. | Navigating to transaction menu and creating the new transaction.  Then navigating to “Display All Ongoing Transactions”.  Then navigating back to Menu and removing that transaction through “Delete” transaction.  Then navigating to “Display All Ongoing Transactions”. | Transaction category assigned to: “Utilities”.  Transaction amount: “80”.  Transaction Description: “Water bill”.  Transaction date (DD/MM/YYYY): ”05/03/2024”.  Transaction ID: “TR00000000”. | The program should allow the deletion of transaction, so verifying that the created transaction was added correctly to “Utilities” by adding it and then viewing it in the view transaction feature and then removing it and checking the view transaction feature again to see its removal. | This test went as expected, through the creation of the transaction and the removal of it, successful test. | Pass |
| **6** | Functionality | This test will involve checking to see if the budget feature works as intended, and an input of income higher than the budget will result in an error message. Firstly, we’d need to create a category and a new transaction to test this. | Navigating to “Category”, creating a new category, then navigating to “Transaction” and creating a transaction that belongs to the newly created category, assigning a transaction amount exceeding the budget for the category. | Category label: “Essentials”.  Category budget: “350”.  Category date (MM/YYYY): “03/2024”  Transaction label: “iPhone 15”.  Transaction amount: “1100”  Transaction date (DD/MM/YYYY): “10/03/2024” | Progressing through the creation of the category should pose no issues, once creating the transaction, there should be an error when attempting to exceed the limit of the budget of assigned category, so some form of recognition from the program stating what has occurred and or an error message. | Creating the category and assigning it a budget poses no problems but when it comes to creating the transaction, the program does not care for the budget set by the category it is being assigned to, and so the exceeding budget transaction is allowed to occur and without any error message too, which should not be allowed. | Fail |
| **7** | Functionality | Checking to see if the preset categories exist and the feature isn’t empty. | Navigating to “Categories”. | Category key to view all categories: “4”. | After navigating to categories feature and using the view function, the program should display a preset of categories and the list should not be empty | The program does not contain any list of preset categories from viewing all categories for the current month when starting the program from scratch, this was unexpected and is a failed test. | Fail |
| **8** | Functionality | Addition of a category and then clicking view categories to see its existence. | Navigating to “Categories”, inserting category.  Clicking on view categories and viewing category created. | Category label: “Internet”  Budget allocated: “150”.  Date allotted (DD/MM/YYYY): “03/2024”. | After navigating to “Categories” feature, the program should display a preset of categories and the list should not be empty | The creation of a new category and then the viewing of went exactly as expected, working without any issues. | Pass |
| **9** | Functionality | The modification to a categories’ name, seeing if it is working as intended, so creating a new category then changing its name, then viewing list categories to verify the change. | Navigating to “Categories”, adding a new category, then clicking view all categories.  Then start renaming the categories and again clicking view all categories. | Category label: “Mobile”.  Budget allocated: “60”.  Date allotted (MM/YYYY): “01/2024”.  Category label renamed to: “Sim”. | The program should let you add a new category, then after seeing it added, renaming it from “Mobile” to “Sim” should pose no issue then verifying the change through viewing all categories and seeing the change being made faithfully. | Creating the category “Mobile” went as expected functioning correctly, but the issue came when attempting to change category to “Sim” as the program did not recognise the change wanting to be made, unexpected and a failure. | Fail |
| **10** | Functionality | The removal of a category test, so adding a new category, verifying it was created through viewing it and then removing it and viewing the category list to see its removal. | Navigating to “Categories”, adding a new category, then clicking view all categories.  Then navigate back to categories and remove the category created then click on view categories. | Category label: “Internet”.  Budget allocated: “150”.  Date allotted (MM/YYYY): “03/2024”. | The addition of a new category should be created with no hassle and then the program should allow you to view that category created, once created the removal of that category should remove it and then viewing that month’s category in which it was created should display its absence. | Creation of a new category went successfully and the viewing of it, to verify it was made and then the removing of it and checking if it was removed also went as expected. | Pass |
| **11** | Usability | Program Menu allows smooth navigation, allowing users to click on a feature and allowing them to return to the Menu. | Navigating to Menu and clicking on “Transaction” and then Returning to Menu.  Then navigating to “Category” and then Returning to Menu.  Then navigating to “Budget” and then Returning to Menu. | “Transaction” traversal key: “1”.  “Transaction” return to menu key: “10”.  “Category” traversal key: “2”.  “Category” return to menu key: “5”.  “Budget” traversal key: “3”.  “Budget” return to menu key: “”. | Navigation is smooth and the result should indicate that the traversal back to the menu occurs without any trouble. | Traversal of the program was smooth and all working correctly and so the it was as expected. | Pass |
| **12** | Usability | Simply checking if the program closes correctly from the main Menu. | Navigating to the Menu and then inserting the key to exit the program | Exit key from Menu: “4”. | The program should just close and nothing else occurs after entering the exit key | The program loaded correctly and then simply exiting it worked and it closed the program instantly. | Pass |

Test Screenshots

**Test Number 1:**

Creating a transaction:

A screenshot of a computer

Description automatically generated

Viewing that transaction:

A screenshot of a computer

Description automatically generated

**Test Number 2:**

Creating a transaction for “Utilities”:

A screenshot of a computer

Description automatically generated

Viewing that transaction:

A screenshot of a computer screen

Description automatically generated

**Test Number 3:**

Current data on phone bill transaction:

A screenshot of a computer

Description automatically generated

Changing the category for the transaction:

A screenshot of a computer screen

Description automatically generated

Viewing the transactions to see the change from “Utilities” to “Luxury”:

A screenshot of a computer screen

Description automatically generated

**Test Number 4:**

Transaction descriptive view:

A screenshot of a computer screen

Description automatically generated

Changing the amount from “65” to “50”:

A screenshot of a computer

Description automatically generated

**Test Number 5:**

Transaction creation:

A screenshot of a computer screen

Description automatically generated

Viewing of transaction:

A screenshot of a computer

Description automatically generated

Removal of transaction:

A screenshot of a computer screen

Description automatically generated

Viewing of all ongoing transactions:

A screenshot of a computer

Description automatically generated

**Test Number 6:**

Creating the category:

A screenshot of a computer program

Description automatically generated

Creating the transaction:

A screenshot of a computer

Description automatically generated

Viewing transaction from “Display All Ongoing Transactions”:

A screenshot of a computer

Description automatically generated

**Test Number 7:**

Entering the current date into the view categories feature:

A screenshot of a computer program

Description automatically generated

**Test Number 8:**

Creation of category:

A screenshot of a computer program

Description automatically generated

Category being displayed in the view feature:

A screenshot of a computer screen

Description automatically generated

**Test Number 9:**

Creation of category:

**A screenshot of a computer program

Description automatically generated**

Viewing of newly created category:

**A screenshot of a computer

Description automatically generated**

Attempting to rename the category:

**A screenshot of a computer program

Description automatically generated**

**Test Number 10:**

Creation of category:

A screenshot of a computer program

Description automatically generated

Category being displayed in the view feature:

A screenshot of a computer screen

Description automatically generated

Removal of category:

A screenshot of a computer program

Description automatically generated

Verifying its removal through viewing categories:

A screen shot of a computer

Description automatically generated

**Test Number 11:**

Traversing to “Transaction”:

**A screen shot of a computer

Description automatically generated**

**A screenshot of a computer screen

Description automatically generated**

Traversing back to menu:

A screenshot of a computer screen

Description automatically generated

Traversing to “Category”:

A screen shot of a computer

Description automatically generated

A screenshot of a computer menu

Description automatically generated

Traversing back to menu:

A screenshot of a computer program

Description automatically generated

A screen shot of a black screen

Description automatically generated

Traversing to “Budget”:

A screen shot of a black screen

Description automatically generated

A screen shot of a computer

Description automatically generated

Traversing back to menu:

A screenshot of a computer menu

Description automatically generated

A screen shot of a black screen

Description automatically generated

**Test Number 12:**

Entering the exit button key on the menu:

A screen shot of a black background

Description automatically generated

**Notes:**

* Create a list of preset categories
* Transacation menu number 6 is buggy and or just not working
* Attempt to not require exact dates when wanting to view transactions
* Changing of category should require a long 10 digit code
* The TR code is always the same, set to “TR00000000” does not change even with new transactions
* Why can I create transaction without having set a budget to a category through the budget option, unless the budget is truly assigned from the creation of the category itself
* Option “4” from the budget menu doesn’t seem to function correctly