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| **Test Number** | **Test Case Type** | **Description** | **Test Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Status** |
| **1** | Functionality | The purpose of this test is to create a transaction and check if it can be made to be set to recurring, so creating a budget for the month, assigning a budget to one of the preset categories and then finally creating the transactions and attempting to make it into a recurring transaction. | Navigating to “Budget” setting a budget, then navigating to “Category” and setting a budget for a preset category chosen.  Then navigating to “Transaction” and creating a transaction and then turn this newly created transaction into a recurring transaction.  Finally, navigate to display transaction feature and view newly created transaction. | Monthly budget:  “1000”.  Category label: “Food”.  Category budget: “240”.  Category date (MM/YYYY): “03/2024”  Transaction used: “Groceries”.  Transaction amount: “150”.  Transaction date (DD/MM/YYYY): “09/03/2024” | The program should allow the creation of a budget for the month and the allocation of it for a preset category and then allow creation of a transaction and the option to set it to recurring, and then finally viewing this change by displaying transactions and seeing the recurring tag be in the transaction description. | The program executed as intended, allowing easy allocation of a budget for a month and category, creation of a transaction, assigning it to a recurring tag and then finally the viewing of this from the display transaction feature. | Pass |
| **2** | Functionality | The reasoning for this test is to check if the program allows you to insert an income as an option, as it is one of the core requirements of a budget application, so the test will involves creating an income and then viewing it to see if it shows in the viewing feature. | Navigate to “Category” and insert a label.  Select option as not an expense, insert a date. | Income category label: “Bonus”.  Income date (MM/YYYY): “03/2024”.  Transaction label: “Storage Sale”.  Transaction income value:  “350”.  Transaction date (DD/MM/YYYY): “01/03/2024”. | The program should let you create an income category without asking for a budget since an income category doesn’t need a budget because it is an income, and then it should let you create a transaction income and then also let you view that change. | The result was exactly as intended with the creation of the category income and the program not asking for a budget for an income category and then also the creation of income transaction and the viewing of it went exactly as expected. | Pass |
| **3** | Functionality | Testing to see if the budget tracker works correctly, so creation of data that fulfils this purpose, as I want to test if the program shows your expense compared to your budget at the bare minimum, so a user can track how much they have been spending, so creation of transaction and income and seeing it both get displayed. | Navigate to “Budget” and assign a budget for the month and then navigate to “Category” and change the budget for a preset category.  Then navigate to “Transaction”, create a transaction and an income and an expense transaction.  Finally navigate to the menu and use the budget tracker viewing option. | Budget for the month: “1500”.  Budget date (MM/YYYY): “03/2024”.  Category used: “Transportation”.  Category budget:”45”.  Transaction Income value: “350”.  Transaction expense value: “7.65”.  transaction expense label: | The creation of the preset category and budget should be allowed without any issues and so should the creation for an income transaction and an expense transaction and the viewing of it should be seen in the tracking feature, it should also show how much of budget is left from deducting a month’s budget from the expense. | The result went exactly as planned, the creation of the budget for the month, preset category budget, expense and income transaction also went smoothly, then finally the main point of viewing these transactions went smoothly with displaying them correctly and the remaining budget also being displayed correctly. | Pass |
| **4** | Functionality | This test is the testing of an old test from the last version which involved testing if you could create a duplicate category, which shouldn’t be allowed, and it was allowing and so this time around the same test will occur. | Navigate to “category” and create a category named after any preset category. | Category label used: “Food”. | The test should involve some sort of indication that the creation of this category didn’t come to fruition as duplicate category labels shouldn’t be allowed. | The test went as planned this time round and the creation of a duplicate category was not accepted, and the program prompted an error message after attempting to do this. | Pass |
| **5** | Usability | This test is centred around seeing if the program is readable and has correct colour thematic in place, an example being testing if an error occurs does that message display in red or not, so this test will involve inserting a string into a section that requires numerical value and seeing how easy it is to tell what has gone wrong. | Navigate to “Transaction”, create transaction, and use string in numerical input that asks for transaction amount. | Transaction label being used: “Food”.  Transaction amount: “fifty pounds”. | The program should not let you insert string into numerical input field, and it should have a clear visual indication that something has gone wrong. | Exceeded expectations, as visual clarity was met with the error message being prompted in red when attempting to insert string values where numerical values should be instead. | Pass |

**Test number 1:**

Creating budget for the month:

A screenshot of a computer program

Description automatically generated

Assigning a budget for a preset category:

A screenshot of a computer program

Description automatically generated

Creating transaction and setting it to monthly:

A screenshot of a computer

Description automatically generated

Viewing the transactions list:

A computer screen with white text

Description automatically generated

**Test number 2:**

Creating income category:

A screenshot of a computer screen

Description automatically generated

Creating transactional income:

A screenshot of a computer

Description automatically generated

Viewing the transaction:

A computer screen with white text

Description automatically generated

**Test number 3:**

Budget creation:

A screenshot of a computer program

Description automatically generated

Adjusting preset category:

A screenshot of a computer program

Description automatically generated

Creating transaction for preset category:

A screenshot of a computer screen

Description automatically generated

Viewing budget and expense feature usage:

A screenshot of a computer screen

Description automatically generated

Test number 4:

Creating category with a label that is already being used:

A screenshot of a computer program

Description automatically generated

Test number 5:

Insertion of string value instead of numerical value:

A screenshot of a computer screen

Description automatically generated