Test plan - savings app

Requirements:

\* view a balance for a user

\* view the balances for all users

\* add funds for a user

\* remove funds for a user (funds must not go below 0)

\* add a new user with a balance of 0

\* remove a user

\* exit the app

Complete the table to plan how you will test each of the requirements. Each will need one or more tests to ensure that all possible cases have been tested.

You should test with valid users, non-valid users, valid and non-valid data types, etc.

TRY TO FILL THIS TABLE IN FIRST, then run the app, create 10 users with various balances and modify the data column to match the data you have in the app.

REMEMBER - the objective is to get the app to fail (it should do this quite easily if you have tested it fully).

| **Test no.** | **What is being tested?** | **Data (user\_id, amount) used?** | **Expected outcome** | **Actual outcome** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| 1 | Views all records in the savings table  (get\_data()) | No data | user\_id balance  --------- ---------  1 44  2 5  3 42  4 32  5 25  6 5  7 26  8 39  9 45  10 0 | user\_id balance  --------- ---------  1 44  2 5  3 42  4 32  5 25  6 5  7 26  8 39  9 45  10 0 | This test works |
| 2 | View the balance for an valid user | (get\_user\_data(1, db\_conn)) | 44 | 44 | This test works |
| 3 | View the balance for a non-valid user | (get\_user\_data(15, db\_conn)) | User does not exist | User does not exist | This test works |
| 4 | View the balance with an incorrect data type | get\_user\_data(“1”, db\_conn) | Invalid user\_id data type | Screenshot of error message |  |
| 4a | View the balance with an incorrect data type | get\_user\_data(“1”, db\_conn) | Invalid user\_id data type | 44.0 | This test doesn't work |
| 5 | Add a new user with id 1 | 1 | User already exists |  | Need to add validation of user\_id to check if already exists |
| 6 | Exit the app | exit\_app(db\_conn) | “Exiting app…”  (and the app is exited) | “Exiting app…”  (and the app is exited) | This test works |
| 7 | Exit the closed app | exit\_app(db\_conn) | “The app is closed already” | 'NoneType' object has no attribute 'close' | Need to add an error message that will tell user the app is already closed |
| 8 | \* remove funds for a user (funds must not go below 0) | remove\_funds(user\_id, amount, conn) | “The balance can’t go below 0” |  | Need a constrain and to add error that will indicate the balance can’t go below 0 |
| 9 | remove a user | remove\_user(user\_id, conn) | User {str(user\_id)} deleted" | User 2 deleted  True | This test works |
| 10 | \* add a new user with a balance of 0 | add\_funds(user\_id, amount, conn) | User 12 record added,  “balance” |  | This test doesn't work. The last added user displays the balance of the last updated user record. |
| 11 | Remove funds greater than the balance from user and check balance | remove\_funds(user\_id, amount, db\_conn) | You can’t remove more than your balance” |  | Should add error message “You can’t remove more than your balance”  This test doesn’t work |
|  | Add more rows as necessary… |  |  |  |  |