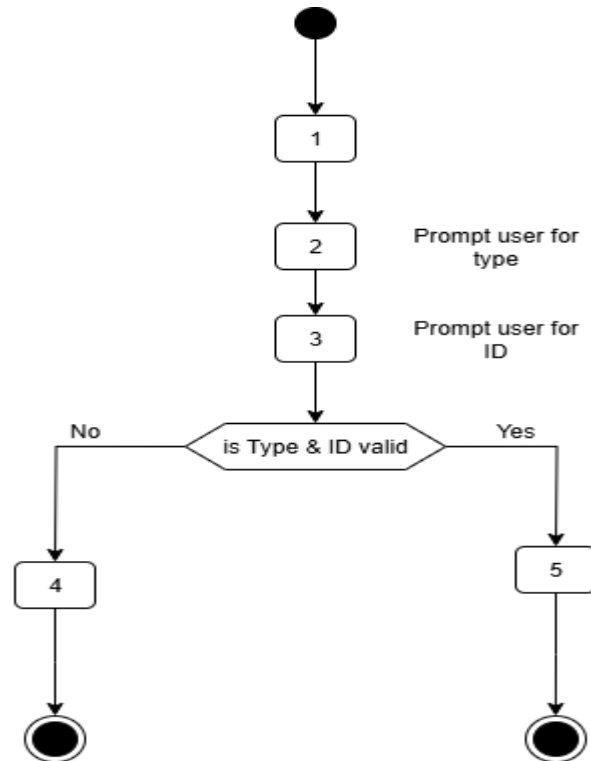Personal Budget tracker

ENSE 375 Project

Path Testing Delete Entry

Legend:

1: Start (User selects delete entry from database)

2: Prompt user for type

3: Prompt user for ID

4: Return False

5: Return True

Prime path Coverage:

For the delete entry method the prime paths are:

1. [1,2,3,4]
2. [1,2,3,5]

Test path Coverage:

For the delete entry method the actual paths for testing are:

1. [1,2,3,4]
2. [1,2,3,5]

Path Coverage:

1. **Path 1:** 1 -> 2 -> 3 -> 4
   Description: This path is the Invalid delete path branch where one or both of the user's input is incorrect
   a. Path Length: 4
   b. Simple path: Yes
   c. Prime Path: Yes
   d. Complete Round Trip Coverage: N/A
   e. Simple Round Trip Coverage: N/A
2. **Path 2:** 1 -> 2 -> 3 -> 5
   Description: This path is the valid delete path branch where both of the user's input is correct, and the entry is successfully deleted
   a. Path Length: 4
   b. Simple path: Yes
   c. Prime Path: Yes
   d. Complete Round Trip Coverage: N/A
   e. Simple Round Trip Coverage: N/A

Complete path coverage: Yes (Both Paths)

Definitions:

1. Path: Sequence of instructions in a program.
2. Path Length: Number of nodes in a path.
3. Complete Path Coverage: Path that ensures that all possible paths have been covered.
4. Complete Round Trip Coverage: Covering all loops in the program.
5. Simple Round Trip Coverage: Covering all simple cycles in the program.
6. Prime path: Simple path that is not a subset of any other paths.
7. Simple path: Path where no nodes appear more than once except start as end node.
8. Test path: sequence showing how execution flows through a program during a test.