

## Reid4.py Algorithm:

- I. MP3 class initialization for user dictionary.
- II. If the number of subscribers is zero, ask for a user to be the first subscriber
- III. If there is at least one subscriber, build the menu based on the number of users and the number of songs.
- IV. Run selection based on menu choice
  - A. Add User
    1. Asks existing user for a name
    2. Checks if the name exists in users
      - a) If name does not exist, create a new user
      - b) If name exists print that the user already exists
  - B. Change User
    1. Asks existing user for a name
    2. Checks if name exists
      - a) If name exists, switch to the name as the new user
      - b) If name doesn't exist, print that the name does not exist
  - C. Add A Song
    1. Asks the user for a song title and the artist
    2. Uses the add\_music module to add details to the user list
  - D. Retrieve Song Details
    1. Asks the user what song they would like to retrieve
    2. Checks if the song exists
      - a) If the song exists, display song title and artist info
      - b) If the song doesn't exist, print that it does not exist
  - E. Update Song Details
    1. Asks user which song they wish to edit
    2. Checks if the song exists
      - a) If the song exists ask user for updated artist info
        - (1) Recreates the song in the stored music library
      - b) If the song doesn't exist, prints that the song doesn't exist

#### F. Delete A Song

1. Asks user which song they wish to delete
2. Checks that the song exists
  - a) If song exists, the song is deleted using the delete module
  - b) If song doesn't exist, print a message saying it does not exist.

#### G. Display All Songs

1. Checks for music under the user
  - a) If music exists print all songs
  - b) If music doesn't exist print an error

#### H. Exit

1. Exit the program