### **CLASS User**

FUNCTION createProfile()

PromptUserForProfileDetails()

ValidateInputs()

SaveProfileToDatabase()

**END FUNCTION** 

## FUNCTION editProfile()

RetrieveExistingUserData()

PromptUserForChanges()

UpdateUserRecordInDatabase()

**END FUNCTION** 

#### FUNCTION viewFeed()

Call Feed.getFeed(UserID)

DisplayPostsOnFeed()

**END FUNCTION** 

## FUNCTION searchUsers(query)

Call Search.searchUsers(query)

DisplayMatchingUsers()

**END FUNCTION** 

### FUNCTION searchMusic(query)

Call Search.searchMusic(query)

DisplayMatchingSongs()

**END FUNCTION** 

## FUNCTION postMusic(songData, caption)

CreatePostWithSongData(songData, caption)

SavePostToDatabase()

**END FUNCTION** 

# FUNCTION likePost(postID)

CreateLikeObject(postID, isLike = TRUE)

SaveLikeToDatabase()

**END FUNCTION** 

### FUNCTION dislikePost(postID)

CreateLikeObject(postID, isLike = FALSE)

SaveLikeToDatabase()

**END FUNCTION** 

FUNCTION commentOnPost(postID, content)

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CreateCommentObject(postID, content)
    SaveCommentToDatabase()
  END FUNCTION
  FUNCTION sharePost(postID, receiverID)
    CreateShareObject(postID, receiverID)
    SaveShareToDatabase()
  END FUNCTION
  FUNCTION deletePost(postID)
    IF UserOwnsPost(postID) THEN
      DeletePostFromDatabase(postID)
    END IF
  END FUNCTION
END CLASS
CLASS Feed
  FUNCTION getFeed(userID)
    RetrievePostsForUser(userID)
    SortPostsByTimestamp()
    ReturnPostList()
  END FUNCTION
END CLASS
CLASS Search
  FUNCTION searchUsers(query)
    QueryUserDatabase(query)
    ReturnMatchingUserList()
  END FUNCTION
  FUNCTION searchMusic(query)
    QuerySongMetadataDatabase(query)
    ReturnMatchingSongList()
  END FUNCTION
END CLASS
CLASS Post
  FUNCTION delete()
    DeleteAssociatedLikesCommentsShares()
    DeletePostFromDatabase()
  END FUNCTION
  FUNCTION editCaption(newCaption)
    UpdatePostCaption(newCaption)
```

### **END FUNCTION**

FUNCTION fetchMetadata()
Call MusicAPI.fetchMetadata(songLink)
ReturnSongMetadata()
END FUNCTION
END CLASS

**CLASS Share** 

FUNCTION sharePost()
NotifyReceiverOfShare()
LogShareInDatabase()
END FUNCTION
END CLASS

CLASS SystemAdmin

FUNCTION manageUserAccounts()
RetrieveAllUserAccounts()
ApplyAdminFilters()
PerformAccountManagementActions()
END FUNCTION

**END CLASS**