Name: Nathan McKenna

Project: Booze Tracker

Requirements:

I covered the following two user requirements:

UR-03	As a user, I need to be able to see the estimate of my current BAC both visually and numerically so that I can track intoxication level.	UI	High
UR-04	As a user, I need to be able to enter information about my size and gender to better approximate BAC.	BAC	High

Use Case Documents:

Use Case UC-UR-03	Use Case Name View current BAC	Date: March 12, 2017
		Version: 0.1

Description	User can see a numerical and visual representation of their estimated BAC
User Priority	High
Performance	BAC representation is up-to-date with the current estimate based ont he time and number of drinks consumed
Primary Actor	User of application
Preconditions	The user must have already entered the necessary information for BAC calculation. The user must have already had a drink for their BAC to be greater than 0
Postcondition	On Success: The user is informed of their current BAC estimate through a number and beer glass

	<table><tr><td></td><td>visual.</td></tr><tr><td>On Failure</td><td>The user will be alerted that they have had no drinks today.</td></tr></table>
Trigger	User navigates to the main view.

Main Scenario

#	Actor Action	System Response
1	User navigates to the main view or is already there	Current BAC is fetched from the model
2	User views their current BAC	View displays the BAC as a number and graphic
3		

Terminates Use Case Successfully

Exception Scenario:

#	Actor Action	System Response
1	User navigates to the main view or is already there	Current BAC is fetched from the model
2	User views their current BAC	Model returns BAC is 0 because no drinks have been consumed today
3	User views the alert that no drinks have been consumed	User is notified that no drinks have been consumed

Terminates Use Case Unsuccessfully

Annotation

Use Case UC-UR-04	Use Case Name Edit personal settings	Date: March 12, 2017
		Version: 0.1

Description	User inputs their weight, height,age, and gender for use in the BAC calclation.
User Priority	High
Performance	Update happens within 100ms
Primary Actor	User of application
Preconditions	None
Postcondition	<table><tr><td>On Success</td><td>The characteristics are saved in the database. The BAC algorithm correctly uses the new personal characteristics.</td></tr><tr><td>On Failure</td><td>The glass in the beer is not updated. User has cleår notification.</td></tr></table>
Trigger	User clicks on the height, weight, and gender fields in the settings view.

Main Scenario

#	Actor Action	System Response
1	User navigates to the settings view	System displays the settings view
2	User enters height, weight, age, and gender	Model verifies information
3		Model stores characteristics in database
4		Model updates the configuration-service used by the BAC algorithm.
5		View is updated with new info

Terminates Use Case Successfully

Exception Scenario:

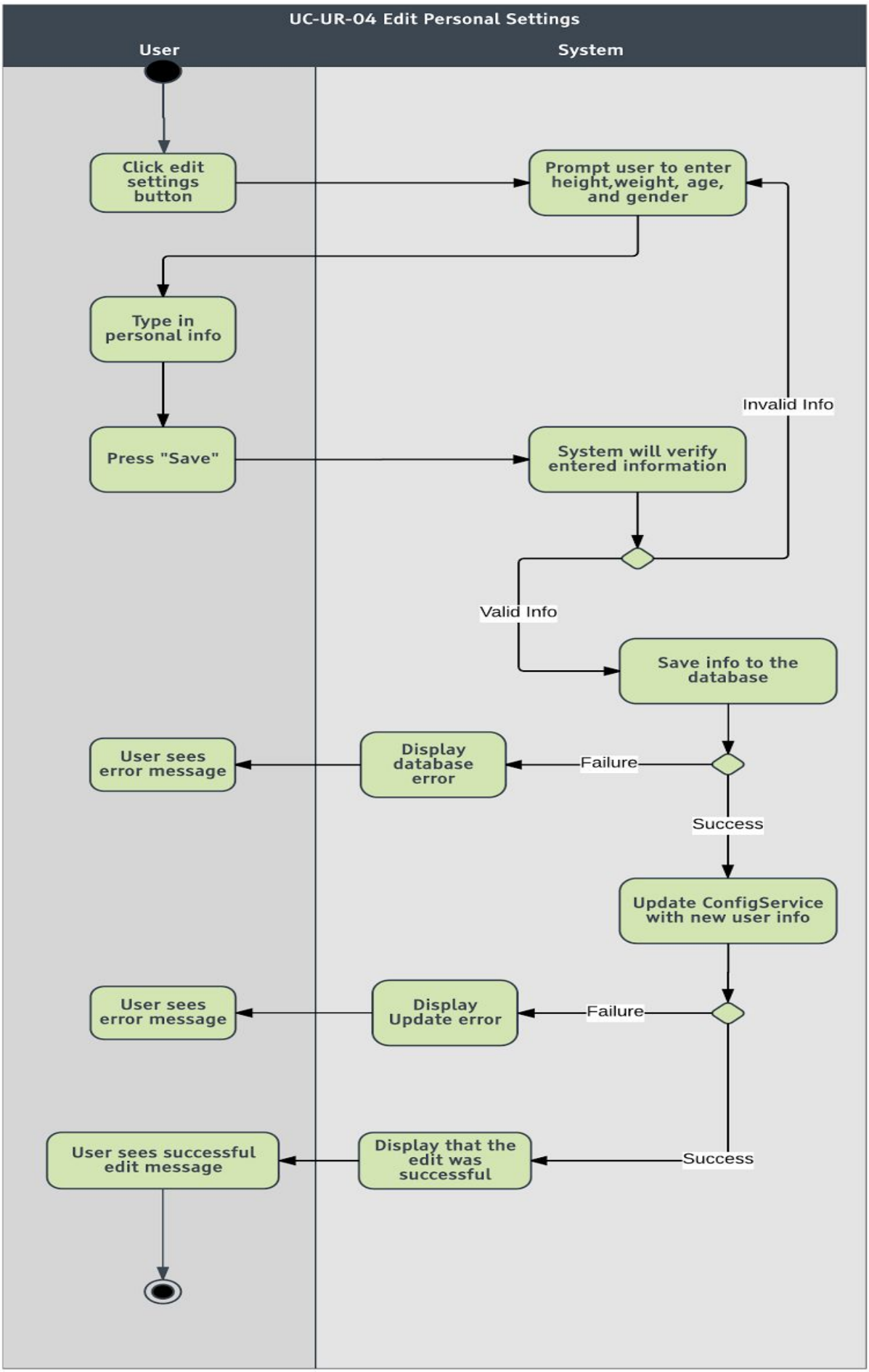
#	Actor Action	System Response
1	User navigates to the settings view	System displays the settings view
2	User enters height, weight, and gender	Model fails to verify characteristic info, or has error in updating database or updating view
3		User is notified of error.

Terminates Use Case Unsuccessfully

Annotation

Activity Diagram:

The activity diagram below is for user requirement UR-04 and corresponding use case UC-04. This activity diagram gives an flow overview of how the program functions when a user wishes to edit their saved personal settings such as height, weight, age, and gender. The diagram is on the following page.


UC-UR-04 Edit Personal Settings
User
System
Click edit settings button
Prompt user to enter height,weight, age, and gender
Type in personal info
Press "Save"
System will verify entered information
Invalid Info
Valid Info
Save info to the database
Failure
Display database error
User sees error message
Success
Update ConfigService with new user info
Failure
Display Update error
User sees error message
Success
Display that the edit was successful
User sees successful edit message

Sequence Diagram:

This sequence diagram is for the requirement UR-04 and the associated use case UC-04. This sequence diagram details how the objects relate to one another when a user wishes to edit their saved personal settings such as height, weight, age, and gender. The diagram is on the following page.

SEQUENCE DIAGRAM SD-UC-UR-04 EDIT USER SETTINGS

Nathan Mckenna | March 13, 2017