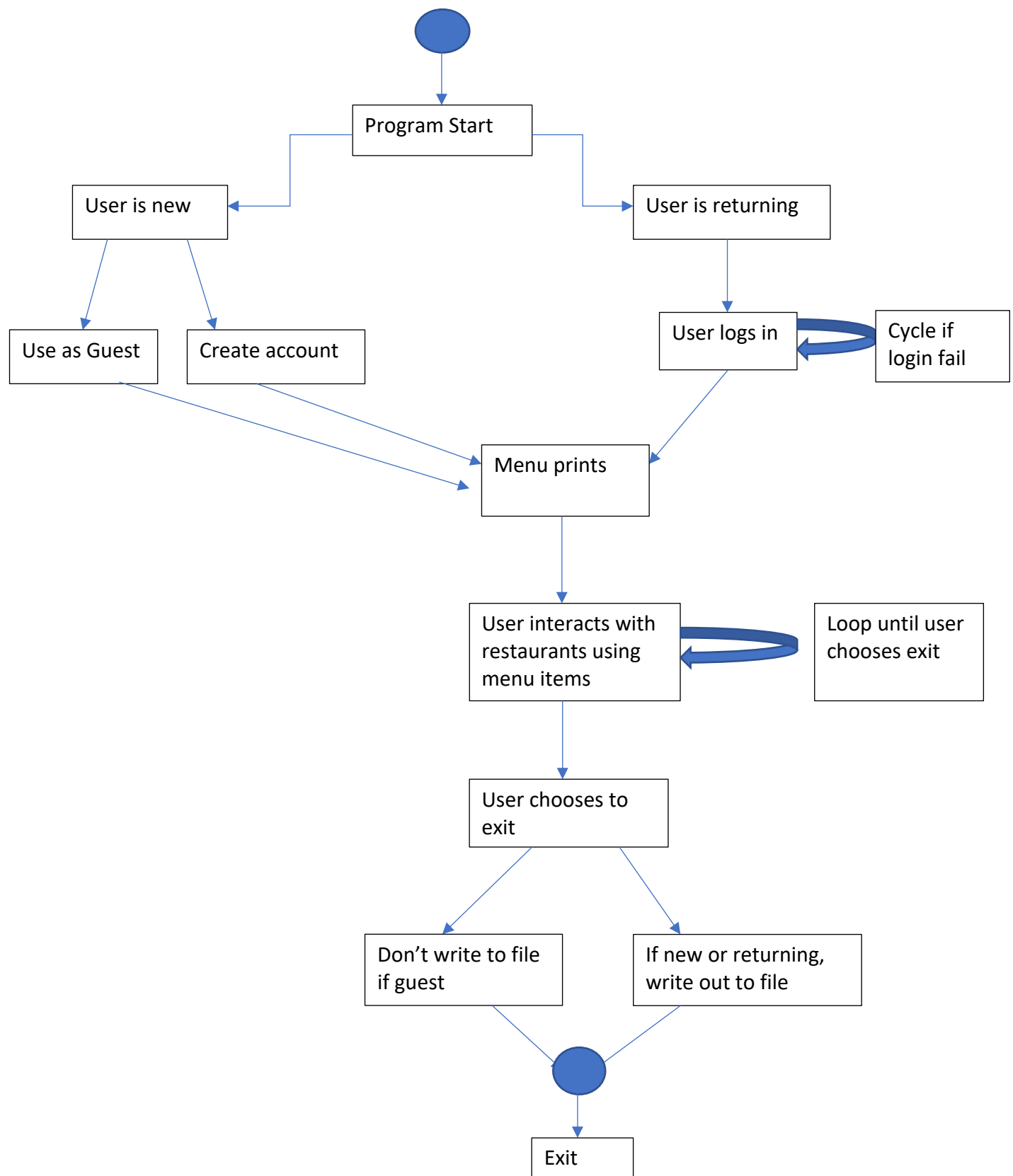


Activity/State Diagram:



Class Diagrams:

Account
m_accName – String, username
getName() – returns string m_accName setName(String name) – sets m_accName login(String name) – takes in a user name and attempts to login (open the corresponding file), returns true if successful, false otherwise

Executive – main program loop
UI object – to call UI methods Account object – to call account method m_restVec – vector of restaurant objects m_isReturning – bool to track type of user m_menuChoice – int to hold choice
Constructor() – initialize member vars Destructor() – clear the vector Run() – main loop, call UI methods in here, read in and write out for here, call account login here, handle menu choice logic of which UI method to run here readIn(String name) – take in a user name and read in from that file writeOut(String name) – take in a user name and write out to that file fillCuisineVect() – fill out a cuisine vector for easy printing of cuisine types when user wants to search by cuisine

Restaurant
m_restName – String, name of restaurant m_restPrice – int , price range of restaurant m_restCuisine – String, cuisine type of restaurant m_restRating – double, Global restaurant rating m_restPRating – double, Personal rating
Constructor(String name) Getters and setters for all member variables Getters return the value, setters set the value

UI – handles main console output and vector manipulation
m_restVec – restaurant vector, local access to the restaurant vector
Constructor(restaurant vector) – initializes m_restVec -printMenu() – prints all menu options and gets user input, returns int that is user input printAll() – prints all restaurant object data that is in the vector -printByPrice(lower, higher) – prints all restaurant objects in a price range bound by two ints given as params -printByCuisine(choice) – prints all restaurant objects that are of a user chosen cuisine type - printByRating(type, upper, lower) – prints all restaurant objects in a certain rating range, ints as param, and of certain rating type, int, (personal or global) -printRandom() – prints random restaurant giveRating(name, rating) – user gives a rating, string and int param removeRest(name) – remove user chosen restaurant, string param