University of Colorado Boulder Alumni Engagement Loyalty Program

What is Alumni Engagement Loyalty Program?

In order to provide incentive to Young Alumni keep engaging with the University, the University offer different kinds of benefits that alumni can use their engagement points to redeem. The program is a user platform that let alumni log into their account with their ID number, check their engagement status, request engagement points and redeem gifts.

Project Goal:

The project goal is to implement object oriented programming concept by using C++and fulfil the need of Alumni Engagement Loyalty Program automation.

How the program works:

The program will import a list of current alumni data set that includes following fields: ID, First Name, Last Name, Graduation Year and Major. To start the program, the program will ask users to log into their account with their IDs or other information. If the program can't find such ID in the input data set, it will keep asking the users the question. If users input their information, e.g. First Name, Last Name, Graduation Year and Major, the program will look up their ID. If there is no such record in the input data set, the program will add the users into it and assign ID to the users (sort the ID number form smallest to largest, new ID is add 1 to largest current ID). After user login to account, the program will ask users if they would like to request or redeem points. If users choose request points, the program will list down event list that users can request. Once users selected certain event, the program will add the points to their current points and show most up-to-date points. If users choose redeem points, the program will list down gift list that users can redeem. Once the users selected certain gift, the program will deduct the points and show most most up-to-date points. And then ask users to input their address information and record the information into data set. The program can let users to request or redeem points as many time as they wish, once users log out from the program, the program will output file to keep updated alumni data set and end the program.

Project Structure:

Layer	Required Features	Optional Features

1. Log-in Page
  - Enter ID #
  - Find your ID #/Create your ID # (By input First, Last Name, Grad Year and Major)
	Users can input ID number to retrieve their account, if the user doesn't remember ID number, the system can look it up by matching first name, last name, graduation year and major information. If the user is not in the system, the the system will add the user in and assign a new ID number.	Build a nickname checker system. (If someone input first name "Nick" instead of their official first name "Nicolas" in the system, the system still can find the record.

2. Menu Page
  - Greetings first and last name.
  - Show the current Engagement
  - Menu options:
    • Request your Engagement Points
    • Redeem your Engagement Points
    • Exit
	After retrieve the user's information, the page will show user's current engagement status and engagement ranking.
	List down the menu for user to choose next action.
		Visualize engagement with Raphie graphic, indicate user's engagement point with color bar rising.

3. Following Pages
  - If choose 'request points', list down events the person would like to request point. Once user choose the event return to menu page.
  - If choose 'redeem points', once user chose the item they would like to redeem, ask user to input their address. Then return to Menu Page
	Once user choose to request/redeem points the system will modify the record base on user's choice. And return to menu page, with updated engagement status and ranking.
	
	If user choose to redeem a gift, the system will ask user to input mailing address, the info will be recorded into system.	