# Primary Objective

The primary objective of our program is to simplify the process by which the Veteran Services Department at Century College helps veterans determine which benefits the qualify for. Currently, veteran students at Century either need to determine this on their own or schedule an appointment with Veteran Services. During these appointments, staff must ask the veteran a series of questions to determine which benefits they qualify for. Our goal is to develop a program that will ask veterans these questions and inform them of which benefits they may qualify for. This will free up time and resources for Veteran Services and potentially allow them to schedule appointments with veterans to have more in-depth discussions about their benefits.

# Secondary Objectives

Since the nature of military benefits is very complex there may overlapping benefits a veteran may qualify for. As a secondary objective, we would like our program to be able to find these overlaps and inform the user.

To further assist the veteran students, we would like them to have the ability to schedule an appointment with Veteran Services once they have completed the questionnaire. The program will forward the veteran’s information, including a summary of how they answered each question and which benefits they may qualify for to Veteran Services.

Create an architecture for an editable question set, as the VA benefit system does change often it may be expedient to make a UI/UX solution to allow our VA office to edit the question set and flow without in depth programing knowledge.

# Primary Data Structure

Our goal is to implement the series of questions so that they can be answered by a simple yes/no response. The line of questioning will begin with more general questions and continue on to more specific ones. The response to any question will determine which question will be asked next. Therefore, we will implement a tree data structure to organize our line of questioning. Each question will be a node in the tree and each yes/no response will point to the next question. The leaves of the tree will be the benefit the user qualifies for given the traversal of the tree. The goal is to have UI that can except Question objects then displays them properly.

No

No

Yes

Yes

Benefit

Benefit

Benefit

Benefit

Benefit

Yes

No

Benefit

Q3

Q2

Yes

No

Q1

Q7

Q6

Yes

No

Q5

Q4

Yes

No