**Objectives:**

* Build an application that allows a client to submit a file (PDF, docx etc.)
* The application will search through the file and find a set of predefined key words, phrases etc.
* If the application finds matches for these key words or phrases it will notify “success” and failure otherwise

**Constraints:**

* The application must have a GUI
* Application must allow the user to submit one file (.pdf extension) at a time

**Search algorithm pseudo code:**

* Search through text file, checking the length of each term to see if it matches with a certain case in our switch case
  + The cases in our switch case correspond to various word lengths that the administrator of the system has predefined
* Once it finds a matching case, it dives into that case
  + It converts the found word in the paragraph to an ASCII value
  + The hard coded values within the case are stored in an ordered list
  + A binary search is then conducted to see if the found word in ASCII value form matches a number stored in the ordered list
    - If yes, add the found word to a stack
* If the stack becomes of a certain size, end the search (the resume passes through)