Team members: Na Luo, Yoonduk Kim, Leon Wee

Project name: Swap Notes (temporary)

Project description

Swap Notes is a Java application that takes a PDF format e-book file and creates a summary document based n user input.

For example, let's assume that the user has obtained the e-book PDF of the "Big Java" textbook through various means.

1) User loads the "Big Java" PDF file in the program
2) User enters the keyword "arrays" and presses the "start" button
3) Program uses a PDF API to parse the document into a manageable format
4) Program searches for the keyword "arrays" inside the document
5) Program returns the pages that contain the keyword
6) Magical filter algorithm sorts the important paragraphs / sentences
7) The results are written in a new document output

Motivation

Our initial idea was to design a less complex program that takes in problem numbers for homework questions and outputs a document of the pages containing the questions.

Flipping through pages (or PDF files) to find the homework questions is a tedious and time consuming process. Hopefully, our program will be passed on to future generations of MCIT students who will run it to shave minutes of their precious homework time.

After consulting with Swap, we decided to be more ambitious and expand the program capability to create summarized study guides. The logic would be similar, except that our results would be processed by our magical filter algorithm.

Roles breakdown:

Na Luo	Design, interface
Yoonduk Kim	File I/O: Reading the PDF (API, etc.)
Leon Wee	Filter Algorithms