

Open Source Software Recommendation Engine

COSC 445/545 Final Project

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tl;dr;

- Tons of software out there.
- You already know some stuff.
- You need some new stuff.
- Analyze the software out there to find software that does what you need and will be easy to learn based on what you know.

Objective

- Create an index of open source software that allows for searching based on:
 - desired functionality
 - similarity to software a user is already familiar with

Motivation

- Overwhelmingly many open source software libraries, projects, frameworks.
- You already know several libraries, but you need some additional features with a minimal learning curve.

Tasks

- 1) Discover and collect some number of popular open source software projects. For example: top 1000 projects on Github
- 2) Parse the available documentation and examples to collect the necessary data.
- 3) Perform data analysis that will allow for:
 - a) quantifying the similarity of software
 - b) searching the software based on features
- 4) Create an interface to search and use the results

Timeline

- TBD

Members

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We will need good programmers, but arguably more importantly students who can determine and quantify “similarities” from written documentation.

Email Alex, aklibisz@utk.edu, if you’re interested in helping.