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Gordon-Larsen_COMP523-FA2021

Application Processing

Stage	Invite to Pitch
Program applying to	UNC Dept of Computer Science
Account Name	University of North Carolina at Chapel Hill
Founder's survey Prefill link	www.tfaforms.com/4600347?account=00141000005WvkV&campaign=&opp=0061M00001BZv4a

Opportunity

Opportunity Name	Gordon-Larsen_COMP523-FA2021	Opportunity Owner	COMP523 ProgramMgr
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Primary Contact

First name	Penny
Last name	Gordon-Larsen
Email	pglarsen@unc.edu
Professional Title	Associate Dean for Research

Project Idea

Reason for application	As the top public school of public health (2nd ranked overall), we need to showcase the research of our faculty to better tell our story and our impact to the state and the world. It is a challenge to tell that story efficiently and effectively. We desperately need a system for rapidly identifying Gillings expert researchers and science so that we can showcase our impact to our state legislators, prospective and current students, donors, other scientists, and external audiences. We are seeking an automated system for scientific database searches for a web-based tool that a wide audience can access and search for all of our publications and scientific research areas across our 230 faculty members and 1600 students by name, department, and research topic.
CS - Current Solution	<p>We are currently doing this using antiquated hand-searches of multiple databases that require lots of hands-on work and time intensive searches. We really need automated processes to rapidly process these big data to showcase our work.</p> <p>We mostly are using SCOPUS literature citation database (https://www.scopus.com/home.uri) for point in time analyses. However, we are in great need for developing an API query and results collection system to automate and turbocharge these searches, store the results on Gillings database infrastructure, and allow us to very quickly tap the latest publication information in the SCOPUS database for ongoing impact analyses. We would love tools for: data retrieval, storage, and analysis/visualization (if possible)</p>
CS - Who are users?	Faculty, current students, prospective students, journalists, legislators, researchers from across the world. Internally we would use the tool to identify collaborators, for students to identify mentors/advisors, and to identify experts for state legislators and anyone else around the world.
CS - Software Access Point	Web browser (desktop)
Other Access Point	
CS - Additional Constraints	<p>Likely interface w Scopus APIs – see Elsevier's API interface Specification documentation: https://dev.elsevier.com/api_docs.html</p> <p>Implementations have been developed by others using JavaScript and Python languages/platforms, but</p>

imagine other programming languages can work. We'd love to implement Natural Language Processing if possible.

CS - Concerns with student ownership?

No, I do not have concerns.

CS - Describe Concerns

CS - Protected health information?

No

Additional information

This tool would be incredibly adaptable - so could be used for a wide variety of similar efforts across campus and we would love to share such a tool with others (if acceptable to COMP 523 and Dr. Terrell)

Comments

Client Expectations

CS - How critical is software?

This software would be incredible for us, would increase our impact and our ability to tell our story. We currently do this by hand and could continue to do so, but it would vastly improve our school and the university and even the state.

CS - Available to pitch?

Yes

CS - Available to convey requirements?

Yes

CS - Available to answer questions?

Yes

CS - Reasonable expectations?

Yes

Consulting - Attend team meetings?

Yes

CS - Able to pay for infrastructure?

Yes

Client Group

Founder 2

Alexia Kelley

Founder2 First name

Alexia

Founder2 last name

Kelley

Founder2 email

alexia_kelley@unc.edu

Founder 3

Founder3 first name

Founder3 last name

Founder3 email

Founder 4

Founder4 first name

Founder4 last name

Founder4 email

Pitch Survey Information

CS - Pitch Availability I can't make either day.

Other Availability

CS - Recording of presentation <https://youtu.be/3MvakFrCieU>

Project Name Software for Research Impact

Description In a partnership between Gillings and the Health Sciences Library Informatics team, we propose a demonstration project for generating tools for showcasing UNC's research impact. We propose to begin with a model for Gillings that could be adapted for broader campus strategies.

For this demonstration project, we are seeking ways to show the impact of the research being conducted by Gillings School of Global Public Health researchers. We have a complex strategy in place with programming already developed and implemented using the SCOPUS literature citation database (<https://www.scopus.com/home.uri>). Our programming works excellently for point-in-time data analysis.

However, we are in great need for developing an API query and results collection system to automate and turbocharge these searches, store the results on Gillings database infrastructure, and allow us to very quickly tap the latest publication information in the SCOPUS database for ongoing impact analyses. The priority for this class project would be, in order:

1. Data retrieval (through API)
2. Data storage ('locally')
3. Data analysis/visualization

Application Details

Close Date 6/24/2021

Account Information

Educational Institution

Account Name University of North Carolina at Chapel Hill

Phone (919) 962-2211

Account Active Status Yes - Active

Fax

Website <http://www.unc.edu/>

Email

CRVF Investment

UNC DAVIE ID

CAN investment

Account Owner Shuford ProgramMgr

Contact

Address

Billing Address University of North Carolina at Chapel Hill
Pittsburgh, Pennsylvania 27599
United States

Shipping Address

Additional Information

Description MIC stands for Music Industry Connected and is a small start-up that is trying to identify the correct course of actions for indie artists to take to have sustainable careers in the music industry. Eventually they want to turn

into a music consulting firm for independent artists/

Comments

Parent Account

System Information

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