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Simon_COMP523

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=0061M00001BbGsD

Opportunity

Opportunity Name	Simon_COMP523	Opportunity Owner	COMP523 ProgramMgr
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Primary Contact

First name	Matthew
Last name	Simon
Email	mattsimon@unc.edu
Professional Title	Senior Data & GIS Analyst

Project Idea

Reason for application Many public health practitioners are still underfunded, understaffed, and lack the resources to collect high quality primary data. When combined with the proper training and support, well-designed software could help these officials overcome some of the following barriers to collecting their own data:

Lack of sampling expertise and analysis. Solution: automated statistical sample selection and data management online

Lack of statistical and mapping software. Solution: Open-source form design (Epi Info) paired with survey management platform (web + mobile) and dashboard

Lack of data collection software and hardware. Solution: mobile app deployable to tablets and smartphones

Using Collect SMART, the professionals will be able rapidly collect community-level data at a reduced cost. The high-quality data collected will then be used to help assess the community's needs.

CS - Current Solution Currently, there is beta version of the Collect SMART website and app. The website currently can access a survey project, but the app is unable to communicate with website to allow data transfer between platform.

NCIPH has tested Collect SMART in over 3500 interviews with nearly 500 person-days providing feedback to inform the iterative development in a 3-phase process from 2013-2016. Testing of this tool in five states has demonstrated that is an efficient and cost-effective solution for obtaining high quality, representative community health data.

CS - Who are users? Public health and human service practitioners would likely be the main audience. However, anyone looking to collect community level survey data would be a user.

CS - Software Access Point Web browser (desktop); Android app (phone or tablet)

Other Access Point

CS - Additional Constraints	None
CS - Concerns with student ownership?	No, I do not have concerns.
CS - Describe Concerns	
CS - Protected health information?	The type of data collected is user-dependent, although the data will have a geographic identifier and likely demographics. Future iterations could involve data protection.
Additional information	<p>The app is currently built on Epi Info, CDC's statistical software, to allow for the creation of questionnaires and certain data analysis. The current website builds upon the open source framework of Epi Info (https://github.com/Epi-Info) . The app will use the U.S. Census API to help determine the households in which the teams will survey.</p> <p>Current website: https://collectsmartdata.org/phase32/survey_intro.php maintained by Gillings School of Public Health ITS web developer Paul Glass-Steel</p> <p>App source code available and maintained by The Centers for Disease Control and Prevention's Epi Info group.</p> <p>User story</p> <p>Surveyor</p> <ol style="list-style-type: none"> 1. As a surveyor, I want to be able to gather survey responses accurately and efficiently. 2. As a surveyor conducting the survey, I want to be able to navigate to the households so that I can accurately collect data. 3. As a surveyor, I want to be able to fill out the survey within Collect SMART to collect data. 4. As a surveyor, I want to collect data offline and online. 5. As a surveyor, I want to be able to message teams and project leaders to be able to communicate any questions or concerns that come up. <p>Survey Manager</p> <ol style="list-style-type: none"> 1. As a survey manager, I want to be able to design a questionnaire with various data field types (number, free text, checkboxes, radiobuttons, drop-downs) and upload this questionnaire to surveyors using the app. 2. As a survey manager, I want to be able to pull a random sample based on U.S. Census data, specifying the county and sampling unit (U.S. Census block, blockgroup or Zip code (ZCTA)). 3. As the survey manager, I want to be able to see the surveys completed by team and sampling unit. 4. As a survey manager, I want to be able to track results, tabulating counts as well as calculating ratios. 5. As a survey manager, I want to be able to message teams to be able to communicate any questions, concerns, or safety conditions that come up 6. As a survey manager, I want to be able efficiently conduct the survey so that we can make data-driven decisions that benefit the community.
Comments	

Client Expectations

CS - How critical is software?	not critical. What we have currently can be patched up by CDC programmers to work with the website. It's just outdated and needs to be refreshed and likely re-built from the ground up.
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

Founder2 First name

Founder2 last name

Founder2 email

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 Both days work equally well for me.

Other Availability

CS - Recording of presentation

Project Name Collect SMART

Description Regional and state level data commonly exists but high-quality primary community level data is hard to find. Community level data is needed to unmask the disparities within a community. Reliable high-quality primary data is needed to help assess community needs. Validated community sampling methods are needed to collect accurate, high quality primary data that don't require extensive expertise in population sampling, geographic information systems and costly software and computer equipment. Many local health departments do not have the resources to collect this type of data and lack sampling expertise. Thus, Collect SMART would help aid health departments and other community-based organization in collecting high quality data at a low cost.

Collect SMART allows for the rapid collection of community-level data. It improves the timeliness of data collection while reducing the cost of purchasing mapping/data collection software and equipment. The beta version of the ap and website have been tested in 3500 interviews in five states. It has been proven to be an efficient and cost-effective solution for obtaining high quality, representative community health data. The software can be used by hospitals, local health departments, emergency managers or any other community-based organization to collect information about the status of their community. Collect SMART has two parts; the project management dashboard website and the mobile app

The web application uses U.S. Census api to determine the population in an area and implement a random sample with probability proportional to size. Once a sample is drawn, the application allows the project manager to push the sample out to the app, directing survey teams to the appropriate address to conduct an interview. The web application then allows a project manager to monitor the progress of surveyors and analyze incoming data from the field. The project dashboards allows the manager to see the number of surveys completed by each team and by sampling unit. A separate desktop application can be used to design the questionnaire and export an .xml file which can be uploaded through the web application and pushed out to the app.

The mobile app was built on the open-source framework of Epi Info, a free statistical software/platform

developed by the CDC. The mobile app adds a mapping module which allows the project manager to upload spatial data, such as census blocks or predetermined survey locations. The mobile app takes questionnaires built in the desktop version of Epi Info, allows users to navigate to the survey locations and collect responses. It is compatible with Android tablets and phones. With electronic devices data can be collected easily and with fewer errors. To ensure data security, a cloud-based database is used for survey responses. Along with the features of collecting data, the app will be able to communicate with other teams in the field and the project manager.

Application Details

Close Date 7/23/2021

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	
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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

Created By	Cindy Reifsnider, 9/30/2016 3:58 PM	Last Modified By	Forms User API, 8/18/2021 10:55 PM
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Notes & Attachments

[Collect SMARTPresentation](#)

[SimonAdditionalMaterials](#)

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