

School of Informatics, Computing, and Cyber Systems

2021-2022



Motivations

Research on software engineering is a vital part of improving software architecture and engineering tools. Conducting effective research will provide developers highly valuable insights to enhance the quality of software products that many modern industries use today.



Current survey-based research process

Our clients have had consistent problems with recruiting valid participants for their research studies. They have tried existing web platforms, but found that they lack the ability to filter participants based on their software-specific qualifications.

Solution Overview

GeekSurvey is a web platform that is designed to facilitate software engineering research. Users can conduct research by filtering for qualified participants. Users can also discover and participate in studies in exchange for monetary compensation. This ultimately results in improvements to our clients' current business process.



A Web Platform for Software GeekSurvey: Engineering Research

Tim Giroux, Kyle Austria, Gustavo Valencia, and Pengfei Liu **Clients:** Dr. Marco Gerosa and Dr. Igor Steinmacher

	Key Features				Key Features			
GeekSurvey		Ho						
Customize your profile	Create research studies	P						
Customize your profile Provide information about you and your skills! The more you customize your profile, the more studies you will be eligible for.	Create research studies Find quality participants by filling out our research study form with desired traits and inserting your external survey platform link.	P M th yo						

- Accounts include both Researcher and Participant views
- Accounts support GitHub profile integration
- Studies support linking to external survey platforms and tracking
- Platform contains administrator panel and accounts for modifying all studies and profiles on the site
- Platform supports a payment processing system to handle research funding and participant claims

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This study aims to gather data on	Compensation (USD)*	(USD)* Participants				
what strategies are preferable when supporting open source	\$ 10.00	50	https://forms.gle/S9oE5Ygg6UTPCUuL8			
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nat interest you! Receive compensation for our valuable time and responses

tart participating





More Information

GeekSurvey is a Computer Science capstone project. It was developed by the SuperGeeks team, who was mentored by Felicity Escarzaga.



For more information, please follow the QR code to the project website.

Future Work

GeekSurvey is a fully featured web application deployed as a live development website. It includes many different web pages for managing profiles, studies, account funds, and more. The domain name and live server have been transferred to the clients for future work.

In the future, GeekSurvey could be refactored into a REST API, with the frontend being rewritten as a React. is application. It could be generalized to support more types of research. This would position GeekSurvey to be instanced by universities and non-profit organizations for their unique needs.

Currently, GeekSurvey uses a Paypal Sandbox for payments. It could be updated to use real payments after a security audit and improved business and legal compliance.

