

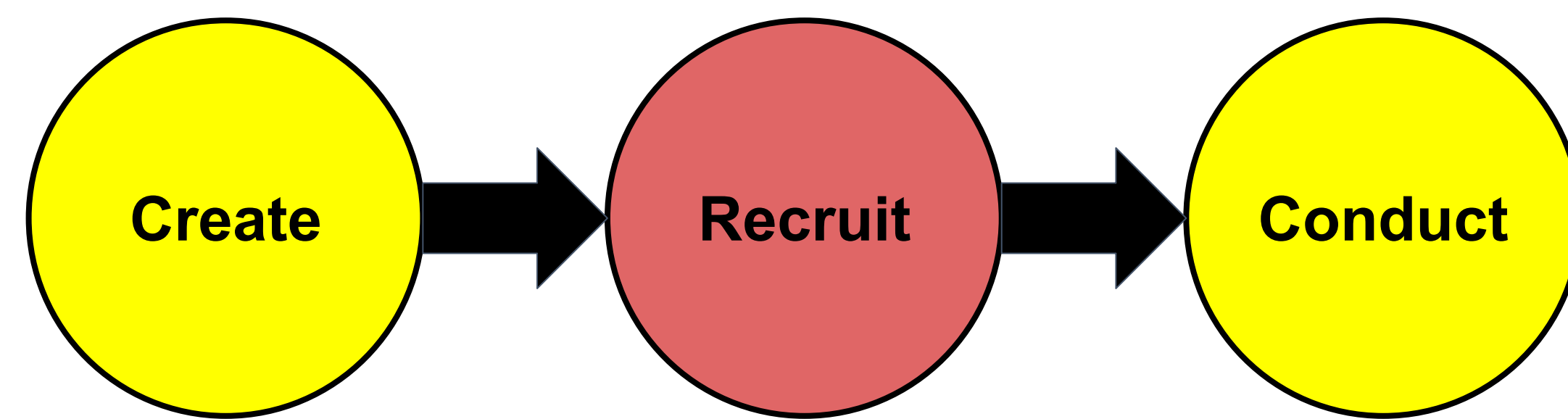
GeekSurvey: A Web Platform for Software Engineering Research

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Clients: Dr. Marco Gerosa and Dr. Igor Steinmacher



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.

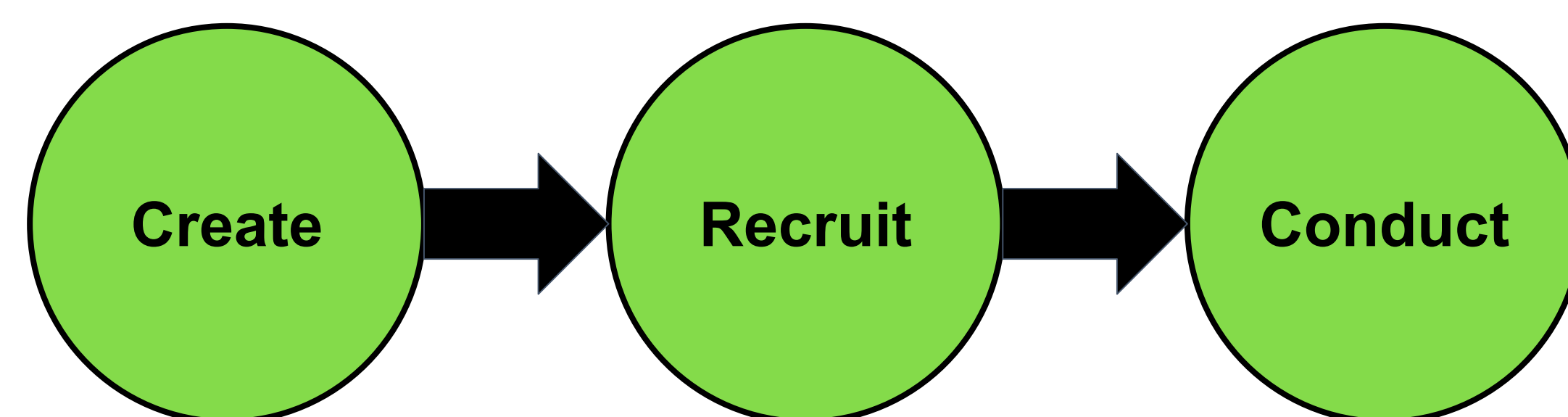


Current survey-based research process

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.

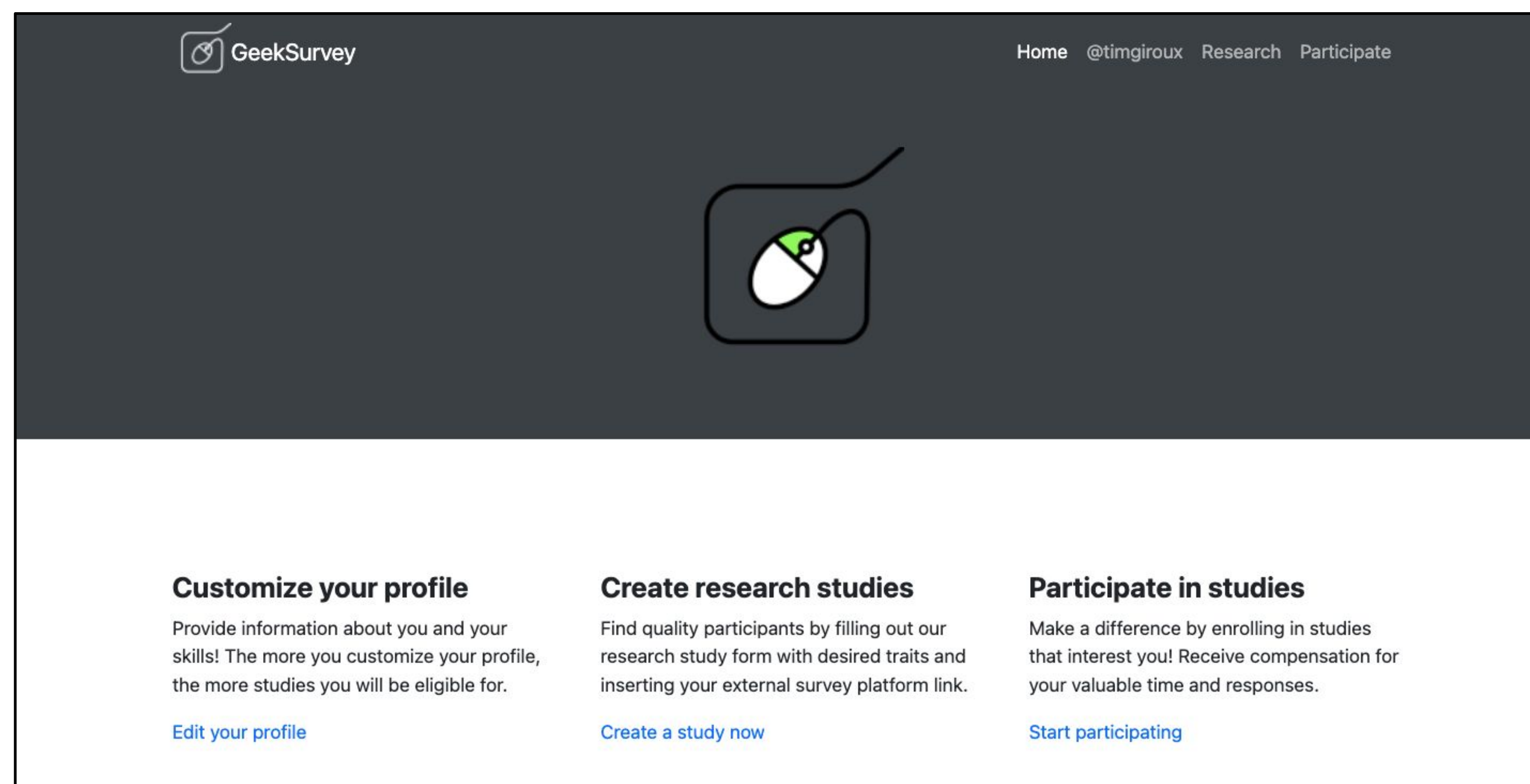
Solution Overview

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.



Improved survey-based research process

Key Features



- 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

Technologies



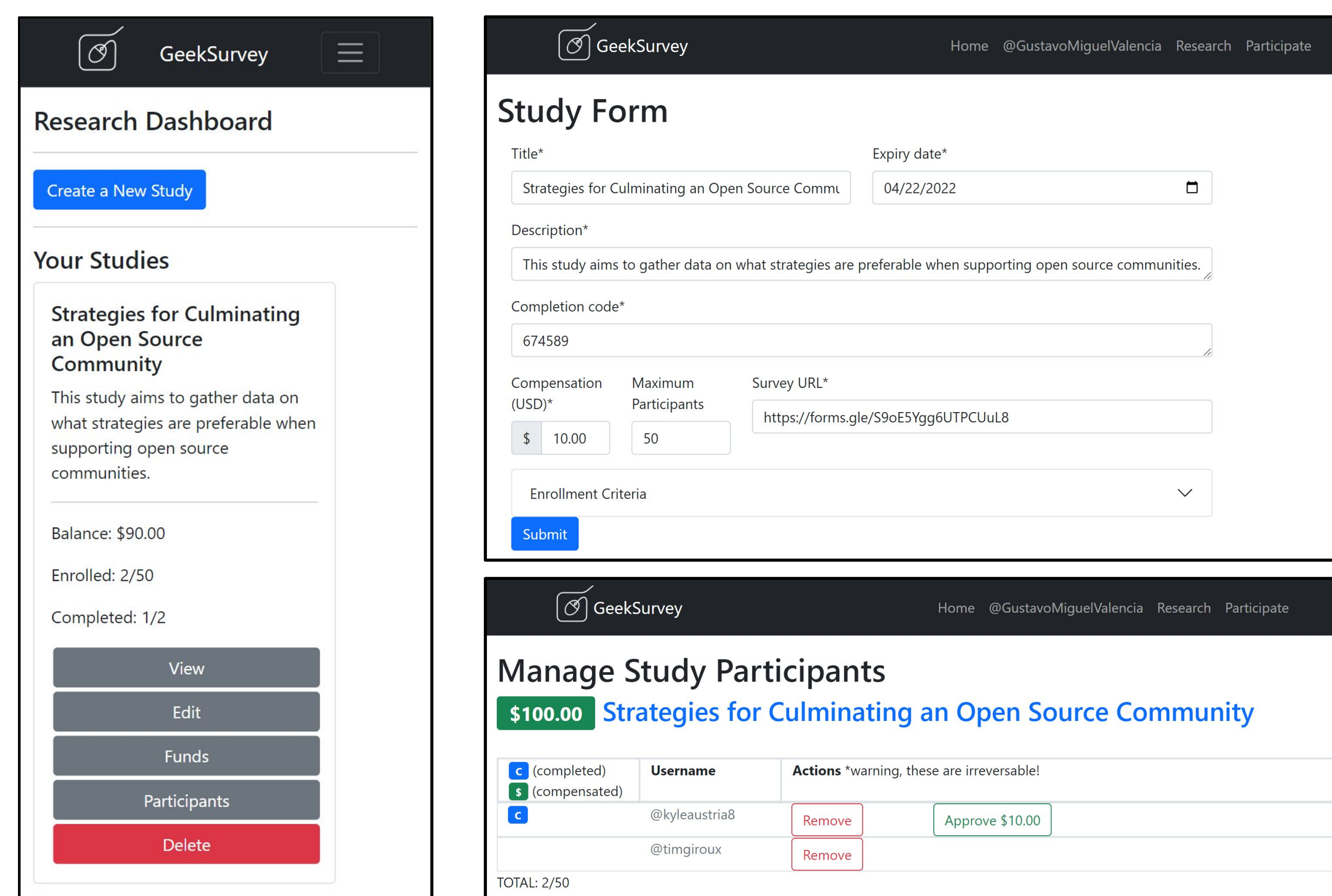
More Information

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.

Results and 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.js application. It could be generalized to support more types of research. This would position GeekSurvey to be instantiated 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.