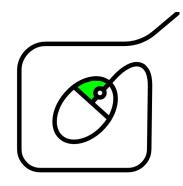
GeekSurvey

UGRADS



SuperGeeks

Tim Giroux, Kyle Austria, Pengfei Liu, Gustavo Valencia

1. Introduction

- Mentor: Felicity Escarzaga
- Clients:

Dr. Marco Gerosa



Dr. Igor Steinmacher



2.1 What's the Problem?

Large and complex business

Research is essential to success

Insights are valuable to modern industries

Gathering data requires participants



2.2 Problem Statement

- Difficulty with recruitment
- Current methods do not work

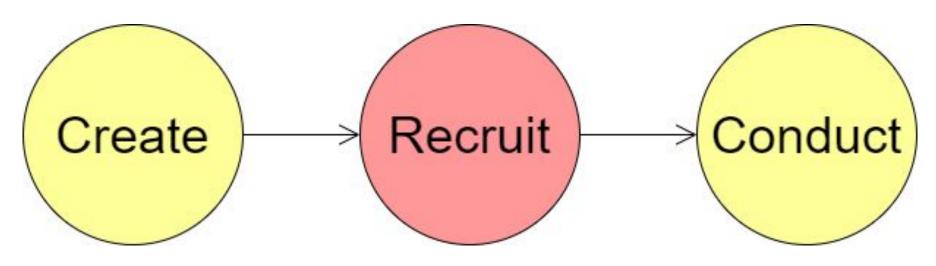


Figure 1: Client's current business process

2.3 Problem Statement

Do not satisfy recruitment requirements

Amazon Mechanical Turk and Prolific.co are limited





3. Solution Overview

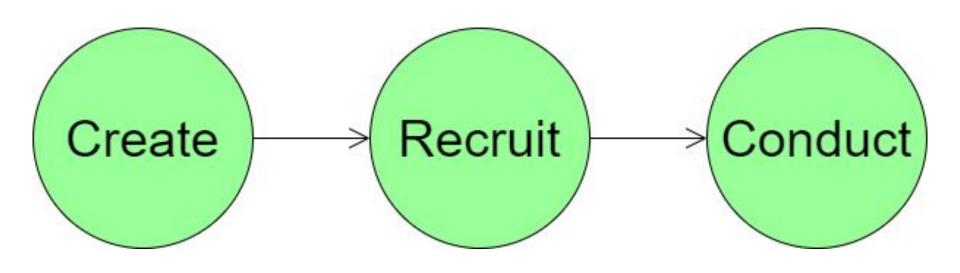
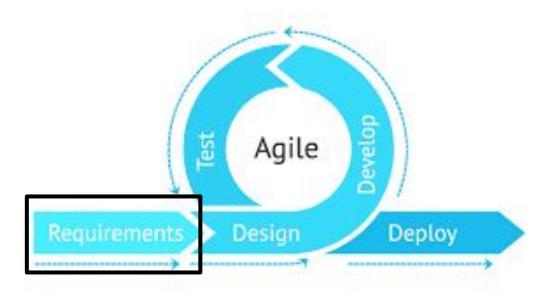


Figure 2: Improved business process

4.1 Requirements Acquisition

- Project Proposal Document
- Regular E-Mail Communication
- Virtual Meetings at least Bi-Weekly



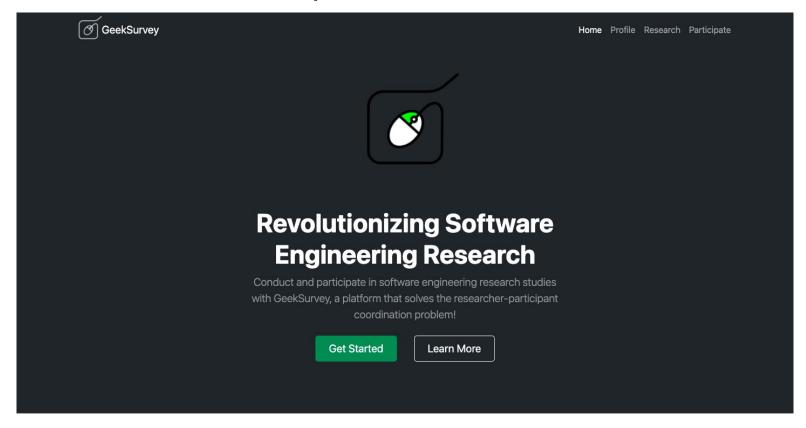
4.2 Requirements

Key Features:

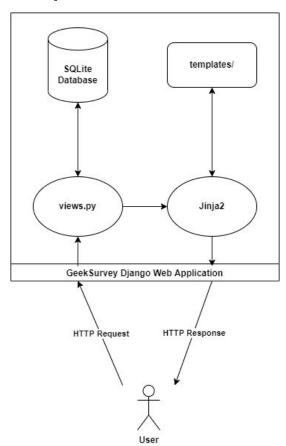
- Researcher View
- Participant View
- Linking to external survey platforms and tracking
- GitHub Profile integration
- Admin Panel
- Researcher/Participant Payments



5.1 Architecture and Implementation Review

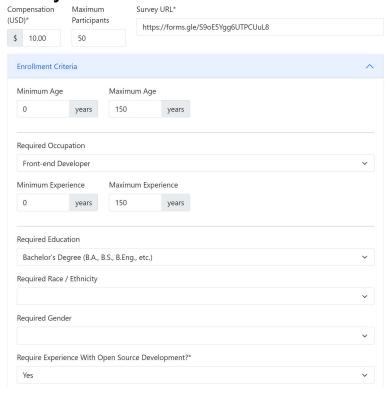


5.2 Architecture and Implementation Review

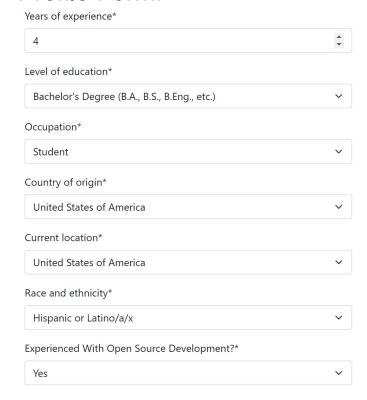


5.3 Architecture and Implementation Review

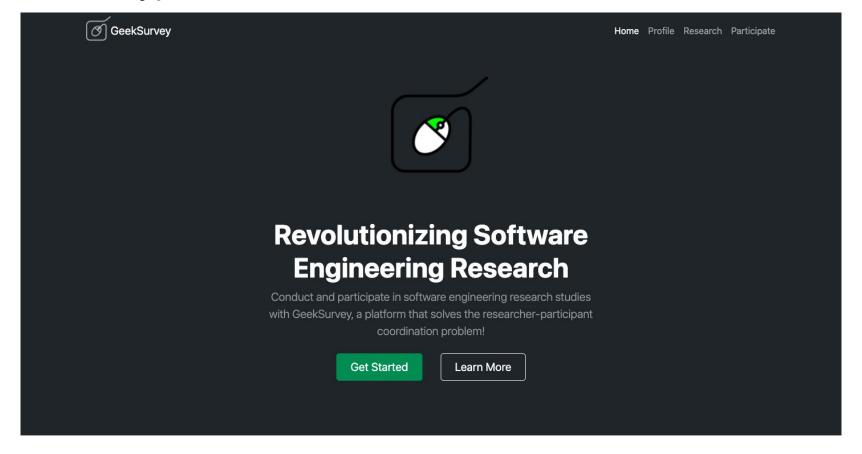
Study Form:



Profile Form:



6.1 Prototype Review



6.2 Prototype Review

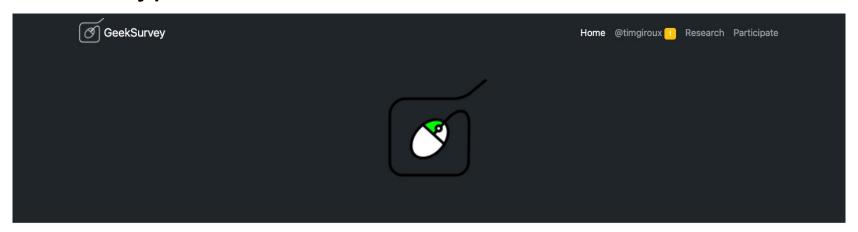


Sign In

Please sign in with one of your existing third party accounts. Or, sign up for a example.com account and sign in below:

GitHub	Google		
or			
Username: Username			
Password: Password			
Remember Me:			
Forgot Password? Sign In			

6.3 Prototype Review



Customize your profile

Provide information about you and your skills! The more you customize your profile, the more studies you will be eligible for.

Edit your profile

Create research studies

Find quality participants by filling out our research study form with desired traits and inserting your external survey platform link.

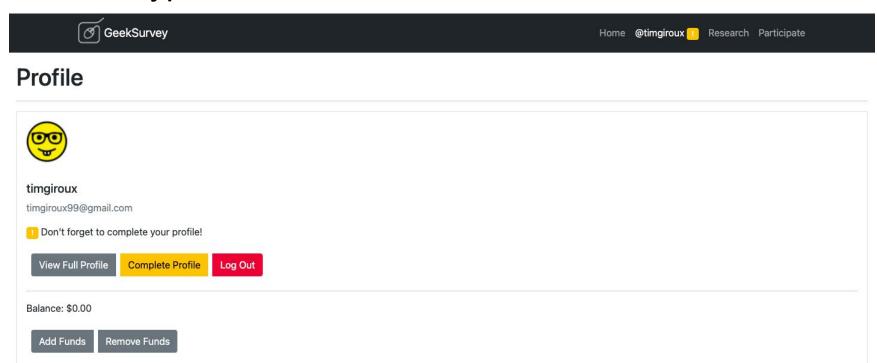
Create a study now

Participate in studies

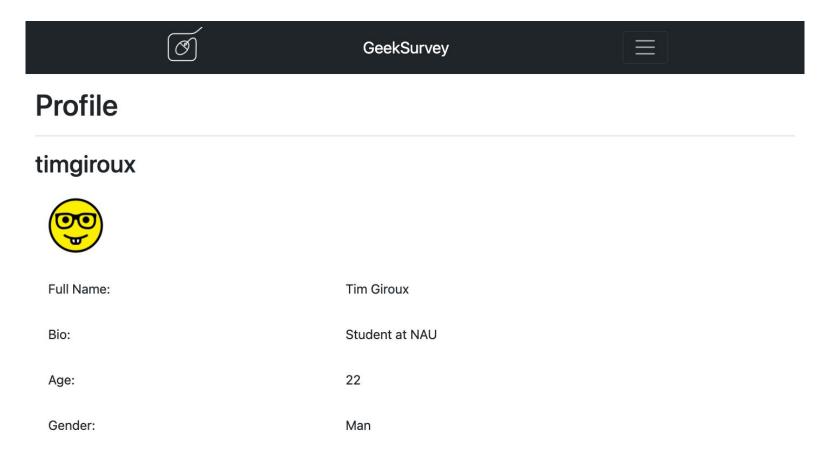
Make a difference by enrolling in studies that interest you! Receive compensation for your valuable time and responses.

Start participating

6.4 Prototype Review



6.5 Prototype Review



6.6 Prototype Review

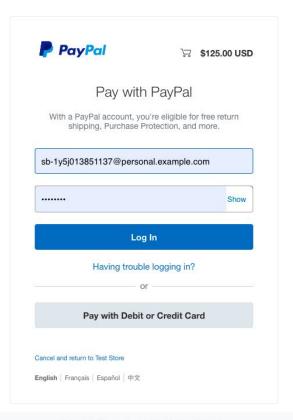


Fund Profile

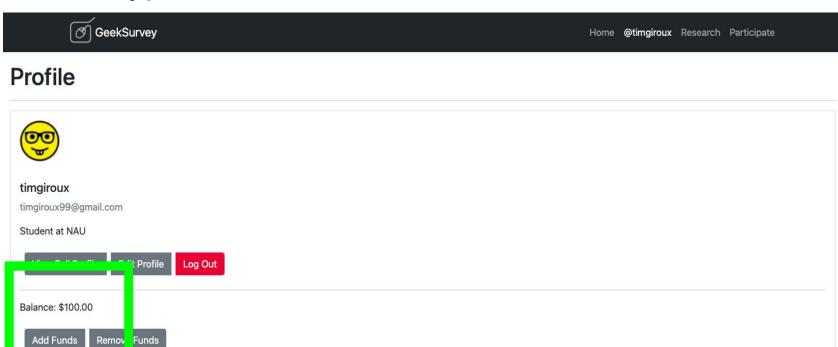
Pay \$125 to add \$100 to your account



6.7 Prototype Review



6.8 Prototype Review



6.9 Prototype Review

Look's like there's nothing here!



6.10 Prototype Review



Study Form

Title*			Expiry date*	
Fruit Study			04/25/2022	
Desc	ription*			
Wh	at is your fa	vorite fruit?		
Com	pletion code	e*		
bar	nanaphone			
		Maximum	Survey URL*	
(USD))*	Participants	https://forms.gle/8W7kfuCrbBAcGz8WA	
\$	2.50	51		

6.11 Prototype Review

Home @timgiroux Research Participate

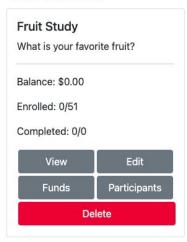


Research Dashboard

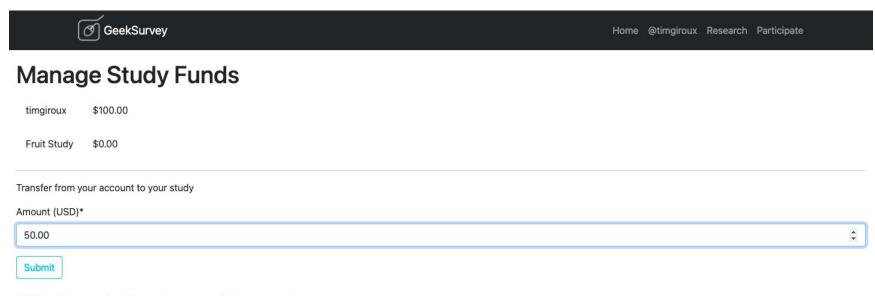
(Ø) GeekSurvey

Create a New Study

Your Studies



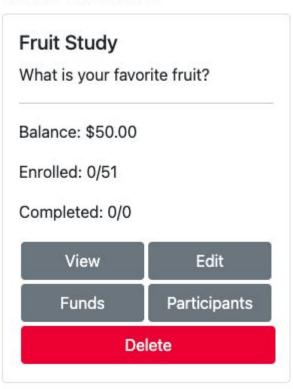
6.12 Prototype Review



TIP: Negative amounts will move from your study to your account.

6.13 Prototype Review

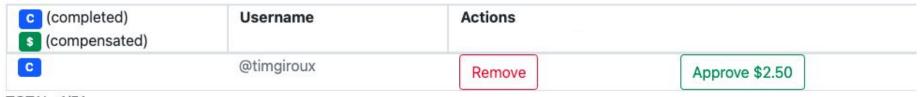
Your Studies



6.14 Prototype Review

Manage Study Participants

\$50.00 Fruit Study

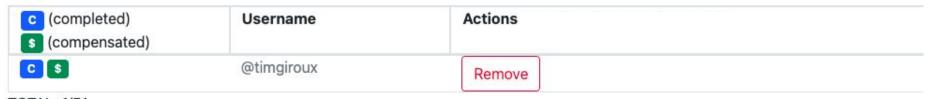


TOTAL: 1/51

6.15 Prototype Review

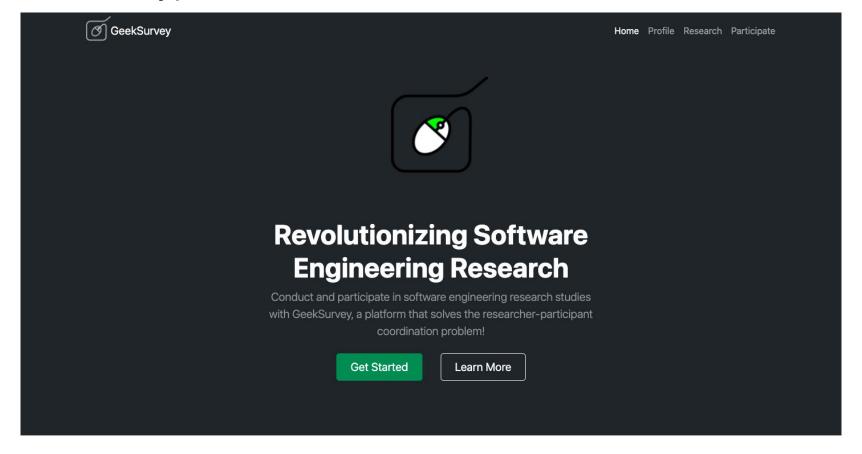
Manage Study Participants

\$47.5 Fruit Study

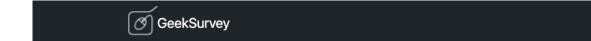


TOTAL: 1/51

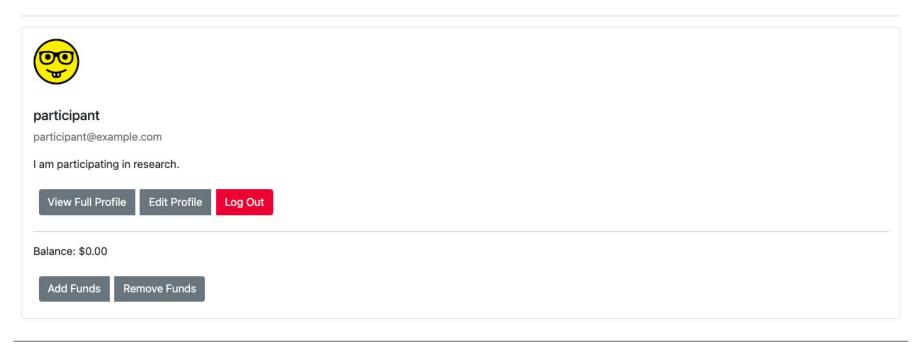
6.16 Prototype Review



6.17 Prototype Review

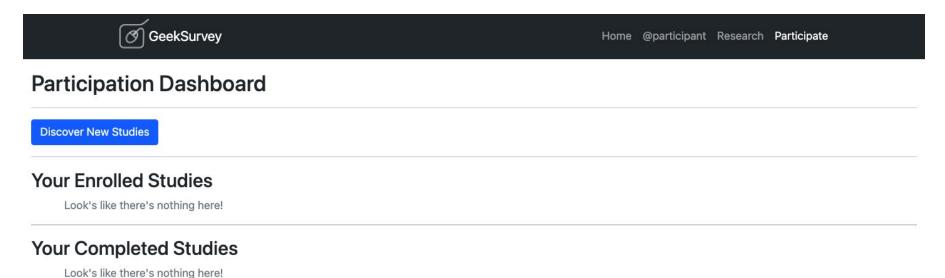


Profile



Home @participant Research Participate

6.18 Prototype Review



6.19 Prototype Review



Home @participant Research Participate

Study Discovery



6.20 Prototype Review



Home @participant Research Participate

Fruit Study



What is your favorite fruit?

Created By: @timgiroux

Enroll

6.21 Prototype Review



Home @participant Research Participate

Fruit Study



What is your favorite fruit?

Created By: @timgiroux

You've enrolled in this study, but you still need to complete it.

Complete this study

6.22 Prototype Review



Home @participant Research Participate

Fruit Study

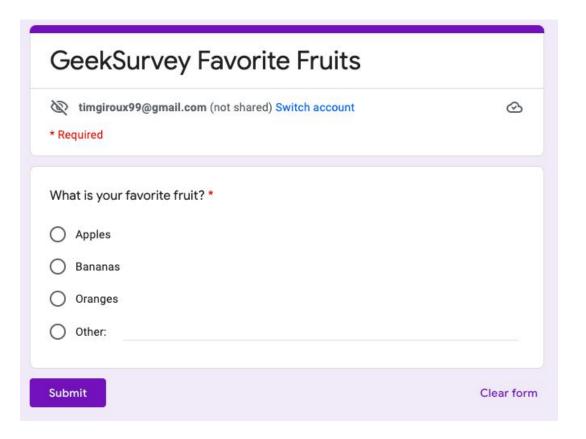
Completion Page

Please complete the external survey and then enter the completion code here

Completion code*

Submit

6.23 Prototype Review



6.24 Prototype Review

GeekSurvey Favorite Fruits

Please complete the study on GeekSurvey with the following code: bananaphone

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Google Forms

6.25 Prototype Review



Fruit Study

Completion Page

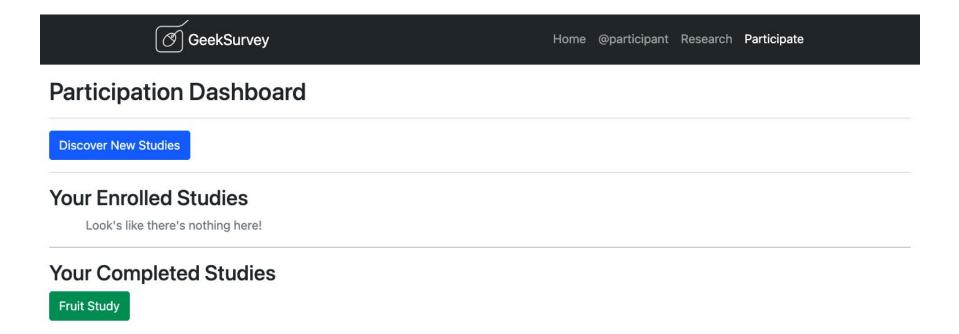
Please complete the external survey and then enter the completion code here

Completion code*

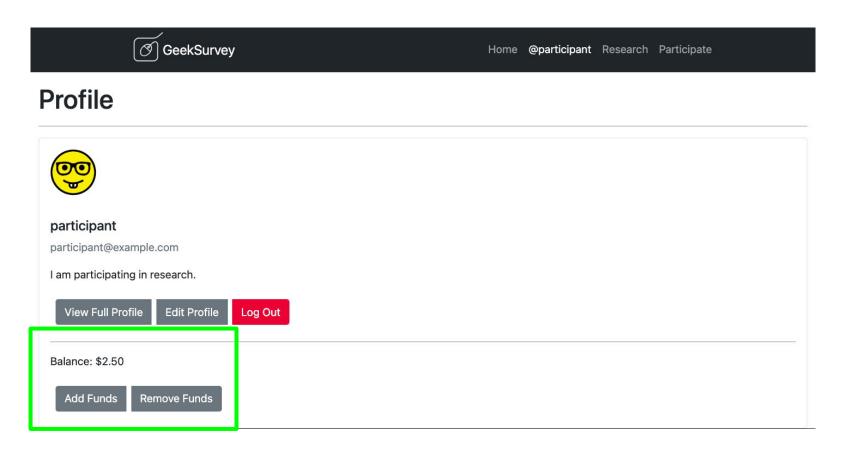
bananaphone

Submit

6.26 Prototype Review



6.27 Prototype Review



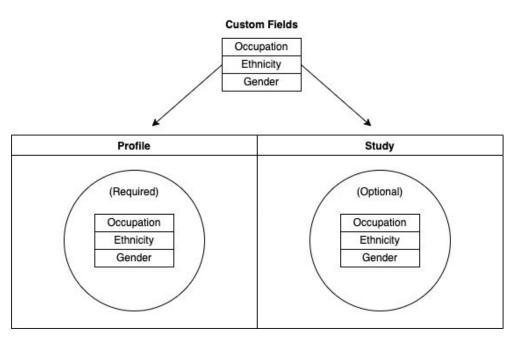
6.28 Prototype Review



7.1 Challenges and Resolutions

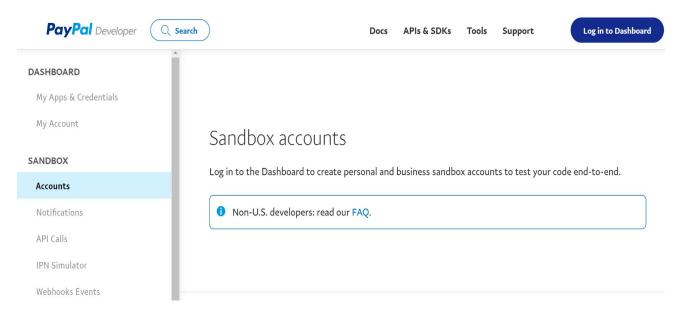
Enrollment Criteria

- Needs to match fields in the profile
- Needs to be customizable



7.2 Challenges and Resolutions

- Payments
 - Legal and business issues with deployment



8.1 Schedule

Legend	
Done	
TODO	
Due	
Winter Break	
Spring Break	
Now Line (NL)	
Class Deliverables	Red Text and Italicized and Bolded

8.2 Schedule



8.3 Schedule - Stretch Goals

9. Stretch Goals

- 9.1 Change profile age to a birthdate as a proper date field.
- 9.2 Customizable expiration date to studies (MOVED TO SPRINT 8: CRUNCH)
- 9.3 Bootstrap for better UX
 - 9.3.1 Custom elements and color schemes
- 9.4 More enrollment criteria per client request
- 9.4.1 Criteria for countries (origin and current location)
- 9.5 Improve initial log-in flow for github auth + email verification
- 9.6 Disable social account auth if API info not defined in .env
- 9.7 Reorganize code into apps? Researcher code in researchers/ etc.
- 9.7.1 Study app
- 9.7.2 Payments app
- 9.7.3 Research app
- 9.7.4 Participate app
- 9.7.5 Profile app
- 9.8 Check if user is authenticated through GitHub
- 9.9 Display GitHub avatar if user is authenticated through GitHub
- 9.10 Add GitHub enrollment criteria
- 9.10.1 Add GitHub account age
- 9.11 Move study_email_helper to a custom signal that fires upon study creation
- 9.12 I can't see other email recipients in the group email for study notifications
 - NOTE: Currently all email recipients are in the "to" field. Consider sending individual emails instead of a batch email
- 9.13 Email notifications are parallelized
 - NOTE: Currently this blocks an http response upon study creation
- 9.14 Claims are parallelized
 - NOTE: Currently this blocks on two different API calls to PayPal
- 9.15 Fix the warning about naive datetime upon study creation

9. Testing Plan and Results

Unit Tests

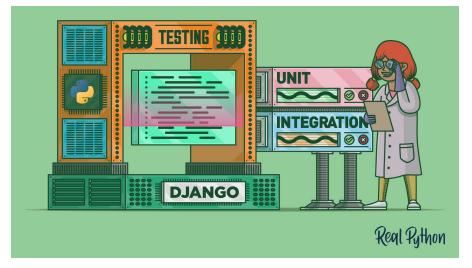
- The unittest standard Python library and the django.test.TestCase subclasses
- can_enroll()

Integration Tests

Manually verify Google Forms and PayPal integration

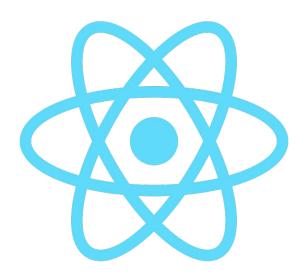
Usability Tests

- Provide feedback on UI and workflows
- Overall positive feedback and suggestions made so far



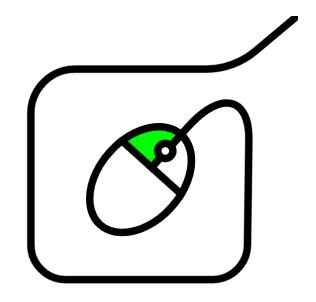
10. Future Work

- Real payments
- Decoupling backend and frontend using ReactJS and a REST API
- Support more research types



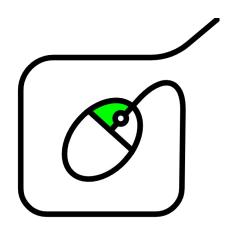
11. Conclusion

- Solving Research Coordination
- Competitors prove demand
- GeekSurvey is **open source**



Thank You!





For more information, follow the QR code to our team website