CS Capstone Design

Final Project Demo Grading Sheet (50 pts)

TEAM: <u>SuperGeeks</u>

Overview: The main purpose of the "Technical Demos" is to very clearly explore the extent to which the team has implemented the key functional and performance requirements for their project. Grading is based on two factors:

- **Completeness:** Have all of the key requirements been implemented. To what extent does the product have all of the functionalities and performance that was promised.

- **Quality:** Just having basic functionality is the bare minimum. What is the quality of the implementation? Is the resulting product aesthetically pleasing, easy to use, and a pleasure to work with; to what extent is it "ready for market"?

This template is fleshed out by the team, **reviewed and approved by CS mentor beforehand,** and then brought to demo in hardcopy for the mentor to use as a grading sheet.

Requirements Review

Based on our requirements acquisition work and evolution during implementation, the following are the key technical requirements driving of our product:

R1: User Accounts

GeekSurvey will have generic user accounts. This includes shared functionality between the two account views: Researchers and Participants. Users can create accounts by signing up with email or signing in with social accounts like GitHub or Google. GeekSurvey will also support administrator accounts that can manipulate all studies and user profiles on the platform.

<u>Specific implemented functionalities that satisfy this requirement:</u>

- Sign Up

- Sign-in with External Accounts (GitHub, Google)

- Administrator Panel

R2: Profiles with Enrollment Criteria

Accounts will be associated with a customizable profile. GeekSurvey must include a user-friendly interface for creating and customizing these accounts. The fields in the profile will be used for study filtering.

<u>Specific implemented functionalities that satisfy this requirement:</u>

- Edit Profile

- Profile Contains Fields Relevant to Software Engineering research

R3: Study Creation with Necessary Criteria for Participation

Studies are the primary means of cooperation between researchers and participants on the platform. A study in GeekSurvey is a bundle of data containing everything necessary to conduct a minimum viable research study.

Specific implemented functionalities that satisfy this requirement:

- Create Study

- Define Enrollment Criteria

- Set Required Criteria

- Set Optional Criteria

- Study Landing Page

R4: Study Enrollment and Completion for Eligible Accounts

Participants must be able to use a user interface to enroll in a study. Once enrolled, they will be added to a list of enrolled participants to the study. After enrolling, a user will be able to access the study survey link. Upon completing the survey, they will return back to GeekSurvey and their participation will be recorded in the GeekSurvey backend.

Specific implemented functionalities that satisfy this requirement:

- Enroll

- View Study

- Take Survey

- Display Completion Code After Survey Submission

- Complete Study By Providing Code

R5: A Payment System to Create Incentives for Participants to Use the Platform

GeekSurvey will include a payment system to create incentives for participants to use the platform. The payment system will be developed in a sandbox environment using fake external payment accounts.

Specific implemented functionalities that satisfy this requirement:

- Add Funds to GeekSurvey Account using PayPal

- Move Funds from GeekSurvey Account to Study

- Approve Participants for Compensation

- Transfer Funds from GeekSurvey Account to PayPal Account

Demonstration Sequences:

This section outlines the demonstration sequences prepared to prove the above functionalities. Each sequence is a coherent walk-through of some piece/area of the product, designed to highlight implementation of specific requirements/functionalities outlined in the last section.

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Demonstration Sequence 1: Research

Requirements demonstrated: R1, R2, R3, R5

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Sign in / Sign up
2. Complete Profile
3. Purchase account funds
4. Show that the funds have been added to the profile
5. Create a Study called "Favorite Fruits"
6. Define completion code as "bananaphone"
7. Define Survey URL as https://forms.gle/8W7kfuCrbBAcGz8WA
8. Define compensation as $20.00 for the study
9. Add funds to the "Favorite Fruits" study

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

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Demonstration Sequence 2: Participate

Requirements demonstrated: R4, R5

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Discover the "Favorite Fruits" study using the Participation Dashboard
2. Enroll in Study "Favorite Fruits"
3. Show that the study is enrolled in the Participation Dashboard
4. Complete Study "Favorite Fruits"
5. Show that the study is completed in the Participation Dashboard
6. Approve compensation from the Research Dashboard
7. Show that $20.00 was moved to the profile
8. Claim $20.00 to paypal account

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

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Demonstration Sequence 3: Demonstrate Enrollment Criteria

Requirements demonstrated: R4

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Create a study called "Mango" that doesn't require open source experience
2. Create a study called "Kiwi" that requires open source experience
3. Edit the profile to **not have** open source experience
4. Visit the study discovery page
5. Note that only "Mango" is viewable on the Participation Dashboard
6. Edit the profile to **have** open source experience
7. Visit the study discovery page again
8. Note that both studies are viewable

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

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Demonstration Sequence 4: Administrator Panel

Requirements demonstrated: R1

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Manually navigate to geeksurvey.xyz/admin in the browser

2. Sign in to admin account

3. Show the Profile that was created in the demo

4. Show the Studies from the demo

5. Show that database objects can be edited and deleted from the admin panel

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

Other challenges recognized by not addressed by demo:
If there were requirements that you listed earlier that were *not* covered by a demo, list here. This will hopefully be a short list…but better to be clear about what is done and not. If there are items here, one could provide an explanation of why they weren't done.

All requirements were addressed by the demo. Thus, there are no additional challenges to recognize.