Deliverable 1
Concept Description (Web App)
- The platform connects patients to clinical trials conducted at UCLA.
  - The platform does not intend to target a specific group of patients. Dr. Lien stated that we could focus on a specific disease if we want to, but that may complicate the process.
  - The platform will perform its pilot study at UCLA but would eventually integrate with all major IRBs. Although IRBs have been traditionally seen as only regulatory bodies, they could play a role in research subject recruitment.
- Main Features of the App
  - We intend to finalize our pitch with Dr. Lien next week and present to the stakeholders, which includes the UCLA IRB and clinical informatics.
    - Dr. Lien stated that a possible reason the other platforms have not been as successful in the implementation process is that they do not work directly with the IRB.
    - Our pitch aims to persuade the IRB to consider our platform. We propose a new section on the IRB approval form that asks if the clinical investigator would like to post their studies on our platform. The new section would also include space for the clinical investigator to write a description of their trials in layman's terms. The information from this section would be posted on our platform. This method would ensure that all clinical studies that enroll or renew would have the opportunity to post on our platform.
    - After we present to the stakeholders, we would speak with the clinical informatics and discuss what database is currently in use for patient recruitment at UCLA.
  - The participants would register and search for clinical trials using keywords.
    - To keep our initial prototype simple, the participants do not have the option of connecting their EHR (electronic health records) or PHR (personal health records) to the platform.
  - The platform contains a built-in chat service for the patient to contact the clinical trial coordinators directly if a match occurs. The patients would also provide their name and contact information for the clinical trial coordinators to contact them.
- Secondary Features
  - The web platform also provides information about the nature of clinical trials in layman's terms. Our research has shown that ¼ of the population do not understand clinical trials. Thus, we aim to educate as well as connect participants to clinical trials.
  - The web platform also provides a section where participants can anonymously ask questions, similar to other Q&A websites like Quora. People who answer these questions would be experts. We believe that this feature would assuage some of the fears that may surround clinical trials.
  - Once the participants sign up and enroll in a clinical trial, the platform also provides a news feed similar to Facebook's. The clinical investigator can post updates regarding the status of the clinical trial to all of the patients enrolled in the clinical trial via our platform. We believe that this feature enhances patient engagement.
  - The platform also allows research subjects to refer others to clinical trials.

How do people interested in searching for clinical trials use the platform?

1. Users can sign up on our website.
2. Users search for clinical trials using keywords and specific criteria including age, gender, etc. As indicated in our budget proposal, True Vault would be used to ensure that information is HIPAA compliant.
3. Search results indicate the clinical trials that match the user and a short description of the clinical trial.
4. Users can choose to message the clinical trials coordinators if the users have found a match. They can choose to provide name, email, and phone number.
5. After the users chooses to message the clinical investigator, the only information that the clinical investigator receives at this point in the process should be name, email, and phone number. Security and privacy checks are maintained at all times to ensure that the process is HIPAA compliant.
6. The clinical studies coordinators would then perform an initial phone screening and eventually meet in person if the research subject is a good fit.

How do clinical investigators use the platform?

1. We intend to pitch our platform to the IRB. We would ask the IRB to consider adding a new section on the IRB approval form that clinical investigators can use to indicate if they would like to post their studies on our website.
   a. If UCLA IRB does not agree, we would contact Quorum IRB in Seattle.
2. If the clinical investigators have indicated on the IRB approval form that they would like to post on our platform, they can make a new account on our website and information from their IRB approval form would automatically update on our platform.
3. Once the posting is live on our platform, the clinical trail coordinators receives emails or phone calls from people interested in learning more about their clinical trials.
4. The clinical investigator can proceed to make appointments with the people interested in their trials.

Note: The purpose of our platform is to solely match patients to clinical trial studies and engage the participants. The staff of the clinical trials is responsible for obtaining informed consent and contacting the research participants. Our platform does not do so on behalf of the clinical investigators.

Budget Proposal

- True Vault: 45 days free for 1GB storage and afterwards $149 per month for 15 GB storage
  - www.truevault.com
  - True Vault is a service that ensures our application meet HIPAA Security Rule when handling personal health information.
  - The amount of data storage required would depend on how many users sign up. If more users sign up than anticipated, other options from true vault exist:
    - $399 per month for 45 GB storage
    - $799 per month for 100 GB storage
- Square space or Semplice: $80
  - www.squarespace.com
  - www.semplicelabs.com
  - Square space provides website templates. We intend to use square space to build an interface that is simple to use.
- Domain name + hosting: $50
  - www.godaddy.com
- Web developer - $50/hour for 15 hours
  - Anthony and professional web developers will implement the technical features of the web app.
    - The web app has a function that matches the user's keywords to clinical trials.
    - The web app has a function that draws information from the IRB approval form.
    - The web app has a chat service.
    - The web app can create and store user profiles.
    - The web app has a news feed that allows clinical investigators to update the enrolled patients on the status of the trials.