

## Project Description

Our project will track the number of sexual partners you have and when these encounters happen, in service of making tracking the source of an STI simpler. Other speculative features include delivering quarterly testing notifications, letting users look up their symptoms (Infermedia API) and a system to anonymously inform previous partners of a positive STI test result. We could also include private, meaningful ratings on habits, like on whether some person practices safe sex, communicates well, or some metric to track sexual violence.

## Product Requirements

- Goal: make it easier to track and communicate about STIs and other preferences with sexual partners.
- Non-goal: for our project is to replace communication and coordination between partners entirely.
- Non-functional requirement 1: must make sure that the information stored about a given individual's sexual history is secure and private.
  - Functional requirements:
    - Some kind of two-factor authentication for log-in
    - End-to-end encryption between their device and our database.
- Non-functional requirement 2: interactions within the app are convenient/efficient to work with in a real-world setting, should not last longer than a minute.
  - Functional requirements:
    - Some kind of QR code/NFC/Bluetooth communication
    - Quick yet informative interaction interface; similar to that of a game's lobby screen.

## Product Management

- Theme: Have the user(s) collaboratively and quickly use the app for STI prevention and communication
- Epic: Mobile app
- User Story 1: As a new user, I want to make sure none of my data is leaked and invisible to any other party I've interacted with, and maintain anonymity.
  - Task: Make personal and interaction data secure
    - Ticket 1: Safely store personal and interaction data within our database via encryption. This involves researching and implementing encryption techniques for an SQL or MongoDB database.

- Ticket 2: Implement some non-identifiable personal profile for the app that allows for mutual anonymity, but allowing us to personally contact each individual.
- User Story 2: As a repeat user, I want to make sure that each interaction I have is quick, yet maintaining safety.
  - Task: Create some pre-emptive verification and background check system prior to interactions
    - Ticket 1 Store some rating or some metric on the other person's safety, communication, hospitality, etc. This can be as simple as mirroring Uber ratings.
    - Ticket 2: Maintain some network of 'bodies' to reach out to within our database in the case of some STI or sexual violence case. This may involve implementing APIs that can contact authorities/resources or contacting the individual if we think they contracted something.