

# **Design Document for VaxDiscussions**

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Date: February 18, 2021

Status: Design Phase

## **Concept Summary**

- The goal of this project is to provide a place to store their immunization information for easy access and to provide a social platform for individuals to engage in discussion topics. The digital immunization card will enable the user to enter vaccine updates for their families and get notifications. Discussion topics, ranging from childhood vaccines to the Covid-19 vaccine, will let users interact with each other by allowing them to comment, reply, and like other user's posts.

## **Audience/Customer**

- The targeted audience is towards anyone who gets vaccines and would like to get notifications for it.
- The audience is also anyone interested in getting more information about vaccines.
- The initial audience will be the students on CS401.

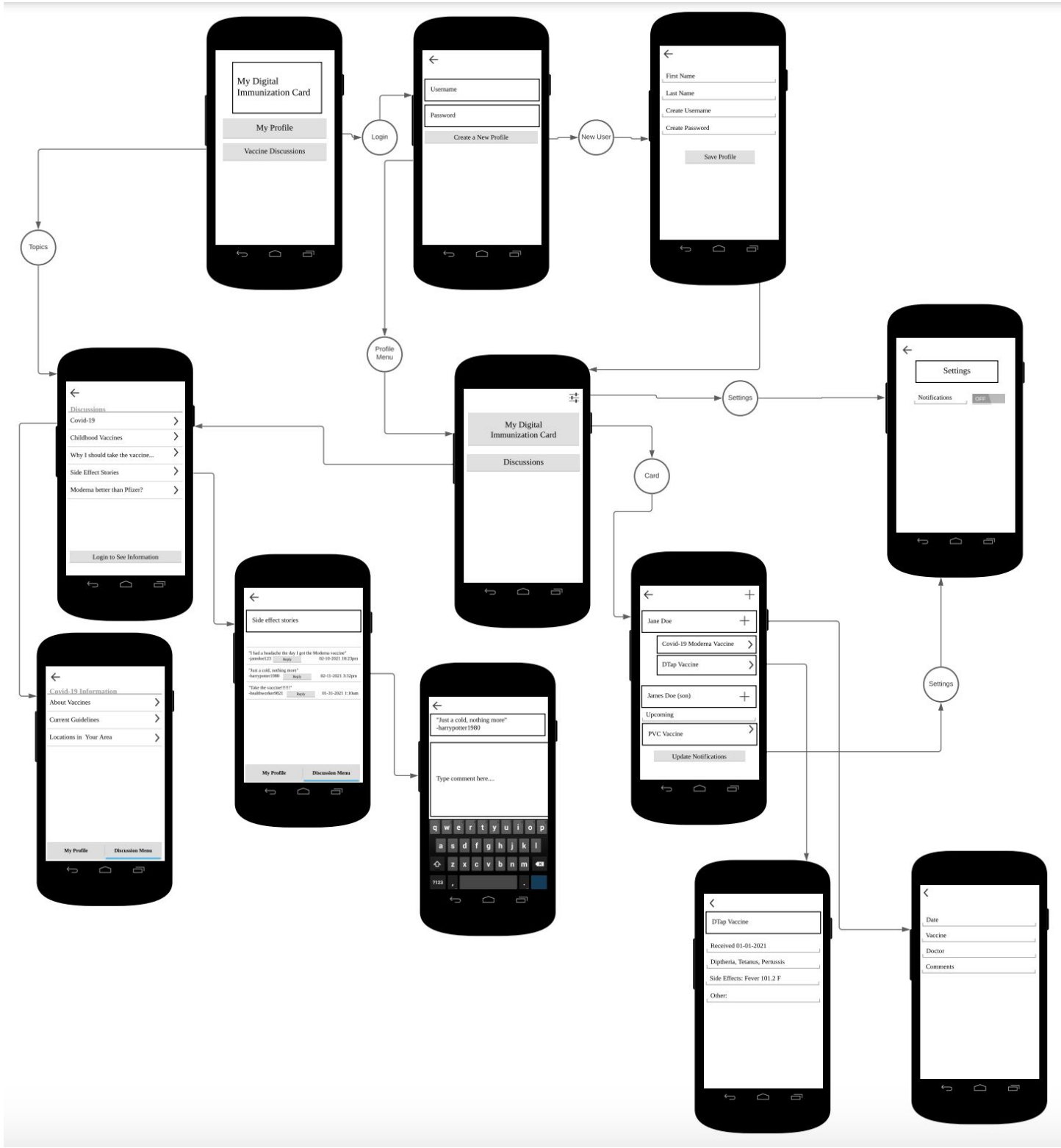
## **Background**

- The application will be developed as an Android mobile application.

## **Application Cost and Projected Success**

- The development of Version 1 of the application will not cost any money, nor will it cost money to customers. Future versions may include in-app purchases or advertising, but that is not in the scope of this class.

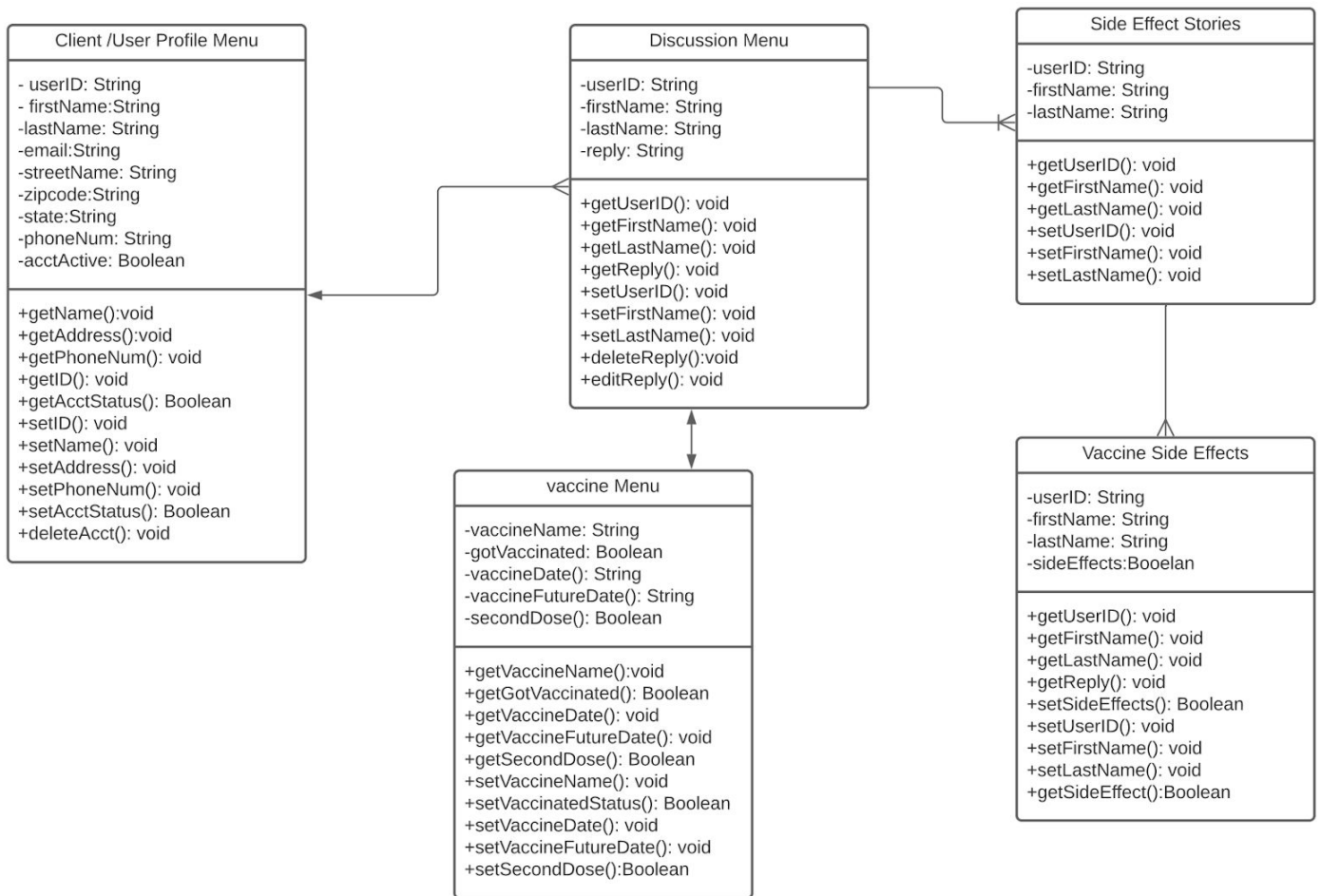
Interface Mockups



## Design - Use Case Diagram(s)



## Design - Detailed Design



- **Client/User Profile Menu Module**
  - Collects information about users and creates their profiles
- **Discussion Menu Module**
  - The discussion menu module allows user(s) to post discussion topics about the vaccines.
  - It allows the user to edit posts.
  - The user(s) can reply to other user(s) posts.
  - The user(s) is able to delete his/her post.
- **Vaccine Menu Module**
  - The vaccine menu module is set to collect information about the vaccines.
  - The vaccine names
- **Side Effect Stories Module**
  - The side effect stories module is set to collect information the user's experience/story and the side
- **Vaccine Side Effects Module**
  - The side effect stories module is set to collect information about the side effects of the vaccines.

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## **Related Work**

- Similar apps that give general information about vaccines are available on the Google Play store. For example, the CDC Vaccine Schedules App gives a quick-access to information from the CDC website, including recommendations for immunizations and color-coordinated schedules. We have not found any applications that incorporate a social aspect that allows users to interact with one another.

## **Frameworks/Services/Cloud/Backends**

These are to be used in the application:

- Frameworks: Android Studio
- Services: Google Maps API for finding vaccine sites
- Cloud/Backends: Cloud Services

## **Testing**

- We will do JUnit testing and Integration testing.

## **Schedule**

We will use Zenhub to monitor our progress. The following snapshot of our schedule is shown below and is already in progress.

VaxDiscussions ☆ ↗

Board

Reports

Roadmap

Milestones

Notifications

Workflows

Create...

Edit Workspace

View Tutorials

Shortcuts

Support and training

Changelog

Invite your team

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VaxDiscussions > Board

Repos (1/1)

Labels

Milestones

Assignees

Epics

Customize pipeline name and descriptions to match your team's workflow.

6 Issues - 0 Story Points

New Issues

High priority

High priority

cs401-project3 #2

Create the required Documentation

documentation

Other Issues

cs401-project3 #3

Create clear methods and variables for Objects.

cs401-project3 #4

Work on All Objects (methods, Variables, classes, Attributes)

enhancement

cs401-project3 #5

Basic command line program to test functions

cs401-project3 #6

Create Android APP

cs401-project3 #7

Setup Android (APP) methods

1 Issue - 0 Story Points

Done

cs401-project3 #1

Create an UML diagram through Lucidcharts , Github Repo.

documentation

## Dependencies

- Static and dynamic information about vaccines will be obtained from the CDC.gov website.