

Design Document for Digital Immunization Card

Authors: Mamata Polisetty, Sitara Meherzad, Joshua Deanon

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.

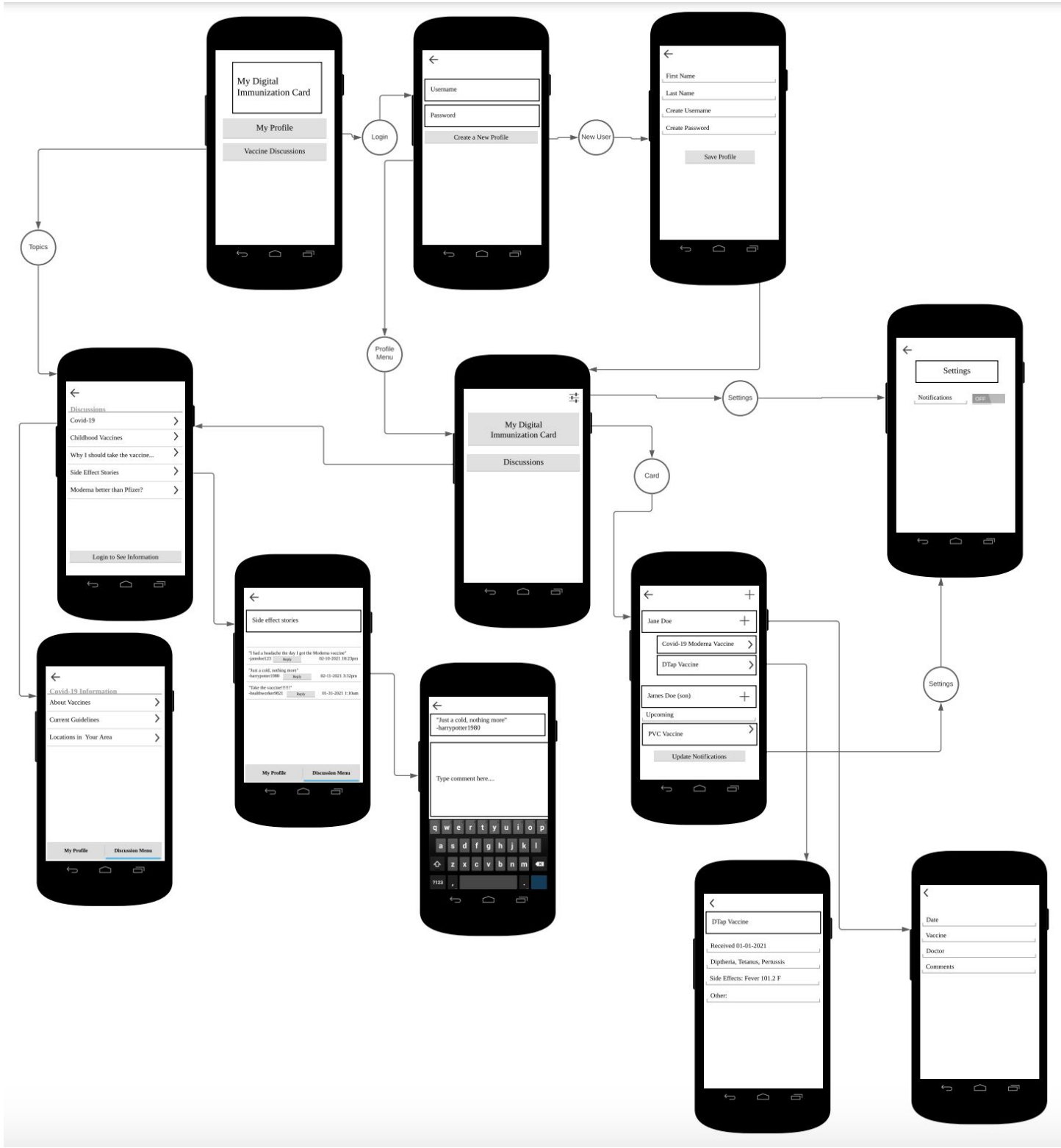
Background

- 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

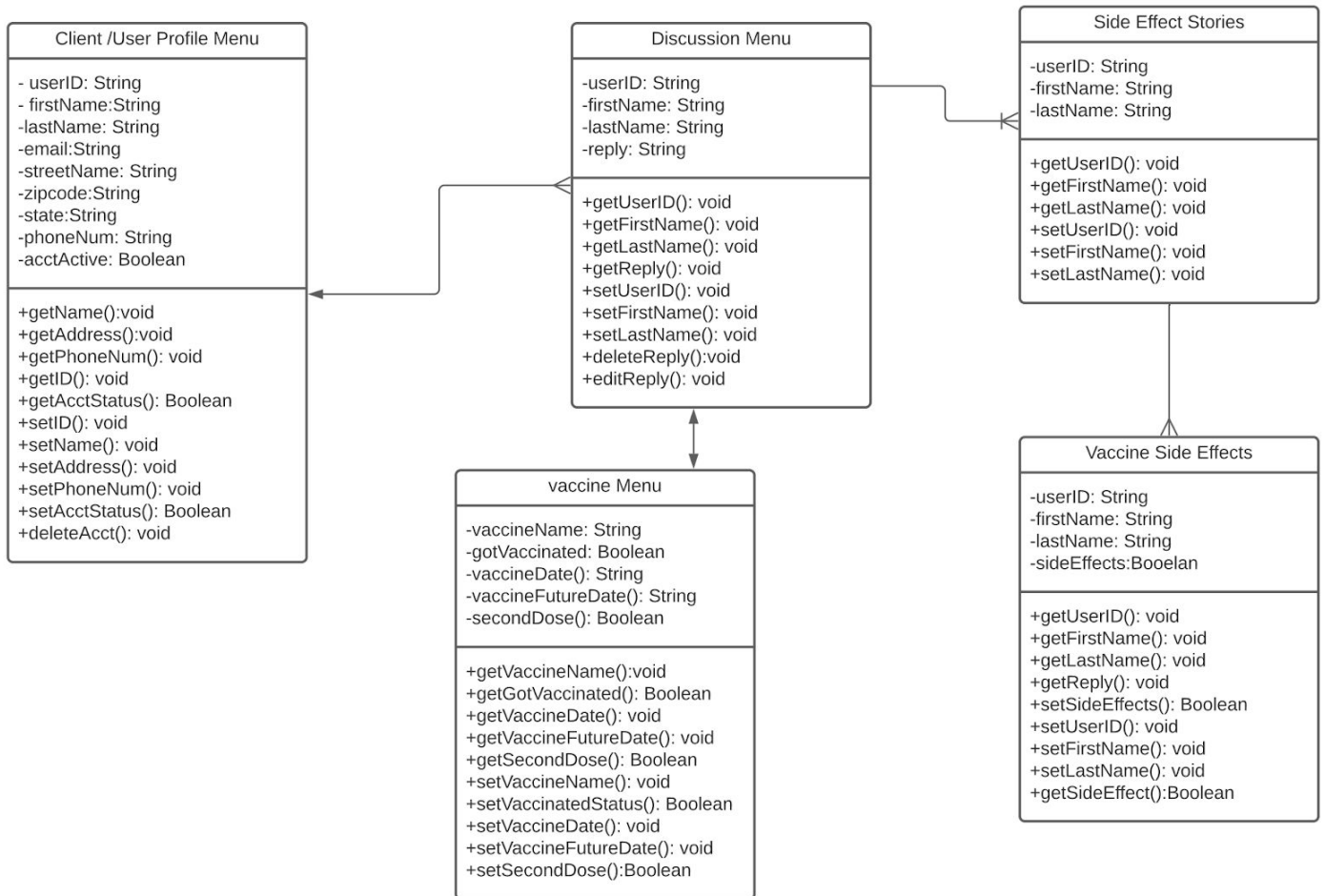


Design - Use Case Diagram(s)



Design - Detailed Design

- Break down design of the SW System into modules, give a system diagram
- Describe each module



- Client/User Profile Menu Module
 - Collects information about users and creates their profiles
- Discussion Menu Module
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- Vaccine Menu Module
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- Side Effect Stories Module
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- Vaccine Side Effects Module
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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

The following snapshot of our schedule is shown below and is already in progress.

Project Name:		Sitara	Project Start Display Week	<table><tr><td>2/10/2021</td></tr><tr><td>2</td></tr></table>	2/10/2021	2
2/10/2021						
2						
Digital Immunization Card		Mamata				
		Joshua				

TASK	ASSIGNED TO	PROGRESS	START	END
1. Create an UML diagram through Lucidcharts , Github Repo.		100%	10-Feb-21	18-Feb-20
2. Create the IEEE Standard required Documentation		0%		
3. Create the Gantt Charts, Roles and responsibilities, and Finish Required Documents.		0%		
4. Create clear methods and variables for Client Object.		0%		
5. Work on All Objects (methods, Variables, classes, Attributes).		0%		
6. Basic command line program to test functions (simulate fastrak capture).		0%		
7. Create API functions.		0%		
8. Setup local database & test API functions		0%		
9. Spring Break		0%		
10. Setup Android (APP)		0%		
11. Connect command line program to online database.		0%		
12. . JUnit testing		0%		
13. JUnit testing		0%		
14. Consider some form of GUI for APP		0%		
15. Finalize everything for presentation		0%		

Dependencies

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

