**Course Code: COMP 2606**

**Course Title: Software Engineering**

**Group #: 11**

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**Project Name: Digital Immunization Card**

**Requirements Documentation**

Functional Requirements

1. A user shall be able to create an account, providing their personal information including the necessary credentials (National ID, Driver’s permit, etc.).
2. A user shall be able to search for the nearest health clinic, based on the user’s current location.
3. A user shall be able to see which health clinic currently has their vaccine of choice.
4. A user shall be able to see which vaccines he/she has already taken, which vaccines he/she hasn’t taken in the past, and which vaccines he/she will have to take in the future.
5. A user shall also be able to see which vaccines are mandatory in countries outside of Trinidad and Tobago.
6. A user’s account shall be uniquely identifiable through the use of a QR Code, which the medical practitioner will scan at the relevant health institution.
7. A medical practitioner should be able to update a user’s immunization history via an internal website/database (Intranet, Ministry of Health website etc.); this database is connected to the Immunization app, so once changes are made and confirmed by the doctor, the same is reflected on the app. This connection is also how the app is aware of a health institution’s current vaccine inventory.

Non-Functional Requirements

1. A medical practitioner should be the only person able to update a user’s immunization history; this includes adding the practitioner’s name, name of health institution, type of vaccine and date of vaccination to the user’s immunization record.
2. The health institutions in stock of a particular vaccine should be sorted based on the user’s proximity, when the user searches for a vaccine of choice.
3. A medical practitioner should be the only person able to update the health institution’s vaccine inventory list. This should be done after each vaccination.
4. The Immunization app’s user interface should be very simple to use, with clear headers and fields when requesting user information, and a simple layout illustrating the user’s immunization history.