

# CPSC 304 Project Cover Page

Milestone #: 0

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Group Number: 10

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

## COVID VACCINATION DATABASE

- 2a. The domain that we are going to model is covid vaccination. Our application contains the user data starting from the user scheduling the vaccination appointment at one of the vaccination centers to actually receiving the covid vaccination doses. It will also record the side effects happening to the vaccine receiver and the date when this side effect happened. Also, it will store the vaccine inventory data at all the vaccination centers.

2b. There are 2 users-vaccine receivers and health workers. This portal will allow the vaccine receivers to: -

- Schedule their vaccination appointment at the vaccination centers. Vaccination centers have a unique center id, state, address, name and country. They will book a specific date to receive their covid vaccine dose(s), at one of the specifically allocated vaccine administration locations. We will keep track of currently scheduled and previously scheduled appointments.
- There will be track of the vaccine inventory at the vaccination centers. When the vaccine inventory decreases, the vaccination center places the vaccine order specifying the order id, order amount and order date to the vaccine manufacturers. We are capturing the manufacturer's name, production volume and production rate.
- Track of the name, vaccine type, number of shots required , minimum number of days between the shots for a particular vaccine and the time when the person receives their vaccine will be kept.
- We will record the side effects happening to the vaccine receiver in the body parts and also the date when this side effect happened.
- We are collecting details about the health worker who will give the vaccination to people.
- Keep track of people vaccinated, and the number of vaccine doses they have taken.
- Finally, the user can see the countries that have the highest vaccinations received.

3a. The database application is beneficial to the vaccination centers since it allows them to capture the vaccine data of people into a simple and reliable database, rather than having to go through millions of applications with countless paperwork. It would demand a lot of resources from the centers, such as workers and millions of dollars to employ them. The database application makes the process of storing and using the stored data in the future easier, more secure and systematic. Apart from this, it also provides a streamlined workflow for the users to book their vaccination appointments.

3b. The database application allows the vaccination centres to collect and save all the data that it receives starting from booking an appointment for the first covid vaccine dose till receiving their full covid vaccine regiment and become 'fully vaccinated'. It will also record the side effects happening to the vaccine receiver and the date when this side effect happened. Also, the vaccination centers can automatically order the vaccine doses depending on the vaccine inventory from the vaccine manufacturers.

4a. We plan on using the CPSC department's Oracle database system as the platform for our database system.

4b. Our expected application technology stack is PHP. We will also be using the CodeIgniter when implementing our database application.

5. A separate high-definition version of the image has been uploaded to canvas with the submission.

