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## Product Requirements Document

### Submission 1 Specification

[Flying Tiger]

SWEN90007 SM2 2021 Project



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SCHOOL OF  
**COMPUTING &  
INFORMATION  
SYSTEMS**

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## 1. Introduction

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### 1.1 Proposal

This document specifies use cases, actors to be implemented, and the system's domain model of the COVID-19 Vaccine Booking and Management System.

### 1.2 Target Users

This document is mainly intended for vaccine recipients, health care providers and administrators of the system.

### 1.3 Conventions, terms and abbreviations

This section explains the concept of some important terms that will be used throughout this document. These terms are detailed alphabetically in the following table.

Term	Description
COVID-19	Coronavirus disease 2019, which is an infectious disease caused by Severe Acute Respiratory Syndrome coronavirus type 2 (abbreviation SARS-CoV-2).

## 2. Actors

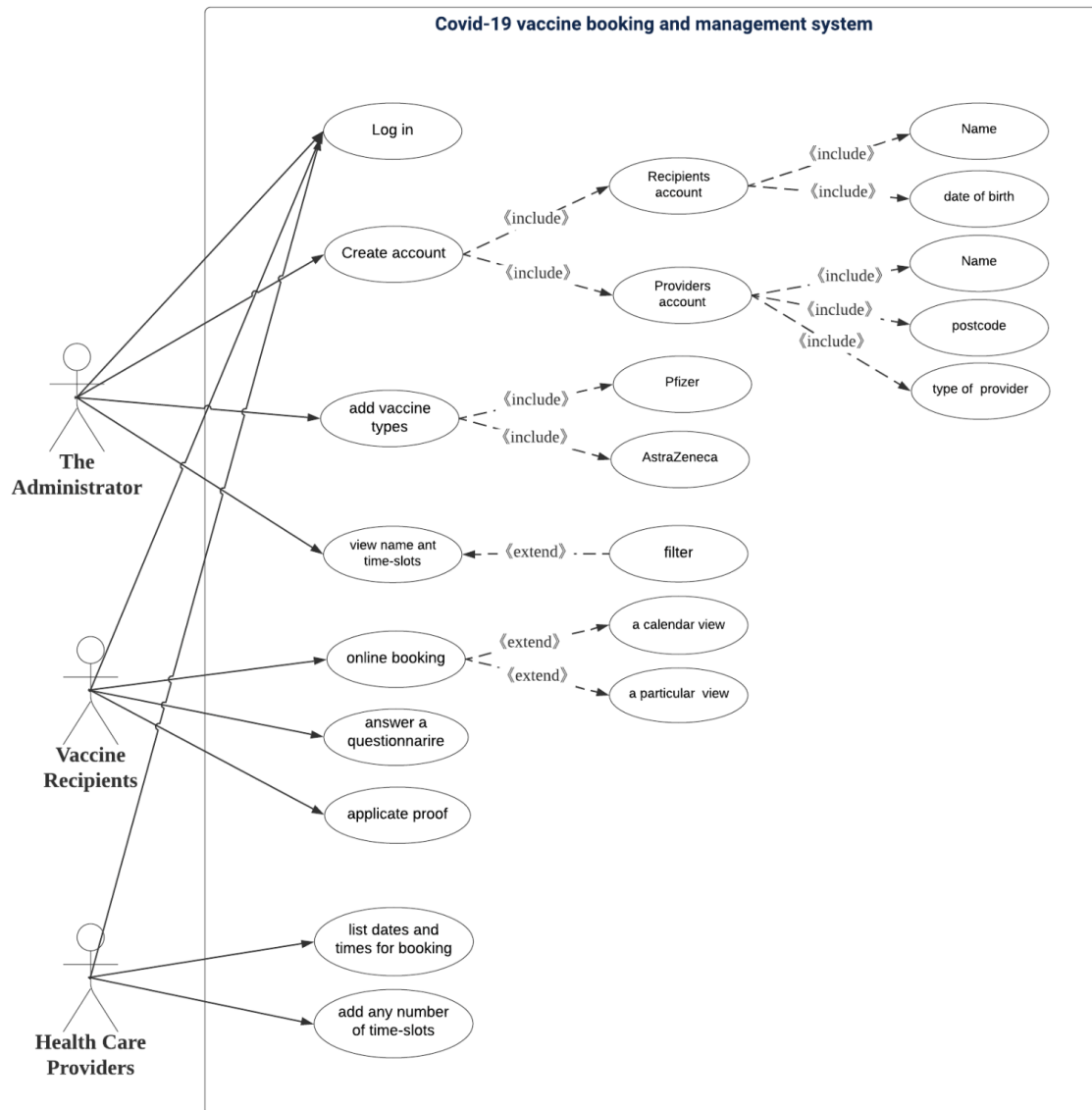
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Actor	Description
Administrator	The person who manages the COVID-19 Vaccine Booking and Management System.
Vaccine recipients	People who can make a book on vaccination.
Health care providers	People who provide vaccines, add injection timeslots and confirm the vaccination of a Vaccine recipient.

### 3. Use Cases

#### 3.1 Use cases diagram

Use case diagram



### 3.2 List of use cases

#### 3.2.1 Use case 1: Log in

**Actors:** Administrators, Vaccine Recipients, Health Care Providers

**Description:** Each user logs in to the Covid-19 vaccine booking and management system including Administrators, Vaccine Recipients, and Health Care Providers.

**Basic Flow:**

- One administrator, or vaccine recipient, or health care provider user opens the web, which is this booking and management system.
- He logs in by inputting his username and password.

#### 3.2.2 Use case 2: Create accounts

**Actors:** Administrators

**Description:** Administrators create recipients accounts with biographical information, or create provider accounts.

**Basic Flow:**

- Administrators get to know recipients' biographical information, including name and date of birth. Or administrators get to know health care providers' information, including name, postcode and type of provider.
- They create a relative account by inputting relative information on the web.

#### 3.2.3 Use case 3: Add vaccine types

**Actors:** Administrators

**Description:** Administrators add vaccine types which will be injected into incidents afterwards.

**Basic Flow:**

- Administrators get to know what vaccine types will be added.
- They click vaccine types and choose to add a new vaccine type, for example, AstraZeneca.

#### 3.2.4 Use case 4: View all users names and all time-slots

**Actors:** Administrators

**Description:** Administrators view all users' names that have been created before and all time-slots available to monitor time-slots vacancy.

**Basic Flow:**

- Administrators click viewing all the users' names or all the time-slots.
- They can view all the users' names or all the time-slots available on the web page.
- They click filters and choose the requirements, like the type of vaccine received for filtering users, and then they can view the users' names or the time-slots which meet the filters.

### 3.2.5 Use case 5: Book vaccines online

**Actors:** Vaccine Recipients

**Description:** Vaccine recipients book vaccine injection after viewing all available time-slots at all Health Care Providers and then choosing one time-slot.

**Basic Flow:**

- Vaccine recipients have a calendar view with all available time-slots at all Health Care Providers.
- They click one time-slot at one health care provider.
- They book the vaccine injection successfully.

### 3.2.6 Use case 6: Answer a short questionnaire

**Actors:** Vaccine Recipients

**Description:** Vaccine recipients answer a short questionnaire before submitting one booking and submit it.

**Basic Flow:**

- Vaccine recipients view a short questionnaire before booking on the web.
- They answer the questionnaire.
- They submit it.

### 3.2.7 Use case 7: Applicate proof of vaccination

**Actors:** Vaccine Recipients

**Description:** Vaccine recipients apply for proof of vaccination after injection and get one.

**Basic Flow:**

- Vaccine recipients apply for proof of vaccination after injection on the system.
- They can have one proof of vaccination and download it.

### 3.2.8 Use case 8: List dates and times of bookings

**Actors:** Health Care Providers

**Description:** Health Care Providers view a list of dates and times(time-slots) of bookings that book themselves.

**Basic Flow:**

- Health Care Providers click viewing time-slots of bookings.
- They can view a list of dates and times of bookings which book themselves.

### 3.2.9 Use case 9: Add any number of time-slots

**Actors:** Health Care Providers

**Description:** Health Care Providers add any number of themselves' available time-slots to the system for recipients to book.

**Basic Flow:**

- Health Care Providers click adding time-slots
- They can choose the date and time of time-slots.
- They add the chosen time slots to the system.

## 4. Domain Model

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### 4.1 Domain Model Description

Based on the specifications provided for the Vaccine Booking and Management system, the system entities, attributes, and business rules can be summarised as:

- Actors can be either **Administrators**, **Vaccine Recipients** or **Health Care Providers**;
- Only **Administrators** can create accounts for **Vaccine Recipients** or **Health Care Providers**;
- Only **Administrators** can add **VaccineType**;
- **Vaccine recipients** can book a **Timeslot** and **VaccineType** for vaccine injection;
- **Vaccine recipients** should answer *one* short questionnaire before booking;
- **Vaccine recipients** can get *one* **VaccineCertificate** after injection;
- Vaccines are *either* AstraZeneca or Pfizer;
- **Health Care Providers** add *one or more* **Time Slots** to the system.

**Entities** have been bolded; attributes have been underlined, and important *associations* have been italicized.



## 4.2 Domain Model Diagram

