**Functional/Non-Functional Requirements of Crown Pass Holders**

* **FR-CH-01: Registration**. Any general public should be able to register to the Crown Pass system to obtain a Crownpass ID. The minimal information required for registration is a real photo of the person. A Crownpass holder may also submit, but optional, the following data to the system: *mobile phone number*, *email address*, *home address*, *name*, *gender*, and *date of birth*. (*Priority: High*)
* **FR-CH-02: Print Pass.** A successfully registered Crownpass holder should be able to print his/her pass on a normal sheet of paper that consists of a photo of the pass and a QR code (also known as 2D bar code) that represents the pass holder’s identifier. (*Priority: High*)
* **FR-CH-09: Book Vaccination**. A Crownpass holder should be provided a facility to book a vaccination at a vaccine station/centre on an available date and time slot of his/her choice. (*Priority: Low*)
* **FR-CH-08: Self Check-in and Check-out**. The system should be able to enable the Crown Pass holders to check-in to and/or check-out from a controlled area using the Crownpass Holder App running on a mobile phone. (*Priority: Medium*)
* **FR-CH-05: Check trace**. A successfully registered Crownpass holder should be able to display his/her movement trace (i.e. the sequence of areas) that he/she has entered in a period of time of his/her choice on the screen of his/her mobile phone where the Crownpass Holder App runs. (*Priority: Medium*)
* **FR-CH-06: Web Access.** A successfully registered Crownpass holder should be able to access the following data of the pass holder by entering Crownpass ID: (a) Pass state, (b) Contact details, (c) Movement trace; where contain details can be reset, while other data cannot be modified by the pass holder. (*Priority: Medium*)
* **FR-CH-07: Notification.** The system should be able to notify the Crownpass holder when his/her pass state is changed. (*Priority: Medium*)

**Non-Functional Requirements**

* **FR-CH-04: Check state**. A successfully registered Crownpass holder should be able to show the states of his/her pass on the screen of his/her mobile phone where the Crownpass Holder App runs. (*Priority: High*)
* **FR-CH-03: Display Pass.** A successfully registered Crownpass holder should be able to display his/her pass on the screen of his/her mobile phone where the Crownpass Holder App runs. It should contain a photo of the pass holder and a QR code (also known as 2D bar code) that represents the pass holder’s identifier, and the infection state of the pass in colour code of *Green*, *Amber,* and *Red* as defined in Section 1, and the vaccination state in colour code of *White*, *Light Blue, Dark Blue* as defined in Section 1. (*Priority: High*)