ID	TITLE	DESCRIPTION	CONFIRMATION
1	User authentication: Open with web browsers	As CHP staff, I want to access HotZone via web browsers so that I don't need to install external software in every workstation.	The Django server runs successfully Access from MacOS and Windows with Chrome
2	Data Retrieval from GeoData: Retrieval of single location	As a CHP staff, I want to search for one specific location so that I can look for the details associated with that location quickly.	Input a valid location in search field, returns a single **location name** with its **HK1980 Grid Coordinates** and **address** from Geodata
3	Data management: Geodata recording	As a CHP staff, I want to record location details automatically so that location information is accurate for further processing like clustering	Decode the JSON-formatted data Save the **location name** with corresponding **HK1980 Grid Coordinates** and **address** in the database successfully
4	Data management: Adding patient information to a record	As a CHP staff, I want to add patients' information so that I can manage related information of a case easily	UI for adding **case number**, **date confirmed**, **local/imported, patient name, identity document number** and **date of birth** to a record Autofill if the patient information exists in the database Save in the database by clicking add
5	Data management: Adding virus information to a record	As a CHP staff, I want to add virus information so that I can manage related information of a case easily	UI for adding **virus name, disease** and **max. infectious period** Save in the database by clicking add
6	Data Retrieval from GeoData: Add multiple locations visited a record	As a CHP staff, I want to link multiple locations to a case so that the system can efficiently perform clustering	UI for adding **date from and date to, location** and **category** (Residence/workplace/visit) Save them to the database by clicking add
7	Data Retrieval from GeoData: Select one from multiple GeoData locations to add	As a CHP staff, I want to select one location to add to HotZone so that I can save the best-fit location from multiple GeoData Locations returned	When adding a new location, click the search icon, a list of location names from GeoData is for users to select

8	Data Retrieval from GeoData: Select locations are known to HotZone	As a CHP staff, I want to select locations that are already known to HotZone so that I can enter the location quickly and avoid duplicated data in the database	Click search, location known to HotZone is on top of the list for users to select.
9	Data management: Viewing all cases	As a CHP staff, I want to view all cases in a table so that I can quickly review the basic information of each case in the database	A table that lists **case ID, patient name, virus name, location data** and **date confirmed** of each case
10	Data management: Viewing a specific case	As a CHP staff, I want to view a specific case so that I can learn all the details of a case quickly	Select the case from the table List details of a case, including **case ID, patient name, confirmed Date, ID number, local/imported, virus name** and **date of birth** A table lists all visited locations associated with the case, including **date from and date to, location name, address** and **category**
11	User Authentication: Login interface	As a CHP, I want to log in with my username and password so that I can access HotZone securely	UI for entering **username** and **password** Mask the password
12	Identify clusters: Clustering	As an epidemiologist, I want to identify clusters based on the geographical proximity and time period so that I can find out hot zones efficiently	After clicking the submit, the HotZone performs clustering with all single-day visits in the database and displays the result in a table Users can switch from one cluster to another in that table and see a list of visits which includes the **location name, HK1980 Grid Coordinates, date of visit** and **case number** in each cluster.
13	Identify clusters: Specifying the values of the clustering criteria	As an epidemiologist, I want to specify the values of the clustering criteria so that I can find out potential environmental transmissions flexibly and accurately.	In the Clustering setting page, users can enter **inter-location distance threshold D, proximity in time threshold T** and **minimum cluster size C**. After clicking the save button, the setting is stored in cookies and new clusters matching the new criteria is returned.

			The default D value, T value and C value is 200, 3 and 2 respectively.
14	General Operation: Documentation	As the CHP management, I want to have clear and detailed documentation so that our developers and staff can pick up HotZone quickly for further usage.	The developer needs the **vision**, **domain models** and **user stories** to understand the intuitive, the structure and the plan of HotZone. Meanwhile, staff needs a tutorial to use the basic features, including **inputting data**, **viewing data** and **clustering**.

** Sprint 1: ID 1-3 ; Sprint 2 : ID 4-11 ; Sprint 3 : ID 12-14