INFS7901 Project Proposal

Interactive map to see and trace the spread of pandemics

The domain of the project is human movement and the consequent spread of pandemics. The system will focus on patient information, their condition, popular areas they visited and potential patients that had close contact with a confirmed case. By modelling patients and where they have travelled, it is possible to track down contagious clusters. It is expected that this will provide important insight on dangerous areas and potentially infected patients.

The application will record information on patients who have contracted a popular disease. Possible attributes include name, address, nationality the disease they have and the estimated date they contracted the disease. Additionally, information to track the movement of the patient will be recorded, such as:

* The hospital(s) they are admitted to
* Popular/Busy areas they visited
* People who had close contact with the patient

Each area the patient visits will be recorded as either a landmark or an event. The time when the patient was there and how long he/she stayed will be recorded as well.

Python and MySQL will be

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| **Entity** | **Primary Key** | **Candidate Keys** |
| Patient | Patient ID |  |
| HighRiskContact | Ssn, Patient ID |  |
| Hospital | HospitalID |  |
| Area | Address |  |
| Transport | Name, Datetime |  |
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