# Teenage Yummy Yellow Men

Dengue App

# Project Mission Statement

The Teenage Yummy Yellow Men will develop a website to enhance ease of access to residents living in Singapore about the information of dengue cases in a chosen location. This project reinforces the Singapore National Environmental Agency’s national dengue prevention campaign and raises awareness among Singapore residents.

# Functional Requirements

**System Functionality to be performed**

1. A user should be able to view today’s total number of dengue cases in Singapore
2. A user should be able to view the number of dengue cases around their current location in the last 14 days.
3. A user should be able to view trends of dengue cases in the past week.
4. A user should be able to view a dengue hotspot map.

**Interface with other systems**

1. The system must be able to use wifi/data to communicate all transactions with gov.sg API
2. The system must be able to use wifi/data to communicate all transactions with Google Maps API
3. The system must be able to be run on mobe (iOS, Android) systems as well as browser systems (Safari, Chrome)

# Non-Functional Requirements

Usability

1. 90% of the users must be able to obtain the number of dengue cases in their chosen area within 2 minutes of starting to use the system
2. The *welcome page* must contain a dropdown menu that provides options to users on the location they input.
3. The *dashboard* must have a minimalistic design, featuring a maximum of four pieces of information displayed on the page at any point in time.

Reliability

1. Data must be pulled from the *data.gov.sg API* at a minimum frequency of once every 24 hours

Performance

1. When the user inputs a location, the system must generate the required output within 5 seconds

# Data Dictionary

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| Term | Definition |
| data.gov.sg API | An application programming interface maintained by the Singapore Government that provides local public data |
| Dengue | Dengue virus is an Aedes mosquito-borne virus that results in dengue fever. So far, all 5 known serotypes of the virus are able to cause the full spectrum of the disease. |
| NEA | The National Environment Agency is a statutory board responsible for improving and sustaining a clean and green environment in Singapore |
| Number of cases | Number of patients confirmed to have dengue fever |
| Dengue Clusters | A dengue cluster is a localised area where two or more dengue cases have been recorded in less than 14 days |
| Red Alert Level | High-risk area with 10 or more cases |
| Yellow Alert Level | High-risk area with less than 10 cases |
| Green Alert Level | Low-risk area, under surveillance for the next 21 days |