**Use Case Descriptions**

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| Use Case ID: | 1.1 | | |
| Use Case Name: | Check Dengue Statistics | | |
| Created By: | Xing Xiang | Last Updated By: | - |
| Date Created: | 28/8/20 | Date Last Updated: | - |

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| Actor: | User |
| Description: | The user selects their location and is presented with a dashboard with the current 14-day total number of dengue cases, as well as the trend in the number of dengue cases for the past week. |
| Preconditions: | 1. The app boots successfully 2. The user chooses the option to select a location 3. The user’s smartphone has internet connection |
| Postconditions: | 1. The app successfully shows the current 14-day-total cases to the user |
| Priority: | High (???) |
| Frequency of Use: | 1-2 times per day |
| Flow of Events: | 1. The user opens the app 2. The app loads and presents the user with 2 options: select a location, or view the Dengue hotspot map 3. The user selects the location from a dropdown box 4. The app receives the location and sends a request o the data.gov.sg API for all 14-day-total dengue cases in Singapore 5. The app filters the number of dengue cases in the selected location 6. The app presents the current 14-day-total cases to the user |
| Alternative Flows: | AF-S4: If the data has not been updated on data.gov.sg   1. The app uses the previous set of data for steps 4-6. 2. The app displays the message “This data is correct as of <insert date>” |
| Exceptions: | EX1: The app loses internet connection while querying the API   1. The app displays “Oh no! We seem to have lost connection” 2. The app retries every 2 seconds to query the API once internet connection is back |
| Includes: | 1.2: Select Location |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| Use Case ID: | 1.2 | | |
| Use Case Name: | Select Location | | |
| Created By: | Xing Xiang | Last Updated By: | - |
| Date Created: | 28/8/20 | Date Last Updated: | - |

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| Actor: | User |
| Description: | The user selects their location from a dropdown box. |
| Preconditions: | 1. The “Select Location” dropdown box loads successfully 2. Permissions to get the user’s current location has been granted |
| Postconditions: | 1. The location entered is saved and used for subsequent actions |
| Priority: | High (???) |
| Frequency of Use: | 1-2 times per day |
| Flow of Events: | 1. The user taps the dropdown box 2. The app presents the user with a dropdown list of various locations, including a “Current Location” option at the top 3. The user selects a location |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| Use Case ID: | 2.1 | | |
| Use Case Name: | View Hotspot Map | | |
| Created By: | The Protagonist | Last Updated By: | - |
| Date Created: | 30/8/20 | Date Last Updated: | - |

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| Actor: | User |
| Description: | The user is presented with a map of Singapore, with different areas color coded in different colors, with each color representing the size of the Dengue cluster in each area |
| Preconditions: | 1. The app boots successfully 2. The user selects the option to view the map 3. The user’s smartphone has internet connection |
| Postconditions: | 1. The app successfully displays the map to the user |
| Priority: | High (???) |
| Frequency of Use: | 1-2 times per day |
| Flow of Events: | 1. The user opens the app 2. The app loads and presents the user with 2 options: select a location, or view the Dengue hotspot map 3. The user selects the option to view the Dengue hotspot map 4. The app sends a request to the data.gov.sg API for all 14-day-total dengue cases in Singapore 5. The app generates a map with all the Dengue clusters in Singapore based on the data pulled in step 5 6. The app presents the map to the user |
| Alternative Flows: | AF-S4: If the data has not been updated on data.gov.sg   1. The app uses the previous set of data for steps 4-6. 2. The app displays the message “This data is correct as of <insert date>” |
| Exceptions: | EX1: The app loses internet connection while querying the API   1. The app displays “Oh no! We seem to have lost connection” 2. The app retries every 2 seconds to query the API once internet connection is back |
| Includes: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |