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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Selection | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

Use Case Description

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| --- | --- |
| Actor: | User |
| Description: | This use case is to allow user to perform selections until their selections trigger any of the extension conditions. |
| Preconditions: | The application is opened by the user. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. The user makes selection at the tool bar, the choices are displaying emergency situations and displaying other useful information.  2. If the user selects displaying emergency situations, a dropdown list will appear, there will be four choices on the dropdown list, which are natural hazards, epidemic, traffic accidents and accidents within crowed areas.  3. If the user selects displaying other useful information, a dropdown list will appear, there will be two choices on the dropdown list, which are weather and location of civil defense shelters.  4. The user will be directed to the corresponding extension based on the choices made on the dropdown list. |
| Alternative Flows: | AF: The user is able to go back to step 1 during step 2-4, the step 4 includes all the actions done by the extension use cases. (include more info about how to go back later) |
| Exceptions: | (to be decided) |
| Includes: | Nil |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Extensions are added to avoid a very long flow of events.  The map (of Singapore) is displayed under the toolbar. |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Display Natural Hazard | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of natural hazard. |
| Preconditions: | The user selects natural hazard on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. A dropdown list appears, the choices on the dropdown list are fire, haze, tsunami, typhoon, earthquake and earthquake aftershocks.  2. Based on user’s selection, location of the corresponding hazard is indicated as a coloured dot on the map (of Singapore).  3. The corresponding hazard’s date, location, intensity, possible harms are displayed in a table under the map  4. Related hazard prevention and control information is displayed under the table. |
| Alternative Flows: | AF: After step 4, if the user clicks on the dot representing the incident, execute the included case On Click. |
| Exceptions: | (to be decided) |
| Includes: | On Click |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Display Epidemic | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of epidemic. |
| Preconditions: | The user selects epidemic on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. A dropdown list appears, the choices on the dropdown list are HIV/AIDS, bird-flu and Zika.  2. Based on user’s selection, location of the corresponding epidemic is indicated as a coloured dot on the map (of Singapore).  3. The corresponding epidemic’s location, dangerous level and case number are displayed in a table under the map.  4. Related epidemic prevention and control information is displayed under the table. |
| Alternative Flows: | AF: After step 4, if the user clicks on the dot representing the incident, execute the included case On Click. |
| Exceptions: | (to be decided) |
| Includes: | On Click |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Display Traffic Accidents | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

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| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of traffic accidents. |
| Preconditions: | The user selects traffic accidents on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. A dropdown list appears, the choices on the dropdown list are single car accident, two car collisions and multiple vehicle pile-up.  2. Based on user’s selection, location of the corresponding epidemic is indicated as a coloured dot on the map (of Singapore).  3. The centre of the corresponding traffic accident and the dangerous zone along with the affected roads result from the traffic accident are displayed in a table under the map. |
| Alternative Flows: | AF: After step 3, if the user clicks on the dot representing the incident, execute the included case On Click. |
| Exceptions: | (to be decided) |
| Includes: | On Click |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| Use Case ID: |  | | |
| Use Case Name: | Display Accidents Within Crowded Areas | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

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| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of accidents within crowded areas. |
| Preconditions: | The user selects accidents within crowded areas on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. A dropdown list appears, the choices on the dropdown list are terrorist attacks and mass shooting.  2. Based on user’s selection, location of the corresponding epidemic is indicated as a coloured dot on the map (of Singapore).  3. The corresponding accidents’ location, attack intensity and victims are displayed in a table under the map. |
| Alternative Flows: | AF: After step 3, if the user clicks on the dot representing the incident, execute the included case On Click. |
| Exceptions: | (to be decided) |
| Includes: | On Click |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Display Weather | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of weather. |
| Preconditions: | The user selects weather on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. The information of today’s temperature, humidity, PM2.5, UV light intensity and air pollutants are displayed on the top-half of the webpage.  2. The following week’s weather forecast is displayed under today’s weather information. |
| Alternative Flows: | Nil |
| Exceptions: | (to be decided) |
| Includes: | Nil |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | Display Civil Defence Shelters | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

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| --- | --- |
| Actor: | Null |
| Description: | This use case is to display the information of civil defence shelters |
| Preconditions: | The user selects civil defence shelters on the dropdown list. |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. The location of CDSs are indicated as blue coloured dots on the map (of Singapore)  2. The user checks one of the CDSs (how to check will be added later).  3. The information of whether the shelter is fully occupied will be displayed on the screen (where to display will be added later). |
| Alternative Flows: | Nil |
| Exceptions: | (to be decided) |
| Includes: | Nil |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |

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| --- | --- | --- | --- |
| Use Case ID: |  | | |
| Use Case Name: | On Click | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actor: | Null |
| Description: | This use case is to perform actions when the user clicks on the dot representing the incident. |
| Preconditions: | The user clicks on the dot representing the incident |
| Postconditions: | The desired information is displayed properly on the screen. |
| Priority: | Nil. |
| Frequency of Use: | (to be decided) |
| Flow of Events: | 1. The user will be directed to an independent webpage.  2. (display info to be decided)  3. The user is able to close the web page to go back to the homepage of CMS. |
| Alternative Flows: | Nil |
| Exceptions: | (to be decided) |
| Includes: | Nil |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |