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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. After the user open the web application, a tool bar is displayed at the top of the web page, meanwhile, the map (of Singapore).  2. The user makes selection at the tool bar, the choices are displaying emergency situations and displaying other useful information.  3. 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 at any step includes all the steps of 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 Emergency Situations | | |
| 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 emergency situations. |
| Preconditions: | The user selects displaying emergency situations from the tool bar. |
| 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 display natural hazard, display epidemic, display traffic accidents and display accidents within crowded areas.  2. The operation is then handled by the corresponding alternative flow (AF 1- 4). |
| Alternative Flows: | AF 1: At step 1, if the user selects display natural hazard.  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.  AF 2: At step 1, if the user selects display epidemic.  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.  AF3: At step 1, if the user selects display traffic accidents.  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.  AF4: At step 1 if the user selects display accidents within crowded areas.  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.  AF5: After step 2, if the user clicks on the dot representing the incident.  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. |
| 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 Other Useful Information | | |
| Created By: | Li Guanlong | Last Updated By: |  |
| Date Created: | 2/9/2018 | Date Last Updated: |  |

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| Actor: | External Database |
| Description: | This use case is to display other useful information. |
| Preconditions: | The user selects display other useful information from the tool bar. |
| 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 weather and civil defence shelter.  2. The operation is then handled by the corresponding alternative flow (AF 1- 2). |
| Alternative Flows: | AF1: At step 1, if the user selects weather.  1. All required information about weather is retrieved from the  external database.  2. The information of today’s temperature, humidity, PM2.5, UV  light intensity and air pollutants are displayed on the top-half of  the webpage.  3. The following week’s weather forecast is displayed under  today’s weather information.  AF2: At step 2, if the user selects civil defence shelter.  1. All required information about civil defence shelter (CDS) is  retrieved from the external database.  2. The location of CDSs are indicated as blue coloured dots on  the map (of Singapore)  3. The user checks one of the CDSs (how to check will be added  later).  4. The information of whether the shelter is fully occupied will  be displayed on the screen (where to display will be added later). |
| Exceptions: | (to be decided) |
| Includes: | Nil |
| Special Requirements: | Nil |
| Assumptions: | Nil |
| Notes and Issues: | Nil |