Test Cases for System Level Functional Tests

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Table of Content

[**Use Case 1: Provide Real-time Crises Information on Map**](#_p3wc2y4zhet8) **3**

[**Use Case 2: Update Real Time Data**](#_6sm1i2t71qb2) **3**

[**Use Case 3: Call Center Update**](#_kjp7cilwtr2f) **4**

[**Use Case 4: Receive Dispatch Command**](#_b26nv58odn2s) **5**

[**Use Case 5: Update Social Media**](#_qvecc93omh4b) **5**

[**Use Case 6: Generate Status Report**](#_62qan6uu8lcw) **5**

[**Use case 7: Resolve Emergency**](#_et4xa3vo2mn0) **6**

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# **Use Case 1: Provide Real-time Crises Information on Map**

Evaluation Criteria

1. Public UI must display the Live-Feed and Map.
2. Public UI must display the correct data on Live-Feed and Map according to the radio button that user select.

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | Open the starting webpage | Both Live-Feed and Map are displayed nicely. | Both Live-Feed and Map are displayed nicely. | Pass |
| 2. | User clicks the dengue radio button | Data related to Dengue are displayed in Live-Feed and Map | Data related to Dengue are displayed in Live-Feed and Map | Pass |
| 3. | User clicks the weather radio button | Data related to PSI and weather condition are displayed in Live-Feed and Map | Data related to PSI and weather condition are displayed in Live-Feed and Map | Pass |
| 4. | User clicks the emergencies radio button | Data related to emergencies are displayed in Live-Feed and Map | Data related to emergencies are displayed in Live-Feed and Map | Pass |

# **Use Case 2: Update Real Time Data**

Evaluation Criteria

1. Public UI must refresh the data for dengue, weather and emergencies every 1 minute.
2. When the call center updated the emergencies, the update must reflect in Live-Feed and Map.

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | Run the System for five minute | Data displayed in Map and Live-Feed is refreshed every 1 minute | Data displayed in Map and Live-Feed is refreshed every 1 minute | Pass |
| 2. | Add a new emergency case from Call Center | New Emergency case is added in Live-Feed and Map | New Emergency case is added in Live-Feed and Map | Pass |

# **Use Case 3: Call Center Update**

Evaluation Criteria

1. When the user clicks the submit button, the data must be added to the emergencies database of the call center.

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | User fills the formation and clicks the submit button | Emergencies database is updated | Emergencies database is updated | Pass |

# **Use Case 4: Receive Dispatch Command**

Evaluation Criteria

1. Whenever new emergency is added, the system sends the dispatch command to the government emergency agencies via SMS.

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | Call Center add a new emergency | System validates the emergency and send dispatch command to emergency services | System validates the emergency and send dispatch command to emergency services | Pass |

# **Use Case 5: Update Social Media**

Evaluation Criteria

1. System updates the emergencies in social media (facebook, twitter)

Notes  
Since we do not get an approval from Facebook and Twitter to use their api, we are not able to test this use case.

# **Use Case 6: Generate Status Report**

Evaluation Criteria

1. The system must generate status report about crises around Singapore every 30 minutes and send it the Prime Minister Office via Email

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | Run the system for 35 minutes | 1. System analyzes all the dengue, weather and emergencies conditions and generate the report  2. System send the report via gmail to prime minister office | 1. System analyzes all the dengue, weather and emergencies conditions and generate the report  2. System send the report via gmail to prime minister office | Pass |

# **Use case 7: Resolve Emergency**

Evaluation Criteria

1. The system must be able to receive SMS from relevant emergencies.
2. The system must update the status of the emergency to “solved”

Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Description | Expected Result | Actual Result | Pass/Fail |
| 1. | Send resolved SMS to the system about one emergency | The system receives the SMS and set the status of the emergency to “solved”. | The system receives the SMS and set the status of the emergency to “solved”. | Pass |