

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from the bar, containing the date.

11/13/2015

# **Crisis Management System**

Use Case Description V4.0

DONTCRYSIS SOFTWARE  
SOLUTIONS

Several thin, curved lines in dark blue and light gray originate from the bottom left and sweep upwards and to the right, creating a dynamic, abstract design element.

## Manage Users

### 1.1 Subscribe

Use Case ID:	1.1		
Use Case Name:	Subscribe		
Created By:	Madhavan Seshadri	Last Updated By:	Madhavan Seshadri
Date Created:	12 <sup>th</sup> September, 2015	Date Last Updated:	19 <sup>th</sup> September, 2015

Actor:	Public
Description:	The user subscribes to the system to receive updates every time a crisis is created.
Preconditions:	NIL
Postconditions:	The user is redirected to the homepage.
Priority:	Medium
Frequency of Use:	Once per user (Recommended)
Flow of Events:	<ol style="list-style-type: none"><li>1. User enters his full name, mobile number, NRIC, address, age, postal code and email.</li><li>2. User submits the information.</li><li>3. User details are entered into the database.</li></ol>
Alternative Flows:	NIL
Exceptions:	<ol style="list-style-type: none"><li>1.1.EX.1 NRIC already exists: User is notified that a subscriber with his NRIC already exists and he remains on the same page.</li><li>1.1.EX.2 Email already exists: User is notified that a subscriber with his email already exists and he remains on the same page.</li><li>1.1.EX.3 One or more fields are left empty: User is notified that the field is required and he remains on the same page.</li></ol>
Includes:	NIL
Special Requirements:	User must enter all the details in the form to subscribe successfully.
Assumptions:	All the details entered by the user are accurate.
Notes and Issues:	NIL

### 1.2 Login

Use Case ID:	1.2		
Use Case Name:	Login		
Created By:	Madhavan Seshadri	Last Updated By:	Madhavan Seshadri
Date Created:	12 <sup>th</sup> September, 2015	Date Last Updated:	19 <sup>th</sup> September, 2015

Actor:	Call Center Employee
Description:	The call center employee enters username and password to login

## [DontCrysis] Software Requirements Specifications

Preconditions:	NIL
Post conditions:	NIL
Priority:	Medium
Frequency of Use:	Every time an employee uses the application
Flow of Events:	<ol style="list-style-type: none"><li>1. Employee enters his username and password.</li><li>2. The username and password entered by the employee are verified from the database.</li><li>3. System creates a session.</li></ol>
Alternative Flows:	NIL
Exceptions:	1.2.EX.1 Invalid username and/or password: Employee is notified that the credentials are invalid.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	The employee was assigned a username and password at the time of his induction
Notes and Issues:	NIL

### 1.3 Logout

Use Case ID:	1.3		
Use Case Name:	Logout		
Created By:	Noopur Jain	Last Updated By:	Noopur Jain
Date Created:	14 <sup>th</sup> September, 2015	Date Last Updated:	14 <sup>th</sup> September, 2015

Actor:	Call Center Employee
Description:	Logs out the call center employee
Preconditions:	The call center employee must be logged in
Post conditions:	NIL
Priority:	Low
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"><li>1. System deletes the call center employee's session</li><li>2. The call center employee is redirected to the logout page</li></ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

# 1. Manage Events

## 1.1. Create Event

Use Case ID:	2.1		
Use Case Name:	Create Event		
Created By:	Shreyas Mundhra	Last Updated By:	Shreyas Mundhra
Date Created:	16 <sup>th</sup> September, 2015	Date Last Updated:	18 <sup>th</sup> September, 2015

Actor:	Employee
Description:	Creating a new event
Preconditions:	The employee has logged in to the application
Post conditions:	NIL
Priority:	High
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"> <li>1. The employee enters the title of the event, description, postal code, type and severity of the event and name and contact number of the person reporting the event.</li> <li>2. The event details are entered into the database.</li> <li>3. <u>Send SMS</u></li> <li>4. <u>Send Email</u></li> <li>5. <u>Post to Facebook</u></li> <li>6. The employee is notified that the event has been added successfully.</li> </ol>
Alternative Flows:	NIL
Exceptions:	2.1.EX.1 Any of the fields is empty: The employee is notified that the field is required
Includes:	NIL
Special Requirements:	NIL
Assumptions:	All the details entered by the employee are accurate.
Notes and Issues:	NIL

## 1.2. Edit Event

Use Case ID:	2.2		
Use Case Name:	Edit Event		
Created By:	Shuvam Nandi	Last Updated By:	Shuvam Nandi
Date Created:	14 <sup>th</sup> September, 2015	Date Last Updated:	14 <sup>th</sup> September, 2015

Actor:	Employee
Description:	Editing an event

## [DontCrysis] Software Requirements Specifications

Preconditions:	1. Employee has already logged in to the application. 2. The event already exists.
Post conditions:	NIL
Priority:	High
Frequency of Use:	NIL
Flow of Events:	1. Employee selects an existing event to be edited. 2. The event details are retrieved from database and displayed in a form. 3. The employee makes the necessary changes in the form for editing event and submits those changes. 4. The details of that event are updated in the database.
Alternative Flows:	NIL
Exceptions:	2.2.EX.1 Any of the fields are empty: The employee is notified that the fields are required.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	All the details entered by the employee are accurate.
Notes and Issues:	NIL

### 1.3. Activate/Deactivate Event

Use Case ID:	2.3		
Use Case Name:	Activate/Deactivate Event		
Created By:	Parth Satija	Last Updated By:	Parth Satija
Date Created:	17 <sup>th</sup> September, 2015	Date Last Updated:	17 <sup>th</sup> September, 2015

Actor:	Employee
Description:	Toggling an event from active to inactive or vice versa
Preconditions:	3. Employee has already logged in to the application. 4. The event already exists.
Post conditions:	NIL
Priority:	Low
Frequency of Use:	NIL
Flow of Events:	1. Employee selects an event to be activated or deactivated. 2. The event is toggled from active to inactive or vice versa. 3. The database is updated.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

## 2. Send Notifications

### 2.1. Send SMS

Use Case ID:	3.1		
Use Case Name:	Send SMS		
Created By:	Mokshika Gaur	Last Updated By:	Mokshika Gaur
Date Created:	13 <sup>th</sup> September, 2015	Date Last Updated:	13 <sup>th</sup> September, 2015

Actor:	Event Management System
Description:	Sends SMS about the event details
Preconditions:	A new event has been created
Post conditions:	NIL
Priority:	Medium
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"><li>1. The contact number of the recipient and the message is set based on the type of event created.</li><li>2. SMS is sent to the intended recipient.</li></ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	SMS is only sent for fires, medical emergencies and gas leaks

### 2.2. Send Email

Use Case ID:	3.2		
Use Case Name:	Send Email		
Created By:	Patricio	Last Updated By:	Patricio
Date Created:	19 <sup>th</sup> September, 2015	Date Last Updated:	29 <sup>th</sup> September, 2015

Actor:	Event Management System
Description:	Sends email about the event details
Preconditions:	A new event has been created
Post conditions:	NIL
Priority:	Medium
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"><li>1. The subject and message is set based on the new event created.</li><li>2. The email is sent to all subscribers.</li></ol>

## [DontCrysis] Software Requirements Specifications

Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

### 2.3. Post to Facebook

Use Case ID:	3.3		
Use Case Name:	Post to Facebook		
Created By:	Shreyas Mundhra	Last Updated By:	Shreyas Mundhra
Date Created:	17 <sup>th</sup> September, 2015	Date Last Updated:	17 <sup>th</sup> September, 2015

Actor:	Event Management System
Description:	Posts the event details on Facebook
Preconditions:	A new event has been created
Post Conditions:	NIL
Priority:	Medium
Frequency of Use:	NIL
Flow of Events:	1. The details of the new event are posted on our Facebook page.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

## 3. Report

### 3.1. Generate Report

Use Case ID:	4.1		
Use Case Name:	Generate Report		
Created By:	Ankur Bansal	Last Updated By:	Ankur Bansal
Date Created:	14 <sup>th</sup> September, 2015	Date Last Updated:	16 <sup>th</sup> September, 2015

Actor:	System
Description:	Generates a report of the recent events that have been reported
Preconditions:	At least 30 minutes must have elapsed since the last report was generated
Postconditions:	NIL
Priority:	Medium
Frequency of Use:	Once every 30 minutes
Flow of Events:	<ol style="list-style-type: none"><li>1. The details of all the events created in the past 30 minutes are retrieved from database.</li><li>2. The event details are stored in table format.</li><li>3. This table is written into a PDF file.</li></ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

### 3.2. Send Report

Use Case ID:	4.2		
Use Case Name:	Send Report		
Created By:	Noopur Jain	Last Updated By:	Noopur Jain
Date Created:	16 <sup>th</sup> September, 2015	Date Last Updated:	16 <sup>th</sup> September, 2015

Actor:	System
Description:	Sends a report of all the recent events that have been created to the PMO
Preconditions:	At least 30 minutes must have elapsed since a report was last sent
Post conditions:	NIL
Priority:	Medium
Frequency of Use:	Once every 30 minutes



## [DontCrysis] Software Requirements Specifications

Flow of Events:	1. <u>Generate Report</u> 2. Email the generated report to the PMO
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

### 3.3. Add Report Receivers

Use Case ID:	4.3		
Use Case Name:	Add Report Receivers		
Created By:	Parth Satija	Last Updated By:	Parth Satija
Date Created:	20 <sup>th</sup> September, 2015	Date Last Updated:	20 <sup>th</sup> September, 2015

Actor:	Call Center Employee
Description:	Adds the persons who should receive the report
Preconditions:	1. Employee should be logged in
Post conditions:	NIL
Priority:	Low
Frequency of Use:	NIL
Flow of Events:	1. Employee submits the name and email of the recipient of the report 2. The details of the new recipient are written to the database
Alternative Flows:	NIL
Exceptions:	4.3.EX.1 Any of the fields are empty: The employee is notified that the fields are required. 4.3.EX.2 Email already exists: The employee is notified that a report receiver with that email already exists.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

## 4. Haze and Weather

### 4.1. Update Haze Readings

Use Case ID:	5.1		
Use Case Name:	Update Haze Readings		
Created By:	Shuvam Nandi	Last Updated By:	Shuvam Nandi
Date Created:	22 <sup>nd</sup> September, 2015	Date Last Updated:	22 <sup>nd</sup> September, 2015

Actor:	System
Description:	Updates the haze readings
Preconditions:	At least 3 hours must have elapsed since the haze readings were last updated
Postconditions:	NIL
Priority:	High
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"><li>1. The haze readings of different regions are retrieved from the NEA website.</li><li>2. These haze readings are stored in a fusion table.</li><li>3. If any haze readings are greater than 300, subscribers living in those regions are alerted via email.</li></ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

### 4.2. Record Weather Data

Use Case ID:	5.2		
Use Case Name:	Record Weather Data		
Created By:	Patricio	Last Updated By:	Patricio
Date Created:	22 <sup>nd</sup> September, 2015	Date Last Updated:	22 <sup>nd</sup> September, 2015

Actor:	System
Description:	Records the current weather conditions
Preconditions:	At least an hour must have elapsed since the weather data was last recorded.
Postconditions:	NIL
Priority:	Low

## [DontCrysis] Software Requirements Specifications

Frequency of Use:	NIL
Flow of Events:	1. The weather data is retrieved from a weather website.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

## 5. Map

### 5.1. View Map

Use Case ID:	6.1		
Use Case Name:	View Map		
Created By:	Mokshika Gaur	Last Updated By:	Mokshika Gaur
Date Created:	19 <sup>th</sup> September, 2015	Date Last Updated:	9 <sup>th</sup> October, 2015

Actor:	User
Description:	A map showing the locations of events is displayed
Preconditions:	NIL
Postconditions:	NIL
Priority:	Medium
Frequency of Use:	NIL
Flow of Events:	<ol style="list-style-type: none"><li>1. The user goes to the homepage of our web application.</li><li>2. A map is displayed that shows the locations of different events in Singapore.</li></ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL