CALAMITY: A Disaster Preparedness ApplicationUse Case Specification

Submitted to:

Asst. Prof. Ma. Rowena C. Solamo
Faculty Member
Department of Computer Science
College of Engineering
University of the Philippines, Diliman

Submitted by: Dalisay, Nephia Bianca Tan, Gene Audrey Wee, Filbert Heinrich

In partial fulfillment of academic requirements for the course CS 191 Software Engineering I of the 1st Semester, AY 2019-2020

This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

Unique Reference:

The documents are stored in the https://github.com/geneaudrey/Disaster-Preparedness/tree/master/02-Requirements-on-20Engineering/Project-on-20Deliverables

referenced with Disaster Preparedness App - 2.2 - Play Fire Scenario.

Document Purpose:

The purpose of this document is to elaborate on certain use cases by identifying the pre-conditions, post-conditions, and flow of events of the use case. The flow of events will be further clarified using an activity diagram and the flow of data will be illustrated using an entity-relation diagram. The use case that will be presented in this document is the 2.2 - Play Fire Scenario.

Target Audience:

The following are part of the target audience:

- People who like or are interested in playing games
- People who have little to average knowledge on disaster preparedness, or people who would like to refresh their knowledge on disaster preparedness
 - People who are interested in the development of the application

Revision Control:

Revision	Person	Version	Modification
Date	Responsible	Number	
09/20/19	Gene Tan	1.0	Initial Document
			Added Document Purpose, Target Audience, Use Case Name, Use Case Description, Preconditions
09/22/19	Gene Tan	2.0	Added Flow of Events
			Added Activity Diagram
09/23/19	Gene Tan	3.0	Added Entity-Relationship Diagram
			Added Relationships
			Modified postcondition and special requirements

System: Disaster Preparedness Gameplay System Version: 3.0 Use-Case Name: 2.2 Play Fire Scenario

Description: This use-case allows the player to play the fire scenario. More specifically, it allows the player to

make decisions to save his/ her friend who finds himself in a burning building. The story starts off with the player chatting with his friend through a messaging app. In the middle of their conversation, the player's friend starts smelling smoke. Certain decisions in the fire scenario will

unlock corresponding diary pages.

Preconditions: Player must finish the earthquake scenario first

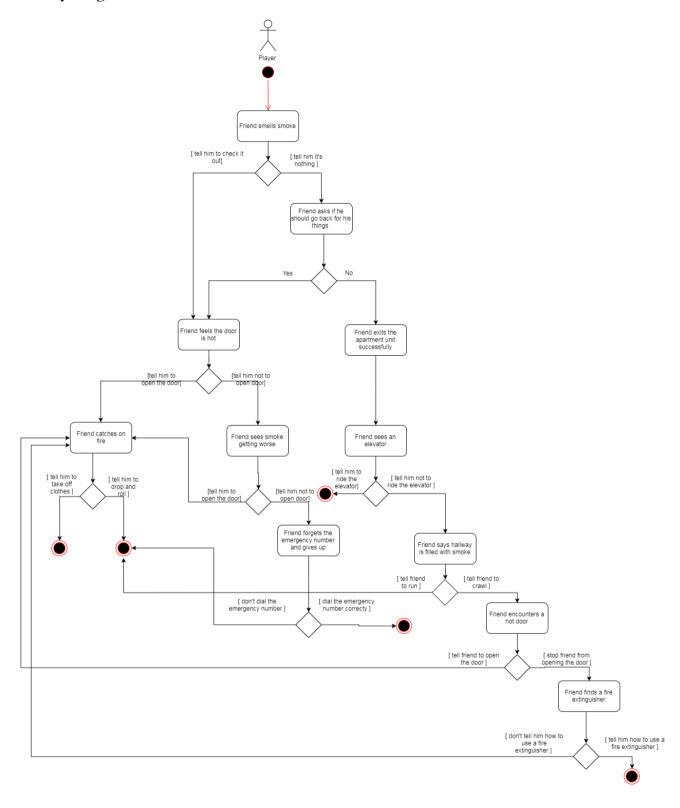
Flow of Events:

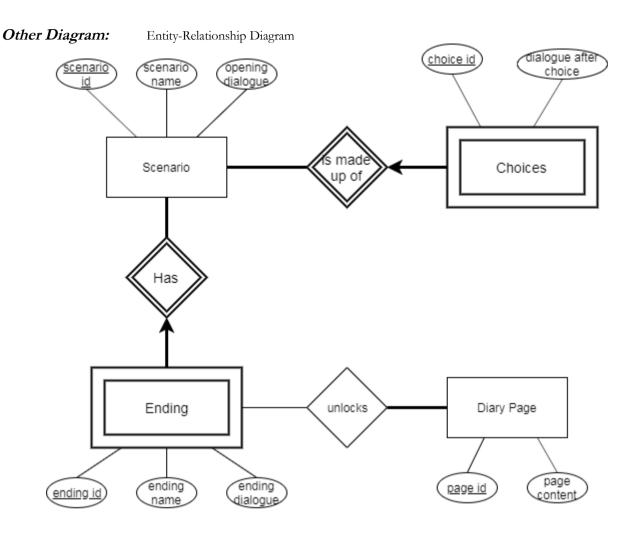
Scenario Name	Description
Scenario 1 (Basic Flow)	1. Player decides to tell his friend to check if something might be burning.
Good Ending 1: Character saves the	2. Player tells his friend to grab any wet cloth and find an exit immediately.
kid and gets out of the building successfully	3. Friend successfully exits his apartment unit.
,	4. Player tells his friend not to use the elevator and find the fire exit.
	5. Player tells his friend to crawl and cover his nose instead of making a run for it.
	6. Friend hears a kid screaming for help and decides to save the kid.
	7. Player tells his friend to wait before opening a hot door.
	8. Player successfully tells his friend how to use a fire extinguisher (pull, aim, squeeze, sweep)
Scenario 2 Good Ending 2: Character gets	1. Player doesn't tell his friend to check if something might be burning and/or tells his friend to go back for his laptop and ipad.
saved by the firefighters	2. Player stops his friend from opening the hot door.
	3. Player tells his friend to cover all openings instead of dashing out of the room.
	4. Player tells his friend to get far away from the fire and to close the doors behind him.
	5. Player successfully dials the emergency hotline for fires.
	6. Player tells his friend to open his window and wave something bright.
Scenario 3 Bad Ending 1: Character dies by	1. Player doesn't tell his friend to check if something might be burning and/or tells his friend to go back for his laptop and ipad.
getting badly injured.	2. Player doesn't stop his friend from opening the hot door.
	3. Friend catches on fire.
	4. Player tells friend to take off his clothes instead of dropping and rolling.
	5. Friend gets badly injured.
Scenario 4 Bad Ending 2: Character dies by	1. Player doesn't tell his friend to check if something might be burning and/or tells his friend to go back for his laptop and ipad.
inhaling too much smoke.	2. Player doesn't stop his friend from opening the hot door.
	3. Friend catches on fire.
	4. Player tells friend to drop and roll.
	5. Smoke starts to get worse and rapidly fills the room.
	6. Friend inhales too much smoke and faints.

System: Disaster Preparedness Gameplay System Version: 3.0 Group: 6

Scenario Name	Description
Scenario 5	1. Player chats with his friend through a messaging app.
Bad Ending 2: Character dies by	2. Player's friend starts smelling smoke.
inhaling too much smoke.	3. Player doesn't tell his friend to check if something might be burning or (not and) player tells his friend to go back for his laptop and ipad.
(Alternative way of getting bad	4. Player stops his friend from opening the hot door.
ending 2)	5. Player tells his friend to cover all openings instead of dashing out of the room.
	6. Player tells his friend to get as far away from the fire and to close the doors behind him.
	7. Player fails to call the emergency hotline for fires.
	8. Friend inhales too much smoke and dies.
Scenario 6	1. Player chats with his friend through a messaging app.
Bad Ending 2: Character dies by	2. Player's friend starts smelling smoke.
inhaling too much smoke.	3. Player decides to tell his friend to check if something might be burning.
	4. Player tells his friend to grab any wet cloth and find an exit immediately.
(Alternative way of getting bad ending 2)	5. Friend successfully exits his apartment unit.
criding 2)	6. Player tells his friend not to use the elevator and find the fire exit.
	7. Player tells his friend to make a run for it.
	8. Friend inhales too much smoke and faints before reaching the fire exit.
Scenario 7	1. Player chats with his friend through a messaging app.
Bad Ending 2: Character dies by	2. Player's friend starts smelling smoke.
inhaling too much smoke.	3. Player decides to tell his friend to check if something might be burning.
	4. Player tells his friend to grab any wet cloth and find an exit immediately.
(Alternative way of getting bad ending 2)	5. Friend successfully exits his apartment unit.
chang 2)	6. Player tells his friend not to use the elevator and find the fire exit.
	7. Player tells his friend to crawl and cover his nose instead of making a run for it.
	8. Friend hears a kid screaming for help and decides to save the kid.
	9. Player tells his friend to wait before opening a hot door.
	10. Player fails to tell his friend how to use a fire extinguisher (pull, aim, squeeze, sweep)
Scenario 8	1. Player chats with his friend through a messaging app.
Bad Ending 3: Character gets stuck	2. Player's friend starts smelling smoke.
in the elevator and dies by inhaling too much smoke.	3. Player decides to tell his friend to check if something might be burning.
too maen smoke.	4. Player tells his friend to grab any wet cloth and find an exit immediately.
	5. Friend successfully exits his apartment unit.
	6. Player tells his friend not use the elevator.
	7. Friend gets stuck in the elevator and gets light headed after waiting for a while.
	8. Firefighters arrive but they have trouble opening the elevator and it becomes too late for the friend.
Scenario 9	1. The story won't progress
Player doesn't finish the scenario	2. The player won't be able to unlock diary pages.
	3. The player won't be able to proceed to the other scenarios.

Activity Diagram of the Flow of Events:





Postcondition: NONE

Relationships:

- 1. has each scenario has one or more endings and each ending may only be
 - connected to one scenario (i.e.: an ending in the fire scenario won't be seen in
 - the earthquake scenario)
 - weak entity relationship between scenario and ending
- 2. is made up of each scenario is made up of one or more choices and each choice may only be
 - connected to one scenario (i.e.: a choice in the fire scenario won't be seen in
 - the earthquake scenario)
 - weak entity relationship between scenario and choices
- 3. unlocks endings may or may not unlock one or multiple diary pages and diary pages
 - can be unlocked by a minimum of one ending

Special Requirements:

NONE