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

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Unique Reference:

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

referenced with Disaster Preparedness App - 2.1 - Play Earthquake 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 2.1 - Play Earthquake 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
09/23/19	Nephia Dalisay	2.0	Added Use Case Name, Use Case Description, Preconditions
			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: 2.1 Play Earthquake Scenario

Description: This use-case allows the player to play the earthquake scenario. The player partakes the role of a

college student that lives in the 5th floor of a condominium. A magnitude 6 earthquake breaks out, and the player is expected to make decisions that will either bring her to safety or to harm. The environment of the game will be inside the character's mobile phone. Certain decisions in the

earthquake scenario will unlock corresponding diary pages.

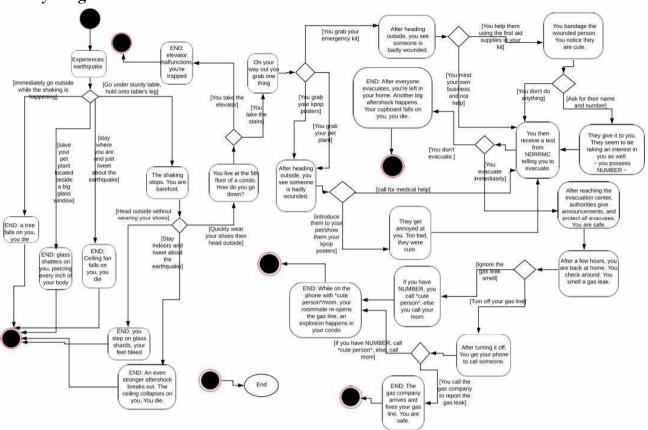
Preconditions: NONE

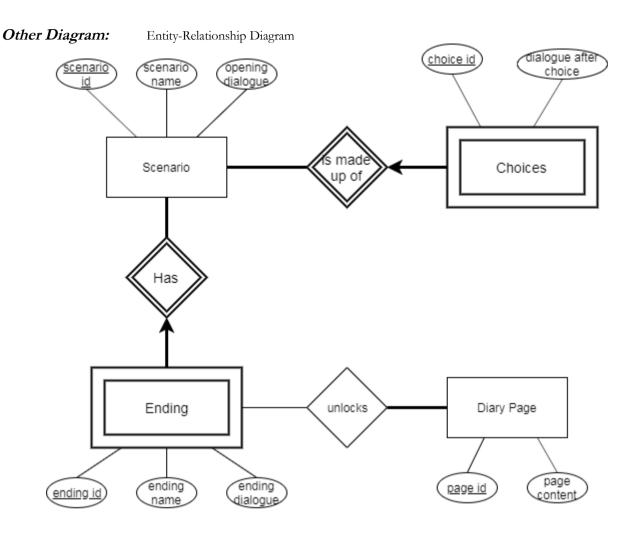
Flow of Events:

Scenario Name	Description
Scenario 1 (Basic Flow)	1. As the earthquake happens, character follows DROP, COVER, and HOLD.
Good Ending 1: Character is safe	2. After the quake stops, character wears shoes and then heads outside.
and got the number of *cute person*	3. On the way out, character grabs her emergency kit.
	4. Character takes the stairs to go down the condominium.
	5. Outside, character uses first aid supplies to help wounded person.
	6. While bandaging the wounded person, character asks for their name and number.
	7. After receiving NDRRMC announcing an evacuation, character evacuates immediately.
	8. After a few hours, character is back at home. Character turns off gas line immediately after smelling leaked gas.
	9. Character calls gas company to report leaked gas.
Scenario 2	1. As the earthquake happens, character follows DROP, COVER, and HOLD.
Good Ending 2: Character is safe	2. After the quake stops, character wears shoes and then heads outside.
but doesn't have number of *cute	3. On the way out, character grabs her emergency kit.
person"	4. Character takes the stairs to go down the condominium.
	5. Outside, character doesn't help wounded person despite having first-aid supplies.
	6. After receiving NDRRMC announcing an evacuation, character evacuates immediately.
	7. After a few hours, character is back at home. Character turns off gas line immediately after smelling leaked gas.
	8. Character calls gas company to report leaked gas.
Scenario 3	1. As the earthquake happens, character follows DROP, COVER, and HOLD.
Good Ending 3: Character is safe	2. After the quake stops, character wears shoes and then heads outside.
but *cute person* gets annoyed at them	3. On the way out, character grabs her pet plant/kpop posters.
	4. Character takes the stairs to go down the condominium.
	5. Outside, character tries to help wounded person, but only has a pet plant/kpop posters to offer.
	6. After receiving NDRRMC announcing an evacuation, character evacuates immediately.
	7. After a few hours, character is back at home. Character turns off gas line immediately after smelling leaked gas.
	8. Character calls gas company to report leaked gas.

Scenario Name	Description	
Scenario 4	1. As the earthquake happens, character doesn't mind, stays where she is, and then tweets about the earthquake.	
Bad Ending 1: Ceiling fan falls on character, character dies		
Scenario 5	1. As the earthquake happens, character decides to save her pet plant located beside a	
Bad Ending 2: Glass shatters on character, piercing every inch of her whole body	big glass window.	
Scenario 6	1. As the earthquake happens, character immediately bolts outside.	
Bad Ending 3: A tree falls on character, character dies		
Scenario 7	1. As the earthquake happens, character follows DROP, COVER, and HOLD.	
Bad Ending 4: Character steps on glass shards, character's feet bleed	2. After the quake stops, character immediately heads outside without wearing shoes.	
Scenario 8	1. As the earthquake happens, character follows DROP, COVER, and HOLD.	
Bad Ending 5: An even bigger aftershock occurs and the ceiling collapses on the character, character dies	2. After the quake stops, character stays indoors and tweets about the earthquake.	
Scenario 9	1. As the earthquake happens, character follows DROP, COVER, and HOLD.	
Bad Ending 6: Elevator	2. After the quake stops, character wears shoes and then heads outside.	
malfunctions, character is trapped	3. On the way out, character grabs her pet plant/kpop posters.	
	4. Character takes the elevator to go down the condominium.	
Scenario 10	1. As the earthquake happens, character follows DROP, COVER, and HOLD.	
Bad Ending 7: Another aftershock	2. After the quake stops, character wears shoes and then heads outside.	
happens, a cupboard falls on character, character dies	3. On the way out, character grabs her pet plant/kpop posters.	
,	4. Character takes the stairs to go down the condominium.	
	5. Outside, character tries to help wounded person, but only has a pet plant/kpop posters to offer.	
	6. After receiving NDRRMC announcing an evacuation, character doesn't evacuate and goes back to her condominium.	
Scenario 11	1. As the earthquake happens, character follows DROP, COVER, and HOLD.	
Bad Ending 8: Roommate re-opens	2. After the quake stops, character wears shoes and then heads outside.	
gas line, explosion happens	3. On the way out, character grabs her emergency kit.	
	4. Character takes the stairs to go down the condominium.	
	5. Outside, character doesn't help wounded person despite having first-aid supplies.	
	6. After receiving NDRRMC announcing an evacuation, character evacuates immediately.	
	7. After a few hours, character is back at home. Character turns off gas line immediately after smelling leaked gas.	
	8. Character doesn't call gas company and instead calls *cute person*	
Scenario 12	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