CognitV Solutions

VR Game Use Cases

Version 5.0

CognitV Solutions VR Game	Version: 6.0
Use Cases	Date: 04/12/2024

Revision History

Date	Version	Description	Author
10/01/2023	1.0	Initial pass	Anna, Ofuchi, Madi, Eric, David
10/8/2023	2.0	Going back through and fortifying use cases	Anna, Ofuchi, Madi, Eric, David
10/15/2023	3.0	Adding information and use cases about the Web Companion App	Anna, Ofuchi, Madi, Eric, David
01/16/2024	4.0	Revising/editing based on updated requirements	Anna
03/27/2024	5.0	Editing and updating Use Cases. Making suggestions on others.	Ofuchi
04/12/2024	6.0	Cleaning up Use Cases and making corrections	Ofuchi

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Use Cases

Use Case List

Primary Actor	Use Cases
Player	UC 1: Player talks to Avatar
	UC 2: Player gives speech
	UC 3: System disagrees with Player

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Use Case 1: Talk to NPC

UC ID and Name:	UC-1: Player Talks to Avatar			
Created By:	Eric Guyette Date Created: 10-01-2023			10-01-2023
Primary Actor:	Player		Secondary Actors:	System
Trigger:	The Player in	teracts with the	NPC.	
Description:	The Player wa	ants to talk to th	ne System so they can p	rogress in the level.
Preconditions:	PRE-1. Playe	r is in the profe	ssional setting level.	
Postconditions:	POST-1. Syst	em advances to	the next phase of the ga	ame.
Main Success	1. The Play	er walks up to	the System and interacts	s with it.
Scenario:	2. The Play	er speaks to the	e System.	
			Player that the meeting	is about to start
	4. Use Case			
Extensions:		es not speak to		
			again with the System t	
			so step 3 of the main flo	W.
		nsion ends.		
Priority:	High			
Frequency of Use:		Player has an average of 1 usage per level		
Business Rules:	<u>Unknown</u>			
Associated	Details:	D / /		
Information:	Property name	Data type	Purpose	
	Interact Text	TextMeshProU	UI Text changes when Play	yer interacts with NPC in order to mimic a
		GUI	conversation	
	Player Interaction	Boolean	Marks the Player interaction	on quest as complete
	Done			
	Interaction	Integer		to display based on how many times the
	Stage	* .		the NPC during the conversation.
	Interaction Mode	Integer	interaction	execute the Player interaction or the NPC
	MINICIACIOII			
Related Use Cases	UC 3			
Assumptions:	The Player will introduce themselves when prompted by the System then interact when			
T T T T T T T T T T T T T T T T T T T	they are done.			
Open Issues:				

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Use Case 2: Player Gives Speech

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UC ID and Name:	UC-2: Give Speech			
Created By:	Anna Jacobson	Date Created:	10-01-2023	
Primary Actor:	Player	Secondary Actors:	System	
Trigger:	The Player interacts with an object that indicates they are ready to begin the speech.			
Description:	The Player will need to give	a speech to an audience	so they can advance in the game.	
Preconditions:	PRE-1. The Player is current	ly playing the profession	nal setting level and has interacted	
	with an NPC.			
Postconditions:	POST-1. The System marks t	the speech task as comp	lete and advances the game to the	
	next phase.			
Main Success	1. When the Player is read	y, they interact with an	object that indicates they are starting	
Scenario:	their speech.			
	2. System starts the speech	time and locks Player	in place, and NPCs turn towards the	
	Player to watch.			
	3. When the Player is finis	hed with their speech, t	hey indicate that they have finished.	
	4. System stops the speech	timer.		
	System frees the Player	to complete the rest of t	their tasks.	
	6. Use case ends			
Extensions:	6a. Player hits the end spee	ch trigger before the n	ninimum time requirement	
	6a1. The Player's time is	stored in the System		
	6a2. System verifies that	the time is less than the	minimum time requirement	
	6a3. System encourages t	he Player to keep talkin	g and starts the timer again.	
	6a4. If the Player does no	t continue or hits the en	d speech trigger again, the System	
	will stop the timer and sto	ore the time.		
	6a5. System verifies the t	ime is less than the min	imum time requirement again	
	6a6. System deducts points from progress stats according to how short of time Player			
	was			
	6a7. System frees the Player to complete the rest of their tasks.			
	6a8. Extension ends.			
			end speech trigger before the	
	maximum time requiremen			
	6b1. System verifies that the maximum time requirement has been met			
	6b2. System cuts the play			
			or not finishing speech in time.	
	6b4. System frees the Pla	yer to complete the rest	of their tasks.	
	6b5. Extension ends.			
			nd speech trigger before maximum	
	time requirement and is no			
	6c1. System verifies that	-		
	6c2. System verifies that		eaking	
	6c3. System stops the speech timer 6c4. System deducts points from progress stats for not properly concluding the			
	, ,	its from progress stats to	or not properly concluding the	
	speech.			
	6c5. System frees Player to complete the rest of their tasks.			
D''	6c6. Extension ends.			
Priority:	High			
Frequency of Use:	Average of 1 usage per level			
Business Rules:	Unknown			
Associated	Details:			

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Information:	Property Data type name		Purpose
	Timer Text	TextMeshProU GUI	UI text that shows how long the speech timer has been on
	Is On	Boolean	Starts the timer
	Current Time	Turrent Time Float Counts in seconds and milliseconds how long it has been since the timer was turned on. This is plugged into Timer Text.	
	Speech Done	Boolean Stops the timer and marks the Player's speech quest as complete.	
Related Use Cases:	N/A		
Related Use Cases.			
Assumptions:	Player will interact with an object and talk for a certain amount of time		
Open Issues:	Locking the Player in place has not yet been implemented. System storing the speech time		
	and scoring progress stats has not yet been implemented.		

Use Case 3: System Disagrees With Player

UC ID and Name:	UC-3: Disagree			
Created By:	Ofuchi Akpom	1	Date Created:	10-01-2023
Primary Actor:	Player		Secondary Actors:	
Trigger:	The System wa	alks up to the F	Player.	
Description:	The System is	disagreeing wi	th the Player's sentime	nts.
Preconditions:	PRE-1: A situa	ation is present	ed (HR rolls out new po	olicy).
Postconditions:	POST-1. Syste	m ends the lev	el.	
Main Success	1. The Syste	em presents a c	ompany policy.	
Scenario:	2. The Syste	em walks up to	the Player after the pol	icy is done being presented.
	3. The Syste	em asks the Pla	yer what they think abo	out the policy.
	4. The Playe	er shares their s	sentiments with the Syst	tem.
	5. The Syste	em disagrees w	ith the Player.	
		er responds to t		
			the Player then leaves t	3
	1		e next phase of the gam	ie.
	9. Use case ends.			
Extensions:	4a. Player does not respond to System:			
	4a1.Player has the option to interact and end the conversation and return to step 8 of			
		the normal flow.		
		ktension ends.		
Priority:	High			
Frequency of Use:	Average of 1 u	sage per level		
Business Rules:	Unknown			
Associated	Details:			
Information:	Property name	Data type	Purpose	
	Interact Text	TextMeshProU	UI Text changes when Play	ver interacts with NPC in order to mimic a
		GUI	conversation	or morned with the morned to minime t
	Nav Mesh	NavMeshAgent		s location and move the NPC towards them,
	Agent	Τ.,	avoiding objects in their pa	
	Interaction Stage	Integer		o display based on how many times the he NPC during the conversation.
	Suge		They of thus interacted with t	are 111 C daring the conversation.

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	Interaction Mode NPC	Integer	Tells the script whether to execute the Player interaction or the NPC interaction Marks the NPC interaction task as complete
	Interaction Done	boolean	Walks the FVI C interaction task as complete
Related Use Cases:	UC 1		
Assumptions:	Player finishes their speech		
Open Issues:		·	

Business Rules

Not available yet