## **Functional requirements**

Name	FR#1	Catch pacman		
Resume	Stop or catch a pacman when you click on it			
Input				
Output	The Pacman is stopped but is still in the game zone and the rebounds that other pacmans have against			
	him continue to be counted			

Name	FR#2	Load game	
Resume	The conf	figuration of a new game is loaded from a text file or from a pre-saved game	
Input	The name of the file corresponding to a difficulty level or the name of a pre-saved game		
Output	The gam	e is loaded and ready to play	

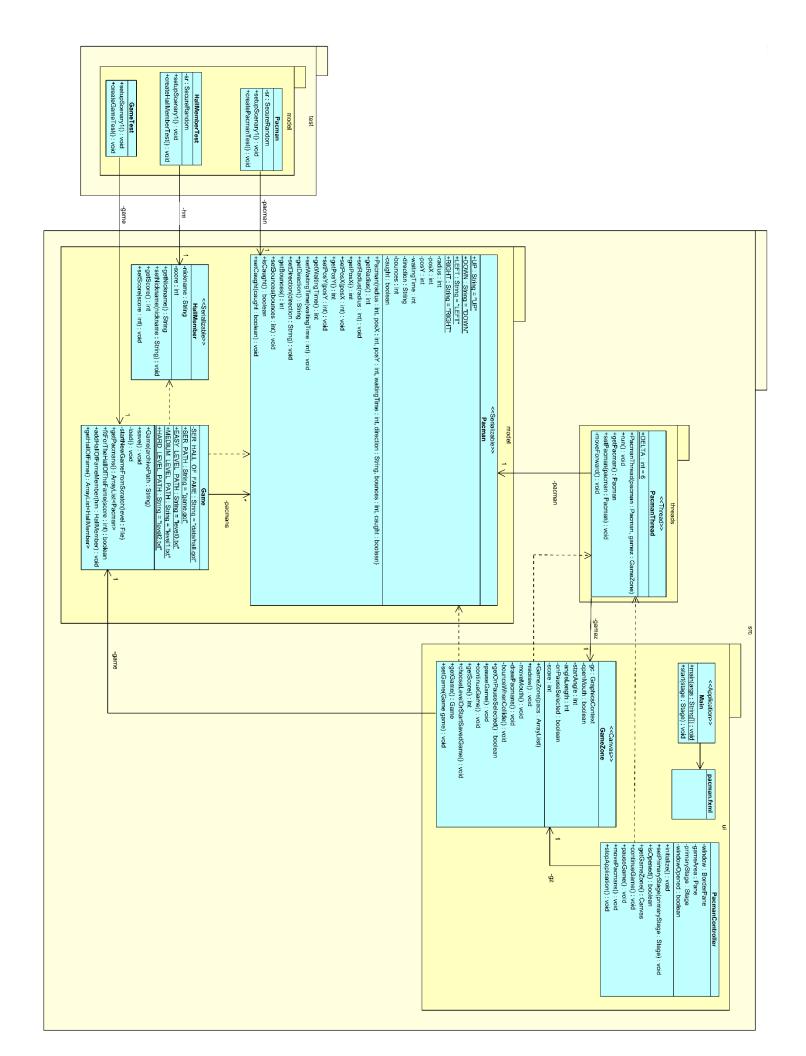
Name	FR#3	Save game		
Resume	Save the current state of the game in a serialized file for later accessibility			
Input	The name of the file corresponding to the game			
Output	The game is saved in a serializable file			

## Non-functional requirements

ID	Description
NFR#1	Save the information of the last saved game and hall of fame, so that the program is persistent
NFR#2	Create the interface using the javafx tool

## Traceability

ID	Functional requirement	Method	Class
FR#1	Catch pacman	VerifyPacmanCatched.handle	GameZone.
			VerifyPacmanCatched
FR#2	Load game	load	Game
		Game	
		startNewGameFromScratch	
		chooseLevelOrStartSavedGame	GameZone
FR#3	Save game	save	Game



Scenaries				
Name	Class	Scenary		
setupScenary1()	PacmanTest	Empty		
setupScenary1()	GameTest	Empty		
setupScenary1()	HallMemberTest	Empty		

Design of test cases

Objective of the test:		Verify that all the parameters assigned to the POJOs(HallMember and Pacman) are correctly assigned			
Class	Method	Scenary	Input	Result	
Pacman	Pacman	setupScenary1	<ul> <li>radius = sr.nextInt();</li> <li>posX = sr.nextInt();</li> <li>posY = sr.nextInt();</li> <li>waitingTime = sr.nextInt();</li> <li>direction = Pacman.DOWN;</li> <li>bounces = sr.nextInt();</li> <li>boolean caught = sr.nextBoolean();</li> </ul>	A new Pacman has been successfully created. Each of the attributes of the new Pacman has correctly assigned the information passed by parameter.	
HallMember	HallMember	setupScenary1	<ul><li>String nickname = "Rubiu5";</li><li>int score = sr.nextInt();</li></ul>	A new HallMember has been successfully created. Each of the attributes of the new HallMember has correctly assigned the information passed by parameter.	

Objective of the test:		Verify that the Game constructor can read a level file when the path that is passed as a parameter is valid and that it does not read it when it is not			
Class	Method	Scenary	Input	Result	
Game	Game	setupScenary1	• path = "path";	The archive has not been found so the level has not been loaded	
Game	Game	setupScenary1	<ul><li>path = Game. HARD_LEVEL_PATH</li></ul>	The archive was found in the data directory and has been successfully loaded	