

IT-SEP4C-S18 - SERIOUS GAME

PROJECT DESCRIPTION

THE FRANGOVERS

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Serious Game Project Description



BACKGROUND DESCRIPTION

A game, as a form of recreation, which can be used for educational purposes, or spare time enrichment, has been known since around 2600 BC (Royal Game of Ur, Iraq). The games generally spread among people has developed to be more complicated from that time on.

Rules, goals challenges and player interactions are some of the examples that became parts of games. Playing against the opponent was more entertaining because it was challenging, required higher skills, and the joy from winning was more satisfying.

To achieve the meaningful game experience, games needed to be defined by rules, to be understood clearly by the players. Wining conditions were needed to determine winner from looser, or to determine draw.

Some games were pushed so far, that certain level of skill and strategy was required to play for each participant. Fulfilling those rules ensures best game experience.

French sociologist Roger Caillois (Caillois, 1953) defined game as an activity that needs to have the following characteristics: fun, separate, uncertainty, non-productive, governed and fictitious.

The first video games can be dated to the early 50s, when the technology became advanced enough for scientists to design simple games and simulations using electronic circuits. Until that point, the computers were mainly used to solve mathematical problems. The discovery of CRT lead to tremendous rise of game development; however, it was not until the 70s and 80s that the games reached the mainstream popularity with arrival of arcade games and gaming consoles.

According to *The Conversation*, video games have great educational potential in addition to their entertainment value. Games designed for specific problem, or to teach a specific skill have been very successful, since they are motivating, engaging, and provide rewards and chance to improve.

Gameplay involves repeated actions that strengthen the brain cell connections underlying memory and learning. Games as Tetris or Othello activate brain areas which control decision making. Some games require real-time action and activate areas, which control sensory movement.



DEFINITION OF PURPOSE

The purpose of this project is to develop an application that will help people with training their short-term memory. It should do this in a form that is both entertaining and appealing to young people.

PROBLEM STATEMENT

We want young people to have fun in their free time while still getting some benefits in terms of short-term memory improvement.

Today, young people see memory training exercises as boring and unattractive. We need to find a way to change this. We need to find something that will help them train their short-term memory in a fun way. We need to make this solution available for them at almost any time, whether they are home, or bored outside. We need to make this solution appealing to them, while keeping it effective.

DELIMITATION

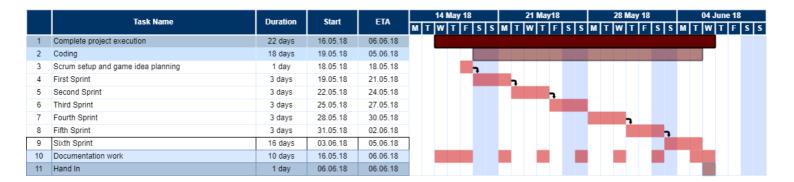
This solution can be used by only one person at the time. The solution will be made only on computer and mobile devices. The solution won't necessarily improve long-term memory.

CHOICE OF MODELS AND METHODS

What	Why	Which	
Partial problem	Why study this problem?	Which models/theories are	
		expected to be used to solve the	
		problem?	
How to make memory	Because making training fun will	We will make a serious game in	
training fun for young	convince them to train more	using Unity 5	
How to make	Short term-memory can be very	We will include several types of	
something to train	useful to young people	puzzles in the game	
short-term memory			
How can we make the	This will give them opportunity	We will make the game available for	
solution available at	to train whenever they feel like	both computer and mobile devices	
almost any time	it, or if they are bored.		



TIME SCHEDULE



Risk Assessment

RISKS	DESCRIPTION	L	S	PERSON IN	CONTROL
				Danger	RECOMMENDATIONS
MOBILE	SOMETHING CAN'T BE	3	3	ALL GROUP MEMBERS	Ensure that functionality that is
PROBLEMS	IMPLEMENTED ON MOBILE				TO BE IMPLEMENTED IS COMPATIBLE
	PLATFORM				BEFORE IMPLEMENTING
NOT ENOUGH	GAME COULDN'T BE FINISHED	2	3	ALL GROUP MEMBERS	Don't overestimate speed of our
TIME	ON TIME				IMPLEMENTATION
NOT	GAME IS TOO RESOURCE	2	2	ALL GROUP MEMBERS	TRY NOT TO IMPORT OVER
OPTIMIZED	HEAVY				COMPLICATED ASSETS
ASSETS	SOME ASSETS NEED	3	2	ALL GROUP MEMBERS	DO INITIAL ASSET RESEARCH BEFORE
	COULDN'T BE FOUND				PROCEEDING TO IMPLEMENTATION



SOURCES OF INFORMATION

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