CS 408 Product Backlog

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Problem Statement

In most mobile games, players were mostly sitting down to play the game. This style of gaming has often been regarded as being bad for health. A lot of games are also single player games where players do not interact with others. However, a game that is challenging, encourages social interaction, fun yet involves moving around is not only beneficial to our health, but also satisfying as well.

Background Information

Target Users

Mobile phone users, typically children, teens, and young adults.

Similar Applications

Psych: A multiplayer party game where users can craft an answer to each question. The options that everyone crafted is paired to the correct answer and players have to pick which one they think is right. Your goal is to trick people to think your response is believable and also guess the correct option.

Drawful:

Multiplayer party game which challenges players to draw weird and funny prompts. Users would then have to guess based on the drawings, what the correct prompt is.

Limitations

A smart phone with camera is required.

Environment

Android Studio will be used to build our Android app and Java is the language we are going to use. GIT will be used for source control. MySQL will be applied for database. Socket.io will be used to support real-time communication.

Requirements

Backlog Id	Functional Requirements	Hours	Status
1.	As a user, I would like to be able to insert my unique username	3	Complete
2.	As a user, I would like to be able to select my faction (eg. monsters, humans)	3	Complete

3.	As a user, I would like to choose an avatar from my faction	4	Complete
4.	As a user, I would like to be able to set the time limit for each round	2	Complete
5.	As a user, I would like to be notified if I'm the player setting the hint	3	In-progress :moved to sprint 2
6.	As a user, I would like to be able to set a hint for the specific round	3	Complete
7.	As a user, I would like to have a timer for when that round ends	3	Complete
8.	As a user, I would like to have a table to keep track of the scores of all players	2	Complete
9.	As a user, I would like to have group battle between races (if time allows)	5	-
10.	As a user, I would like to know if there are any other players in the same area (if time allows)	5	-
11.	As a user, I would like to be able to upload a photo if i found the object	6	Complete
12.	As a user, I would like to approve the correct picture if i am the player who gave the hint	3	Complete
13.	As a user, I, as the player who gives the hint, would like to give more hints if no players are able to guess out the correct object	2	Sprint 2
14.	As a user, I, as the player who gives the hint, would like to decide the round winner based on time spent when two or more players uploaded the correct pictures	2	Sprint 2
15.	As a user, I would like to see pictures uploaded by other players	3	Complete
16.	As a user, I would like to receive information once I join the game	3	Complete
17.	As a user, I would like to have a table to keep track of the scores of all teams for team battle (if time allows)	2	-
18.	As a user, I would like to leave the game in single battle by clearing my score and notifying other players when the game is in progress	3	Sprint 2

19.	As a user, I would like to leave the game in team battle by notifying other team members when the game is in progress (if time allows)	3	1
20.	As a user, I, as the player who gives hint, would like to upload correct picture when none other players are able to find the right object	3	Complete
21.	As a user, I would like to be notified when hint changed or search area changed	3	Sprint 2
22.	As a user, I would like to clear game history when current round is over	3	Sprint 2

	Non-Functional Requirements	
1.	As a user, I would like to have a fluid interface	
2.	As a software engineer, the system must support up to 8 users in a single game.	
3.	As a software engineer, the system must be able to support multiple games at the same time.	
4.	As a software engineer, I want the service to be available all time.	
5.	As a user, when the game has started, other users would not be able to access the same game.	
6.	As a user, I would like the game to be user-friendly.	
7.	As a user, I would like to have a secure connection to the game	
8.	As a user, I would like to have my location data securely stored	

Use Cases

Backlog Id	Description
1.	Name: Insert user name
	Action: Click start game Enter User name

	 Click Ok Click Yes when prompted to confirm System Response: A dialog pops up to ask for username
	Confirmation dialog pops upDialog closes
	• Dialog closes
2.	Name: Select a race
	Action: Click on a box with the specific race you want to choose Click next to continue
	System Response: • 2 Boxes with different races are shown on the screen • Screen changes to avatar selection
3.	Name: Select an avatar
	Action: Select an avatar Click next to continue
	System Response: Different avatars are shown on the screen Once it has been selected by another user, the avatar is grayed out
4.	Name: Set a time limit
	Action: Click "Set time" command Enter a number in terms of minutes Confirm the setting
	System Response: Time limit setting dialog pops up Wait for user to enter a number Dialog pops off
5.	Name: Be notified if I am the player to set hint
	Action: • Receive system message notifying that I (username) am the player to set hint for this round
	System Response: • Notify the user to set the hint by generating a system message visible to the public

6.	Name: Set a hint for a specific round
	Action: Click ""Set a hint" command Enter a hint of an object within the search area Confirm the hint
	System response: Hint setting dialog pops up Wait for user to set a hint Dialog closes Generating public message to inform other players the hint for this round
7.	Name: Time the current round
	Action: • Receive a system message when the current round has 1 minute I System response:
	Notify the user that there is only 1 minute left
	Action: Click the "Player Scores" command Click the "OK" command to quit System response: Show all the players' scores in a table
	Highline the user current score
9.	Action: Choose a group and send a battle request Click "Begin" to begin a group battle Click "Player Scores" to check the scores Quit group battle
	System response:
10.	Name: Check players in the same game
	Action: • Click "Other players" command

	Click "X" command
	System response: • Pop up a list of players or empty list if no player is in the same game • Pop off the list
11.	Name: Upload picture
	 Action: Find the hint described object, and take a picture of the object Click "Upload picture" button Select picture from phone camera roll Click "Confirm" to upload the picture
	System response: Have access to phone camera roll Quit camera roll and upload selected picture
12.	Name: Approve correct picture
	Action: Look through all uploaded pictures in result page Determine correct picture Select the correct picture and click "approve" button
	System response: Once the round is finished, players will be redirected to result page Wait for hint giver to approve correct picture The approved picture wins the round
13.	Name: Give more hints
	 Action: Click "Extra hint" button Give more hints if other players have trouble finding the described object Click "Submit" to send message
	System response: Pop up extra hint dialog when "extra hint" button is clicked Wait for user to give more hints Close dialog and send message
14.	Name: Decide round winner when two or more correct pictures uploaded
	Action: Look through all uploaded pictures in result page Determine correct picture The uploaded picture in result page is order by uploading time, the first uploaded picture is order first

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	System response: Redirect players to result page Wait for hint giver to approve correct picture Select the first uploaded correct picture and click "approve" button The approved picture wins the round
15.	Name: See pictures uploaded by other players
	Action: • When time is up, all players will be redirected to result page • Able to see pictures uploaded by other players in result page
	System response: Once a player join the game, the system will automatically allow the player to receive public message, and redirect the player to result page when game is over
16.	Name: Be notified when joining the game
	Action: • Receive a notification when the user joins the game
	System response: • Notify the user when the user joins the game
17.	Name: Track team scores
	Action: Click "Team Score" command Swipe through different teams Click "X" command
	System response: Pop up a table of team score Move to the table of different teams Pop off the table
18.	Name: Leave game in single battle
	Action: Click "Leave game" button Click "Confirm" to leave game
	 System response: Pops up confirm dialog when "leave game" button is clicked Remove the player from the game when "confirm" button is clicked, return to game when "cancel" button is clicked Close confirm dialog Clear the player's score in database Generate system message to inform other players in the same game

19.	Name: Leave the game in team battle
	Action: Click "Leave game" button Click "Confirm" to leave game
	 System response: Pops up confirm dialog when "leave game" button is clicked Remove the player from the game when "confirm" button is clicked return to game when "cancel" button is clicked Close confirm dialog Generate system message to inform other team members in the same game, and the team score will not be affected
20.	Name: Upload correct picture when no one can find it
	 Action: As the player who sets the hint and no one else is able to find correctick "upload picture" button Select picture from phone camera roll Click "confirm" to upload picture
	System response: Have access to player's phone camera roll Wait for player to select picture Close connection with phone camera roll and upload select picture which is visible to everyone in the game
21.	Name: Be notified for hint or search area change
	Action: Receive a system message that the hint is changed Receive a system message that the search area is changed
	System response: Notify the user that the hint is changed Notify the user that the search area is changed
22.	Name: Clear game history Action: Players cannot go back to result page when a round is over System response: When a round is over, pictures on result page are cleared and will be stored in database