Charades Game Class Diagram

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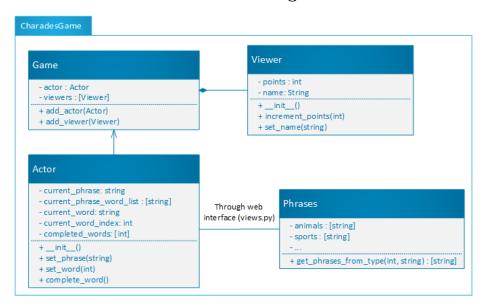
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1 Charades Game Class Diagram



2 Description of Class Diagram

This is an additional architecture embedded into the Django website. These classes will manage the information that needs to be stored for each player as well as checks to ensure the session has the correct number of players.

2.1 Actor

2.1.1 Variables

- **current_phrase**: Contains the current phrase that the Actor is attempting to act. Type: String.
- current_phrase_word_list: A list of the words within the phrase. This will be created using the python split() function which separates a string by spaces. This variable will save time having to look up the word each time to display it. Type: string list.
- **current_word**: Contains the current word in the phrase that is being acted. This is an integer that relates to word. Type: int.
- current _word _index: Holds the current index of the word being acted / guessed. Type: int.
- **completed_words**: A list of integers representing the words that have been completed. A word is completed when it correctly guessed or time has elapsed. Type: int list.

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2.1.2 Functions

- init : Resets the variables to default values.
- set phrase: updates the phrase variable with a new string.
- **set word**: updates the word variable with a new int.
- complete word: adds a word (int) to the completed word list.

2.2 Viewer

2.2.1 Variables

- points: The number of points accumulated by the viewer. Type: int.
- name: The name of the viewer. Type: String.

2.2.2 Functions

- init : Resets the variables to default values.
- increment points: increase the points variable by an integer.
- set name: updates the name variable with a String.

2.3 Game

2.3.1 Variables

- actor: The actor in the game. (There is only one actor per game. Type: Actor
- viewers: A list of the viewers in the game. Type: Viewer list.

2.3.2 Functions

- add actor: Updates the actor variable with a new Actor.
- add_viewer: Adds a Viewer to the viewer list variable. There will be a check to ensure the same viewer is not being added again as well as ensure the maximum number of viewers is not exceeded.

2.4 Phrases

2.4.1 Variables

- animals: All phrases that are animals that can be acted. Type: string list.
- sports: All phrases that are sports that can be acted. Type: string list.

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2.4.2 Functions

• get_phrase_from_type: A function that get a number of phrases from a type (string list of phrases). The int is the number to retrieve, the string is the type to get. The string are returned in a string list from the function. The function will raise a RuntimeError if the type is unknown (this will be handled neatly in the web interface upon access).