

Charades Class Diagram

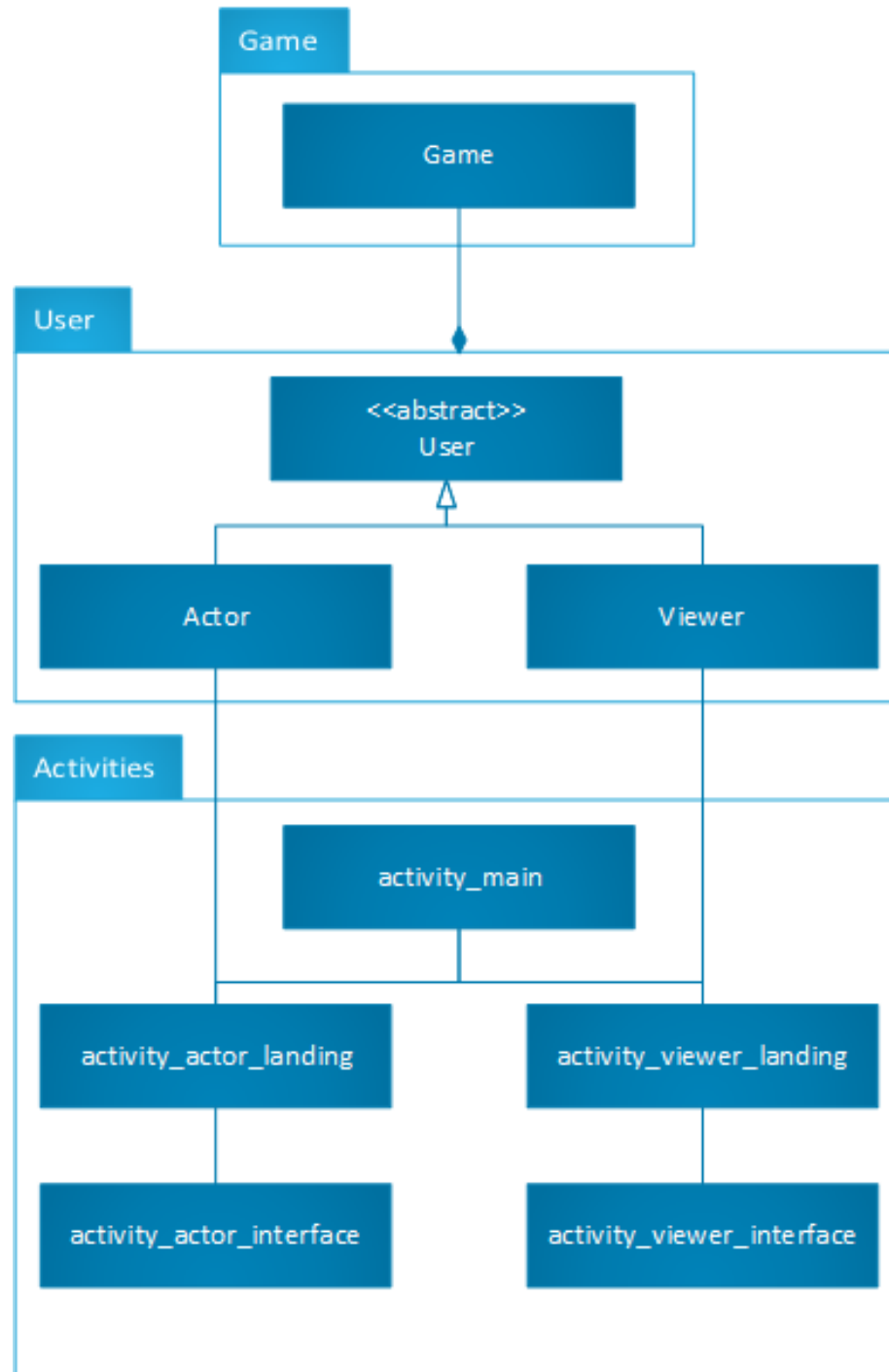
elo9@aber.ac.uk

March 10, 2017

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1 Charades Class Diagram



2 Description of Class Diagram

2.1 Game

The Game package is currently a single class implementation. This will expand when more features are designed and built for the core game functionality. In essence, this class is designed to control the flow of information in the system. The class will deal with storing the current game state, as well as sending and receiving messages between the Viewers and Actors.

2.2 User

The User package models the possible users of the system. There is a User abstract class containing commonalities between all users and two concrete classes that inherit from this. The concrete classes represent the known users in the system the Actor, and the Viewer.

Actor: The Actor will have the ability to pick a phrase or word and they will only see the actor specific interface.

Viewer: The Viewer will have the ability to guess the currently selected word or phrase and they will only see an instance of the viewer specific interface.

2.3 Activities

Activities are the android equivalent of graphical users interfaces. Each activity corresponds to a different screen on the app.

activity_main: The main menu activity will show the splash screen for the Charades Game and give the choice between using the device as an Actor or a Viewer these choice will take you to the actor/viewer_landing activities respectively.

activity_actor_landing: The initial landing screen for the actor device. This screen will display the rules for the actor and display a button to advance to choosing a phrase screen.

activity_viewer_landing: The initial landing screen for the viewer device. This screen will display the rules for the viewer and will only continue to the viewer interface when the actor has chosen a topic (this will be prompted by the server in a later iteration).

activity_actor_interface: The Actor interface will only be shown to the Actor in the the Staging Area, and will allow them to choose the phrase and current word to act out. The Actor will also be informed if the word or phrase they are acting has been guessed correctly. If the word they are acting has been guessed correctly, they will be asked to choose a new word from the remaining un-guessed words in the phrase.

activity_viewer_interface: The Viewer interface will display the current word in the phrase that the viewer is attempting to guess, as well as the genre of the phrase (e.g. book, film, television show, ect.). This interface will give the option to guess either the word or the whole phrase and the page will contain

a submit button to submit a guess. The interface will inform the viewer if the guess is correct or not. The interface will instruct the viewer to change places with the actor if they guess the phrase correctly.