

Hi there!

My name is Jenna Choo and I wrote this Android application.

When you open the app, you can see all the badges that you can get from Khan Academy. You can scroll down and up to see all the badges. When you click on the image you can see a detailed information about the particular badge.

What has been done:

I get the Json string and parse it into a hashtable.

- For badges, I use a hashtable of String keys(names of the badges) and String arrays (contains extended description, points, icon urls, category, and "name"s)
- For categories, I use a hashtable of Integer keys(category number)and String arrays (contains label, icon src and description)

Once I have the parsed information I use Picasso library to download images from the server.

Lastly, I display the images.

- The images change color when the user touches the icons.
- The screen is scrollable.
- I tried to take into account of whether the screen is vertical or horizontal.
- The images work as buttons that displays more detailed view
- The popup window is also scrollable. The user can either click outside of the window or close button to go back to the main activity.

You can click on the menu/refresh to get the most recent information. (It is there for debugging purposes)

What needs to be done:

Currently, the app only works when it has internet connection. I was working on downloading images and saving them into the internal storage of the phone so that the app works when there is no internet connection.

Also, I did not have enough time this week, but if it is possible I want to add in two more features

- I want to add in Login option so that the users can see what badges they already have. I will probably color code images.
- I also wanted to add in sort by option where the user can select how the badges are sorted on the screen. (by category, alphabetical, etc.)

Normally, what I would have done is to save the images and the json string in resource folders unless the information on the server is updated often. I was not sure what was expected so I downloaded the string from the web every time to get the most updated information.

I really want to work on the options above to make the application better, but I will need a little more time. Let me know if you are willing to give me a little more time. Also, please let me know if there is a better option of saving the images on the phone.

Feel free to contact me at schoo@andrew.cmu.edu if you need any clarifications.

Thanks!