

# P5 Report

Nick Werle

March 25, 2017

## 1 Preamble

Files will be submitted per instructions to pilot, and all work will be available on github at: [https://github.com/NickWer/CEG3900\\_P5](https://github.com/NickWer/CEG3900_P5) in two days.

## 2 Task 1

Deliverables: See devDocs.pdf and userDocs.pdf, see images 1-4 for screenshots.

Status report: I believe my user docs are sufficient for this game. I believe my dev docs, while they are not super in depth, provide an adequate high level view of the application's classes. They do not address specific implementation details however.

Experience: The user docs were not bad. The game is kind of fun but the difficulty is low and then becomes somewhat impractically difficult after a certain point. Very hard to play while the phone is plugged in. The dev docs were kind of a pain, but realistically it's not too terrible to understand all the source code.

## 3 Task 2

Deliverables: See screenshots 5-8. My MS Azure account is linked to my wright state email address, werle.3@wright.edu

Status Report: The application works as expected. Uploads and recalls images without hiccup.

Experience Report: Building the APK was very easy. Honestly registering to MS Azure was harder, because of a glitch with wright state's single sign on. I had to go incognito to get it to work. Other than that, and trying to find my account key, it was not a terrible experience. A promising platform, for sure, with a generous trial offer.

## 4 Task 3

Deliverables: See screenshots 9-12. Google cloud platform account is linked to my private throwaway gmail address.

Status Report: It mostly works. I tried running one of the later parts of the tutorial that allows users to upload images and it didn't like it, but I honestly spent literally 2-3 hours on this task because of some misleading information regarding setting up the authentication credentials needed for the google cloud SDK. So basically, I'm just trilled that it works at all - and in fact, it works perfectly fine for everything that I tested *except* image uploads.

Experience report: As I just mentioned, this one was particularly challenging for me. Took a decent bit to get the environment set up correctly, and then I was receiving a mysterious 401 error that would cause my application to crash before it had even started. I had honestly written up a several page, with screenshot explanation of the situation that I was going to submit instead, when I found the solution. The issue was that you need to set up credentials for the application, but when you go to do so, it says you don't need any credentials and that the default will work just fine. What was not clear was that you had to do something to enable those default credentials (which doesn't seem very default to me...). Anyways, it works now, which is what matters I suppose.

## 5 Task 4

Deliverables: See screenshots 13-16

Status Report: My tagging system works and updates live using firebase. The rendering is a bit janky but I think it is sufficient given the scope of the assignment. Really it's nothing fancy but it works more or less as I would expect

Experience Report: I didn't think this one was too bad, although at one point I tried to integrate java 8 and it was kind of a disaster because a bunch of compatibility issues arose, and it ended up just being easier to write the for loops. Honestly I found firebase to be extremely easy to integrate into the application. It's very intuitive.

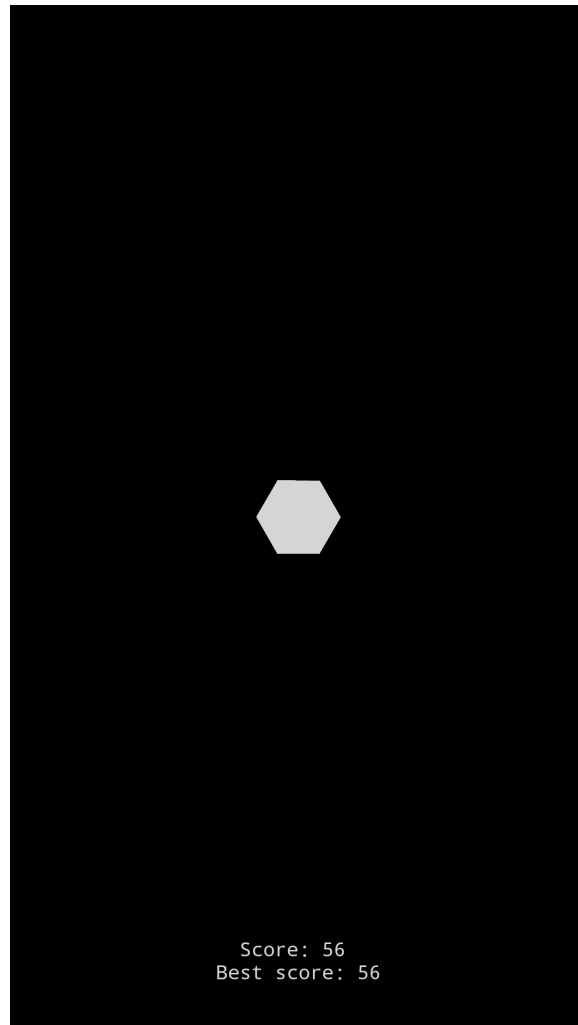


Figure 1: Task 1 - Starting screen



Figure 2: Task 1 - A game has begun - the center hexagon is much smaller



Figure 3: Task 1 - Part 1 of 2 - Demonstrating how a chain can remove more than just 3 blocks

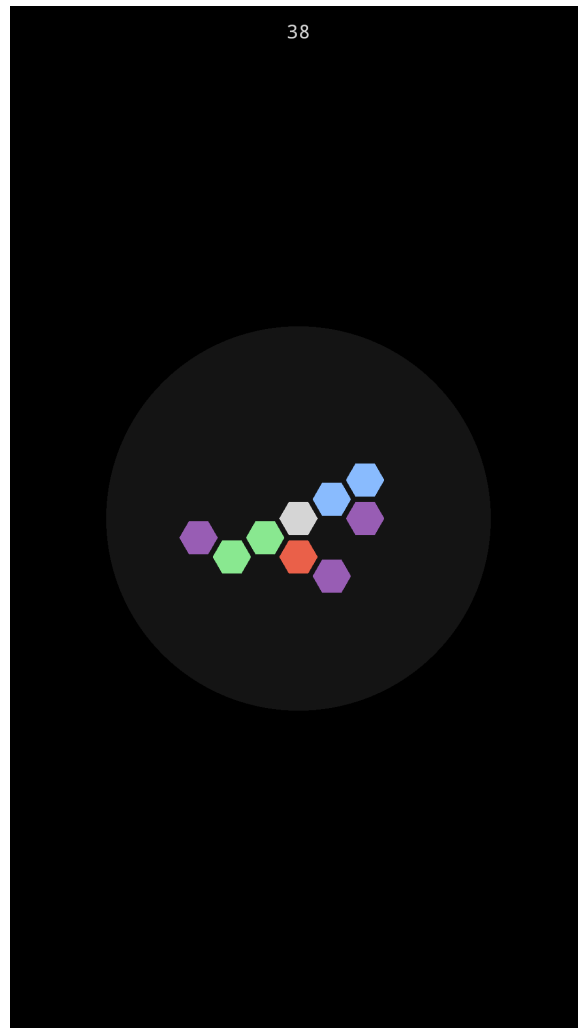


Figure 4: Task 1 - Part 2 of 2 - Demonstrating how a chain can remove more than just 3 blocks

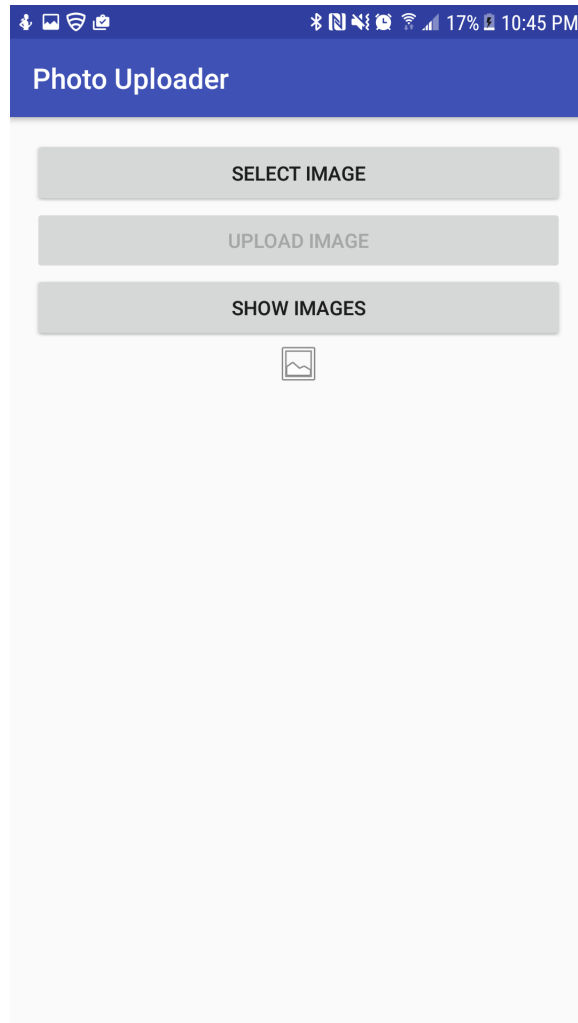


Figure 5: Task 2 - Starting screen

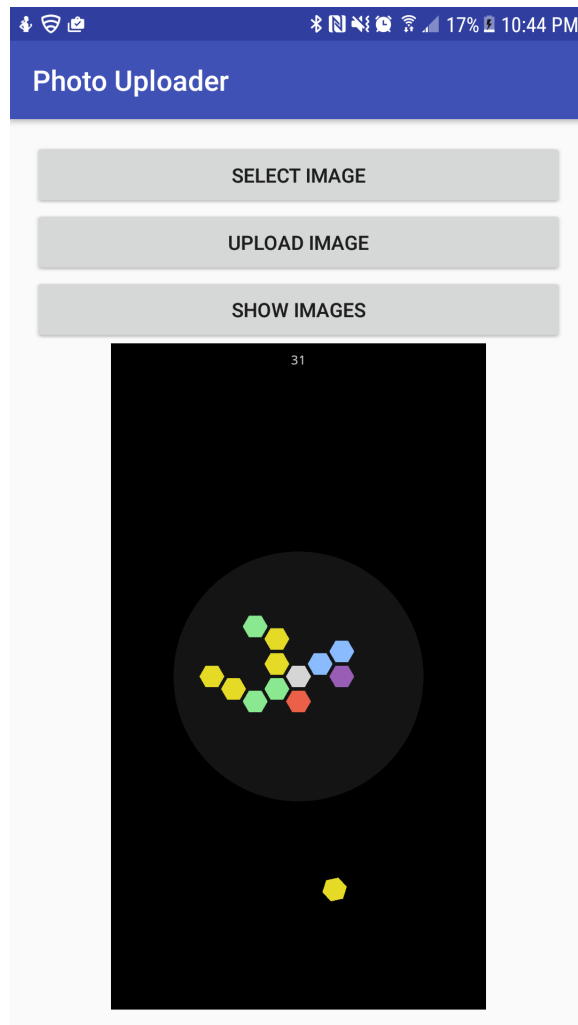


Figure 6: Task 2 - An image about to be uploaded



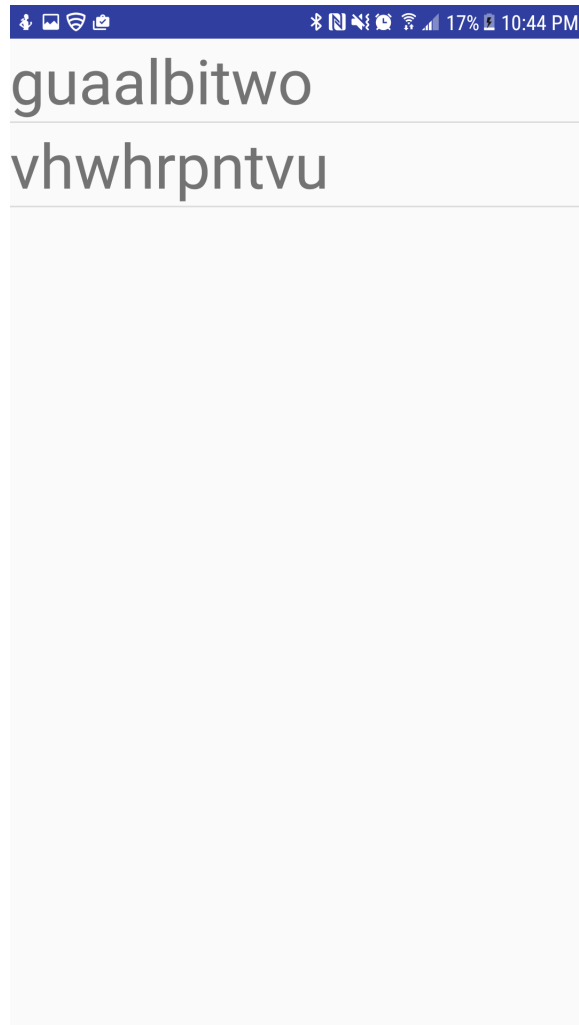


Figure 7: Task 2 - List of images that have been uploaded

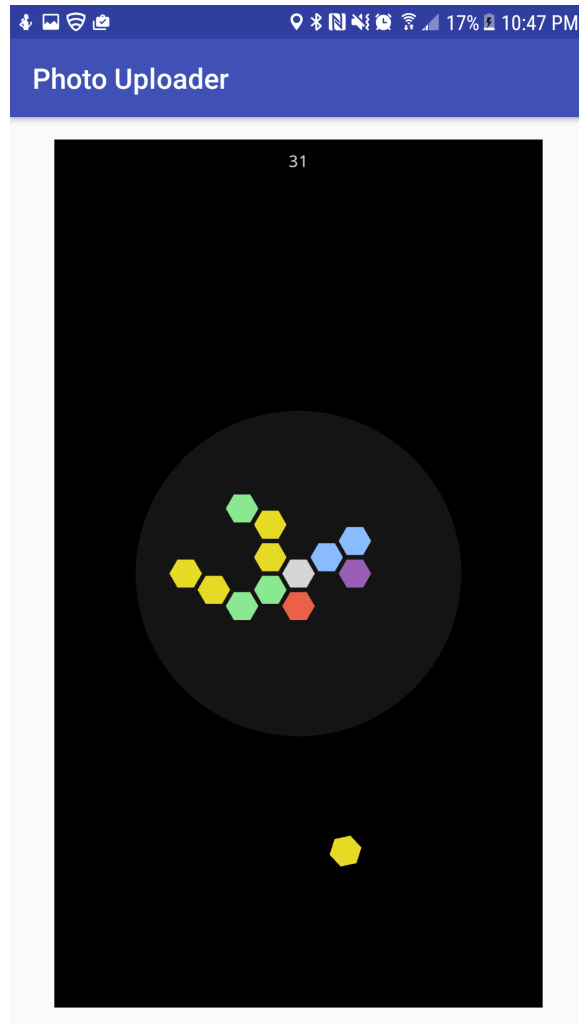


Figure 8: Task 2 - The uploaded image

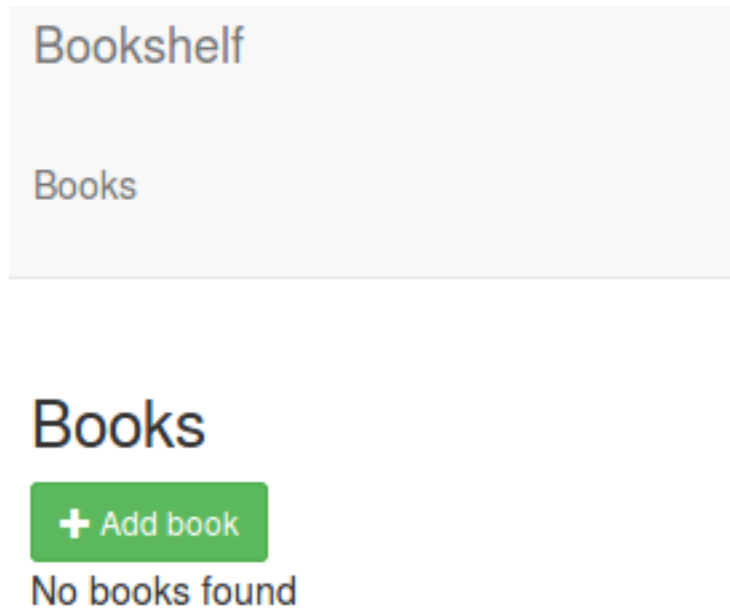


Figure 9: Task 3 - The initial screen

## Add book

**Title**

**Author**


**Date Published**


**Description**

Save

Figure 10: Task 3 - Creating a book

# Book

 Edit book

 Delete book



Game of thrones 1324

By George

asdfas

Added by Anonymous

Figure 11: Task 3 - The book I created

Bookshelf

Books

### Add book

**Title**

wrqwe

**Author**

qwer

**Date Published**

wq23

**Description**

234234

**Cover Image**

Browse...

10.31.16.werle.DFDmid.png

Save

Figure 12: Task 3 - The image upload portion. Almost works, but there's an exception when I hit submit that lacks an obvious solution, given that the tutorial seems to think it should work out of the box.

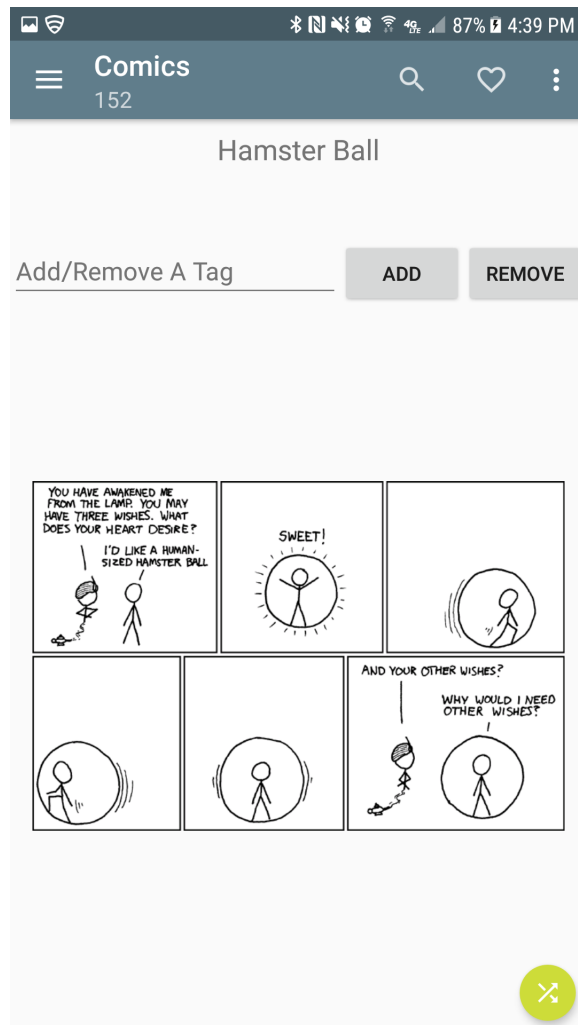


Figure 13: Task 4 - A random comic with no tags

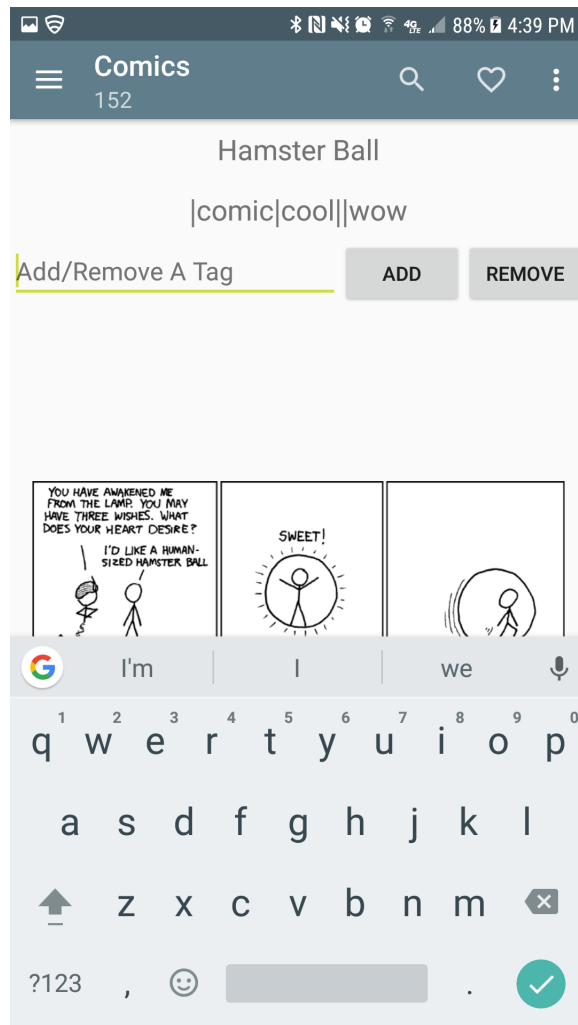


Figure 14: Task 4 - The comic but with three tags



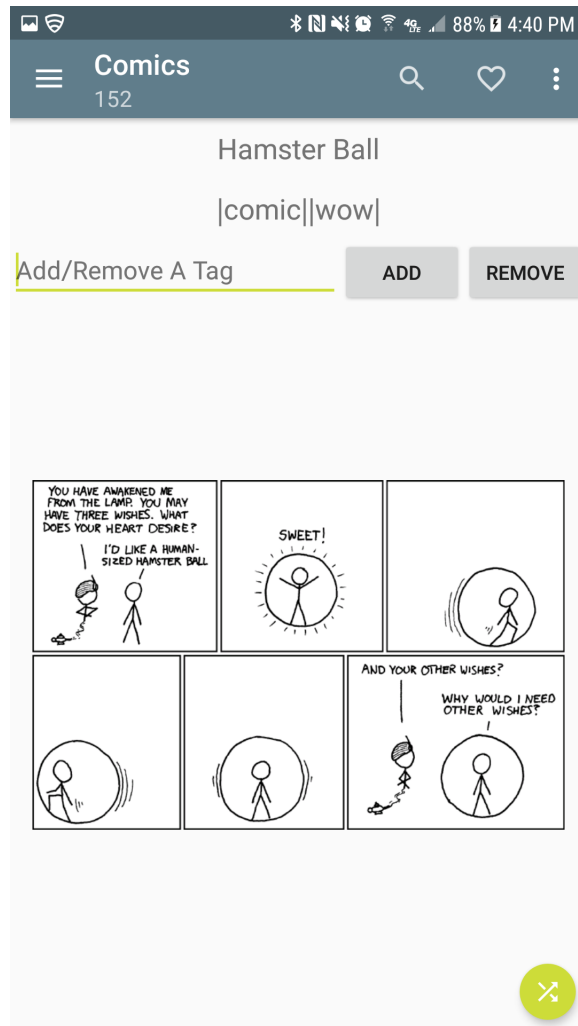


Figure 15: Task 4 - Removed the tag "cool" by typing "cool" into the box and hitting remove

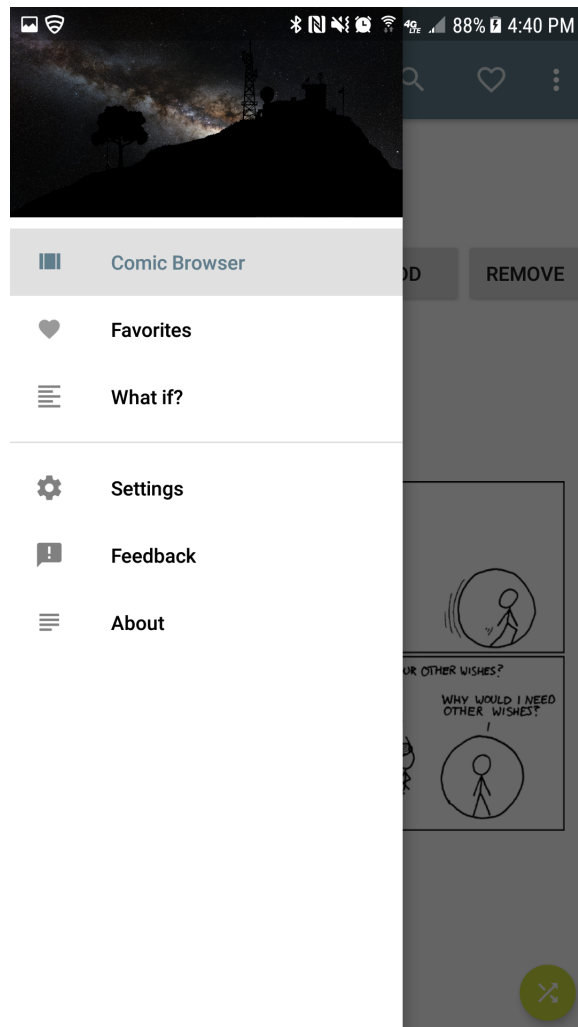


Figure 16: Task 4 - Showing that the other functionality is the same