Project 4 - Network Project
CSCE 4623 – Mobile Programming – Fall 2017
Due Date – Friday, December 1st, 11:59 PM CT

Task: For this project you will get to choose between three similar projects, each with a network focus.

Expected Operation:

1) Web Browser Screen Reader – Recreate a web browser using the WebView and the HTTP Connection classes provided. Have a speaker icon that you can press which will read the text on the screen out to the user.

2) Web Album viewer – Use the HTTP Connection class to download content from a photo album (e.g. Imgur) and show each image and its text in its own screen, allowing swipe operations to flip through the album.

3) List Unroller – Use the HTTP Connection Class to download a clickbait-type list where you must click through several pages. Download each page and create an aggregate page from the resulting list.

The application will be tested on the Google Nexus 6 Phone. If that does not work, I will attempt operation on the Nexus 6 emulator.

Rubric: The project will be graded according to the following rubric:

Category	Description	Percentage
Pass Given Tests	There are a set of example scenarios in this document which you must implement.	70%
User Experience	How your application looks and feels to the user is important. Consider how you want to implement the UX to appeal to your user.	10%
Coding Comments & Style	Android uses XML and Java as its primary languages. Use the appropriate coding styles (e.g. lowerCamelCase for variables and methods). Comment functions with a description about their behavior, any parameters, any return values, and any shared variables which it manipulates.	10%
Report	A simple, one- or two-page report. The report should have the project name (e.g. To-Do List), a picture of the application, a short description of what you did, and the outcomes (e.g. Did it pass all example tests, if not, why not, your UX design methodology, etc...). The report should use the template found on the website. Failure to do so will result in missed points.	10%

Table 1: Grading Rubric

Tests: For tests, you will provide me in your report with three URLs that you know work with your application. I will make sure that they are able to perform as specified below:

- Web Browser Reader – I will put the URL into the textbox and navigate to the page. I will then press the speak button and verify that it speaks only what is on the page to me (that is, no speaking aloud HTML type language)
- Album Viewer – I will put the URL into the textbox and navigate to the album. The album should be separated into multiple views such that I can swipe between images placed into ImageViews and see the alternate text if any exist.
- List Unroller – I will navigate to the page and verify that the list is unrolled to show all of the pages in a single page rather than a set of pages you have to navigate to

Submission: You should zip your project directory and submit it through the online submission portal at `csce.uark.edu/~ahnelson/file_upload/`. The directory is password protected using the same username and password that we have used for the class.