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CIS 4350 – Android Mobile Development

Lab 7 – Simple Browser

Android Project: Simple\_Browser\_V1

**Overview**

A simple web browser that takes a URL as input and attempts to fetch the data. It expects HTML.

**PseudoCode**

Create Layout and setup widgets

Enable JavaScript

While(!BackButton){

ImageButton listens for click

onClick, ImageButton gets String from EditText

Parse String

Hide Keyboard

Execute AsyncTask to HTML Data passing String

Display HTML in WebView

}

**Notes**

In manifest immediately before <application> insert

<uses-permission android:name="android.permission.INTERNET" />

Enable JavaScript - webView.getSettings().setJavaScriptEnabled(true);

getWindow().requestFeature(Window.FEATURE\_PROGRESS); // call before adding content

**Resources**

Widgets

EditText – Get User input

ImageButton – onClickListener to start AsyncTask to get web data

WebView – Display web content

Relative Layout

Button and EditText take height 25dp and fill parent width

WebView gets rest of space

Border.xml – draws rectangle border around EditText

Method - String parseForHTTP(String)

Checks to see if user input starts with http:// or https://,

If not put it at beginning of string

Private Class GetHTML

AsyncTask that gets HTTP Resource and uses InputStream, BufferedReader, and StringBuilder to construct the HTML content for the WebView