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1  /**
2   * Brocku.java
3   * Brock Butler
4   * Connects to the Brock University registrars' website to obtain course
5   * information from the current timetable
6   * Created by James Grisdale on 2013-02-24
7   * * Copyright (c) 2013 Sea Addicts. All rights reserved.
8   */
9
10 package edu.seaaddicts.brockbutler.coursemanager;
11
12 import java.io.BufferedReader;
13 import java.io.InputStreamReader;
14 import java.net.URI;
15 import java.util.ArrayList;
16 import org.apache.http.client.HttpClient;
17 import org.apache.http.client.methods.HttpGet;
18 import org.apache.http.impl.client.*;
19 import org.apache.http.HttpResponse;
20 import android.os.AsyncTask;
21 //Using AsyncTask to do operations off the main thread
22 public class Brocku extends AsyncTask<Void, Void, ArrayList<MasterCourse>> {
23
24     /* doInBackground - connects to Brock University's registrar's office website to
25     gather
26     * information on courses being offered, then returns an arraylist of MasterCourse
27     * objects which hold the data for all offerings at Brock.
28     */
29     protected ArrayList<MasterCourse> doInBackground(Void... Void) {
30         String codes[] = new String[74];
31         BufferedReader in = null;
32         String info = new String();
33         String substring = new String();
34         MasterCourse course;
35         boolean done;
36         ArrayList<MasterCourse> courseList = new ArrayList<MasterCourse>();
37         courseList.ensureCapacity(8000);
38         //test = "working";
39         try{
40             HttpClient client = new DefaultHttpClient();
41             HttpGet request = new HttpGet();
42             URI BTimeTable = new URI(
43                 "http://www.brocku.ca/registrar/guides/returning/timetable/a_get_subj.php?subj=C
44                 OSC");
45             request.setURI(BTimeTable);
46             HttpResponse response = client.execute(request);
47             in = new BufferedReader(new InputStreamReader(response.getEntity().getContent
48                 ()));
49             for (int i=0; i<3; i++) in.readLine();
50             for (int i=0; i<74; i++){
51                 info = in.readLine();
52                 codes[i] = info.substring(19,23);
53             }//retrieving all subjects
54             in.close();
55             for (int h=0; h<codes.length ; h++){
56                 done = false;
57                 BTimeTable = new URI(
58                     "http://www.brocku.ca/registrar/guides/returning/timetable/a_get_subj.php?subj
59                     =" + codes[h]);
60                 request.setURI(BTimeTable);
61                 response = client.execute(request);
62                 in = new BufferedReader(new InputStreamReader(response.getEntity().getContent
63                     ()));
64                 for (int i=0; i<98; i++) {in.readLine();}
65                 info = in.readLine();
66                 //for each subjects get all course offering information
67                 if (info.length()<50){
68                     while(!done){
69                         course = new MasterCourse();
70                         substring = info.substring(24, info.length() - 5);
71                         course.id = substring;

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65         for (int i=0; i<2; i++) {in.readLine();}
66         info = in.readLine();
67         substring = info.substring(123, 127);
68         course.subj = substring;
69         substring = info.substring(128, 132);
70         course.code = substring;
71         in.readLine();
72         info = in.readLine();
73         substring = info.substring(26,info.length() - 7);
74         course.desc = substring;
75         for (int i=0; i<4; i++) {in.readLine();}
76         info = in.readLine();
77         substring = info.substring(24,26);
78         course.dur = substring;
79         info = in.readLine();
80         substring = info.substring(24,info.length() - 5);
81         course.type = substring;
82         info = in.readLine();
83         substring = info.substring(24,info.length() - 5);
84         course.sec = substring;
85         info = in.readLine();
86         substring = info.substring(24,30);
87         course.days = substring;
88         info = in.readLine();
89         substring = info.substring(24,info.length() - 5);
90         course.time = substring;
91         info = in.readLine();
92         substring = info.substring(24,info.length() - 5);
93         if (info.substring(24,26).equals("<a"))
94             substring = info.substring(94, info.length()-9);
95         course.location = substring;
96         info = in.readLine();
97         if (info.length()>16)
98             substring = info.substring(9,info.length() - 5);
99         else substring = " ";
100        course.instructor = substring;
101        in.readLine();
102        in.readLine();
103        info = in.readLine();
104        courseList.add(course);
105        if (info.length() <20){
106            info = in.readLine();
107            done = true;
108        }
109    }
110 }
111 in.close();
112 }
113 }
114 //if there's an error return the error information in a course object
115 catch (Exception e){
116     info = e.toString();
117     course = new MasterCourse();
118     course.id = info;
119     courseList.add(course);
120 }
121 return courseList;
122 }
123
124 //not used
125 protected void onPostExecute(MasterCourse course){
126     posttest(course);
127 }
128
129 //not used
130 public MasterCourse posttest(MasterCourse course){
131     return course;
132 }
133 }
134

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