

```
1 package edu.seaaddicts.brockbutler.coursemanager;
2
3 import java.util.ArrayList;
4
5 import android.app.Activity;
6 import android.os.Bundle;
7 import android.util.Log;
8 import android.util.SparseBooleanArray;
9 import android.view.View;
10 import android.view.View.OnClickListener;
11 import android.widget.AdapterView;
12 import android.widget.AdapterView.OnItemClickListener;
13 import android.widget.ArrayAdapter;
14 import android.widget.Button;
15 import android.widget.LinearLayout;
16 import android.widget.ListView;
17 import android.widget.Spinner;
18 import edu.seaaddicts.brockbutler.R;
19
20 public class AddCourseActivity extends Activity {
21
22     private static final String TAG = "AddCourseActivity";
23
24     //private static final int DATE_DIALOG_ID = 0;
25     private static final int VISIBLE = 0;
26     //private static final int INVISIBLE = 4;
27     private static final int GONE = 8;
28
29     ArrayList<String> mLecs;
30     ArrayList<String> mLabs;
31     ArrayList<String> mTuts;
32     ArrayList<String> mSems;
33
34     ArrayList<Offering> mLecsOfferings;
35     ArrayList<Offering> mLabsOfferings;
36     ArrayList<Offering> mTutsOfferings;
37     ArrayList<Offering> mSemsOfferings;
38
39     private String mSubject;
40     private String mCode;
41
42     private Course mCourse;
43
44     private Button mSaveButton;
45     private Button mCancelButton;
46
47     private CourseHandler mCourseHandle;
48     ArrayList<Offering> mOfferings;
49
50     private Spinner mSubjectSpinner;
51     private Spinner mCodesSpinner;
52
53     private ListView mLecsListView;
54     private ListView mSemsListView;
55     private ListView mTutsListView;
56     private ListView mLabsListView;
57
58     @Override
59     protected void onCreate(Bundle savedInstanceState) {
60         super.onCreate(savedInstanceState);
61         setContentView(R.layout.activity_add_course);
62         mCourseHandle = new CourseHandler(this.getApplicationContext());
63         init();
64     }
65
66     /*
67     * Initialize all views and sets Button OnClickListener.
68     */
69     private void init() {
70
71         mSaveButton = (Button) findViewById(R.id.add_course_save_button);
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72     mCancelButton = (Button) findViewById(R.id.add_course_cancel_button);
73
74     mSubjectSpinner = (Spinner) findViewById(R.id.add_course_subjects_spinner);
75     try {
76         mSubjectSpinner.setAdapter(new ArrayAdapter<String>(this,
77             android.R.layout.simple_spinner_dropdown_item,
78             mCourseHandle.getSubjects()));
79     } catch (Exception e) {
80         e.printStackTrace();
81     }
82
83     mCodesSpinner = (Spinner) findViewById(R.id.add_course_codes_spinner);
84     mSubjectSpinner.setOnItemSelectedListener(new OnItemSelectedListener() {
85         public void onItemSelected(AdapterView<?> arg0, View arg1,
86             int arg2, long arg3) {
87             try {
88                 mSubject = arg0.getItemAtPosition(arg2).toString();
89                 mCodesSpinner.setAdapter(new ArrayAdapter<String>(
90                     AddCourseActivity.this,
91                     android.R.layout.simple_spinner_dropdown_item,
92                     mCourseHandle.getCodes(mSubject)));
93             } catch (Exception e) {
94                 e.printStackTrace();
95             }
96         }
97
98         public void onNothingSelected(AdapterView<?> arg0) {
99             // Do nothing.
100         }
101     });
102     mCodesSpinner.setOnItemSelectedListener(new OnItemSelectedListener() {
103
104         public void onItemSelected(AdapterView<?> arg0, View arg1,
105             int arg2, long arg3) {
106             mCode = arg0.getItemAtPosition(arg2).toString();
107             mCourse = mCourseHandle.getCourseOfferings(mSubject, mCode);
108             mOfferings = mCourse.mOfferings;
109
110             String s;
111             mLecs = new ArrayList<String>();
112             m Labs = new ArrayList<String>();
113             mTuts = new ArrayList<String>();
114             mSems = new ArrayList<String>();
115
116             mLecsOfferings = new ArrayList<Offering>();
117             m LabsOfferings = new ArrayList<Offering>();
118             mTutsOfferings = new ArrayList<Offering>();
119             mSemsOfferings = new ArrayList<Offering>();
120
121             for (int i = 0; i < mOfferings.size(); i++) {
122                 s = mOfferings.get(i).mType;
123
124                 // Some offerings don't have any of what we are looking for,
125                 // so check length to make sure.
126                 if (s.length() > 2) {
127                     String ss = s.substring(0, 3).trim();
128                     if (ss.equalsIgnoreCase("lec")) {
129                         mLecs.add(s + ", SEC " + mOfferings.get(i).mSection);
130                         mLecsOfferings.add(mOfferings.get(i));
131                     } else if (ss.equalsIgnoreCase("lab")) {
132                         m Labs.add(s + ", SEC " + mOfferings.get(i).mSection);
133                         m LabsOfferings.add(mOfferings.get(i));
134                     } else if (ss.equalsIgnoreCase("tut")) {
135                         mTuts.add(s + ", SEC " + mOfferings.get(i).mSection);
136                         mTutsOfferings.add(mOfferings.get(i));
137                     } else if (ss.equalsIgnoreCase("sem")) {
138                         mSems.add(s + ", SEC " + mOfferings.get(i).mSection);
139                         mSemsOfferings.add(mOfferings.get(i));
140                     }
141                 }
142             }

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143
144     // Check if offerings available, and add ListView to display if
145     // so.
146     LinearLayout lec_layout = (LinearLayout) findViewById(R.id.layout_add_lecs);
147     LinearLayout lab_layout = (LinearLayout) findViewById(R.id.layout_add_labs);
148     LinearLayout tut_layout = (LinearLayout) findViewById(R.id.layout_add_tuts);
149     LinearLayout sem_layout = (LinearLayout) findViewById(R.id.layout_add_sems);
150
151     if (mLecs.size() > 0) {
152         lec_layout.setVisibility(VISIBLE);
153         mLecsListView = (ListView) findViewById(R.id.add_course_add_lecs);
154         mLecsListView.setAdapter(new ArrayAdapter<String>(
155             getApplicationContext(),
156             android.R.layout.simple_list_item_multiple_choice,
157             mLecs));
158     } else {
159         lec_layout.setVisibility(GONE);
160     }
161     if (mLabs.size() > 0) {
162         lab_layout.setVisibility(VISIBLE);
163         mLabsListView = (ListView) findViewById(R.id.add_course_add_labs);
164         mLabsListView.setAdapter(new ArrayAdapter<String>(
165             getApplicationContext(),
166             android.R.layout.simple_list_item_multiple_choice,
167             mLabs));
168     } else {
169         lab_layout.setVisibility(GONE);
170     }
171     if (mTuts.size() > 0) {
172         tut_layout.setVisibility(VISIBLE);
173         mTutsListView = (ListView) findViewById(R.id.add_course_add_tuts);
174         mTutsListView.setAdapter(new ArrayAdapter<String>(
175             getApplicationContext(),
176             android.R.layout.simple_list_item_multiple_choice,
177             mTuts));
178     } else {
179         tut_layout.setVisibility(GONE);
180     }
181     if (mSemsOfferings.size() > 0) {
182         sem_layout.setVisibility(VISIBLE);
183         mSemsListView = (ListView) findViewById(R.id.add_course_add_sems);
184         mSemsListView.setAdapter(new ArrayAdapter<String>(
185             getApplicationContext(),
186             android.R.layout.simple_list_item_multiple_choice,
187             mSems));
188     } else {
189         sem_layout.setVisibility(GONE);
190     }
191 }
192
193 public void onNothingSelected(AdapterView<?> arg0) {
194 }
195 });
196
197 mSaveButton.setOnClickListener(new OnClickListener() {
198     public void onClick(View v) {
199         Course c = new Course();
200         c.mSubject = mSubject;
201         c.mCode = mCode;
202         c.mInstructor = mCourseHandle.getCourseOfferings(mSubject,
203             mCode).mInstructor;
204
205         SparseBooleanArray sbal, sba2, sba3, sba4;
206         if (mLecsListView != null) {
207             sbal = mLecsListView.getCheckedItemPositions();
208             for (int i = 0; i < mLecsListView.getCount(); i++) {
209                 if (sbal.get(i) == true) {
210                     c.mOfferings.add(mLecsOfferings.get(i));
211                     Log.d(TAG, "Added: " + mLecsOfferings.get(i).mSubj
212                         + " " + mOfferings.get(i).mCode + ", Type "
213                         + mOfferings.get(i).mType + ", Section "

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214         + mOfferings.get(i).mSection
215         + " to Offerings");
216     }
217 }
218 }
219
220 if (mLabsListView != null) {
221     sba2 = mLabsListView.getCheckedItemPositions();
222
223     for (int i = 0; i < mLabsListView.getCount(); i++) {
224         if (sba2.get(i) == true) {
225             c.mOfferings.add(mLabsOfferings.get(i));
226             Log.d(TAG, "Added: " + mLabsOfferings.get(i).mSubj
227                 + " " + mOfferings.get(i).mCode + ", Type "
228                 + mOfferings.get(i).mType + ", Section "
229                 + mOfferings.get(i).mSection
230                 + " to Offerings");
231         }
232     }
233 }
234
235 if (mTutsListView != null) {
236     sba3 = mTutsListView.getCheckedItemPositions();
237
238     for (int i = 0; i < mTutsListView.getCount(); i++) {
239         if (sba3.get(i) == true) {
240             c.mOfferings.add(mTutsOfferings.get(i));
241             Log.d(TAG, "Added: " + mTutsOfferings.get(i).mSubj
242                 + " " + mOfferings.get(i).mCode + ", Type "
243                 + mOfferings.get(i).mType + ", Section "
244                 + mOfferings.get(i).mSection
245                 + " to Offerings");
246         }
247     }
248 }
249
250 if (mSemsListView != null) {
251     sba4 = mSemsListView.getCheckedItemPositions();
252
253     for (int i = 0; i < mSemsListView.getCount(); i++) {
254         if (sba4.get(i) == true) {
255             c.mOfferings.add(mSemsOfferings.get(i));
256             Log.d(TAG, "Added: " + mSemsOfferings.get(i).mSubj
257                 + " " + mOfferings.get(i).mCode + ", Type "
258                 + mOfferings.get(i).mType + ", Section "
259                 + mOfferings.get(i).mSection
260                 + " to Offerings");
261         }
262     }
263 }
264
265 if (c.mSubject != null) {
266     try {
267         mCourseHandle.addCourse(c);
268         Log.d("# ADDED OFFERINGS:", "" + c.mOfferings.size());
269         for (int i = 0; i < c.mOfferings.size(); i++) {
270             Log.d(TAG, "Added: " + c.mOfferings.get(i).mSubj
271                 + " " + mOfferings.get(i).mCode + ", Type "
272                 + mOfferings.get(i).mType + ", Section "
273                 + mOfferings.get(i).mSection
274                 + " to Offerings");
275         }
276         onBackPressed();
277     } catch (Exception e) {
278         e.printStackTrace();
279     }
280 }
281 }
282 });
283
284 mCancelButton.setOnClickListener(new OnClickListener() {

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```
285         public void onClick(View v) {
286             onBackPressed();
287         }
288     }));
289 }
290 }
291
```