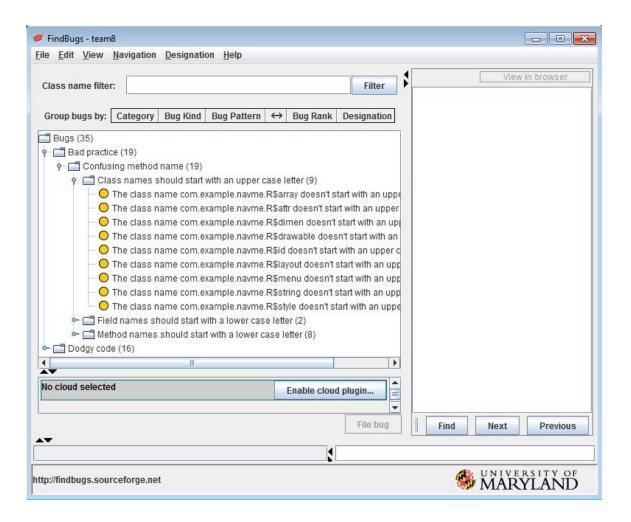
Assingment for debuging a given code using FindBugs

Rahul Punde

ID: 1001057239



Following bugs have been documented from Team-8's application project "Nav Me".

Error 1: Class names should start with an upper case letter

Class names should be nouns, in mixed case with the first letter of each internal word capitalized.

The class names like array, attr, dimen should begin with capital letter. There are overall 9 errors documented from this R.java class

Error 2: Field names should start with a lower case letter

Field names should start with a lower case letter (2)

The field name com.example.navme.MainActivity.Spinner1 doesn't start with a lower case letter

The field name com.example.navme.MainActivity.Spinner2 doesn't start with a lower case letter

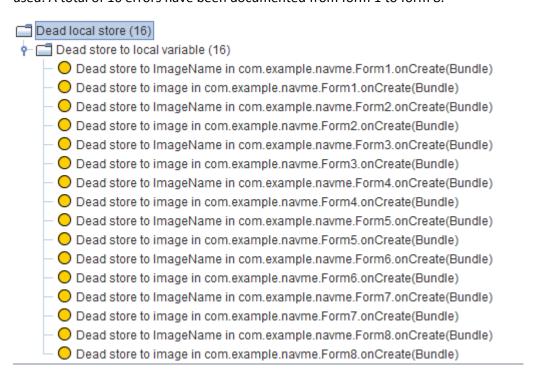
Variable names must begin with lower cases as per naming conventions unlike in this MainActivity.java class illustrated below.

```
import android.widget.Spinner;
public class MainActivity extends Activity {
 public Spinner Spinner1;
 public Spinner Spinner2;
 Button Navigate;
     @Override
     protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
      // Spinner1 = (Spinner) findViewById(R.id.Tospin);
        // Spinner2 = (Spinner) findViewById(R.id.spinner2);
         Spinner1 = (Spinner) findViewById(R.id.spinner1);
         ArrayAdapter adapter = ArrayAdapter.createFromResource(
         this, R.array.start, android.R.layout.simple spinner item);
         adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
         Spinner1.setAdapter(adapter);
         Spinner2 = (Spinner) findViewById(R.id.spinner2);
```

The field name Spinner should have mixed cases starting with a lower case.

Error 3: Dead store to local variable

This kind of error is highlighted in the event when the instruction assigns a value but it is never being used. A total of 16 errors have been documented from form 1 to form 8.



It seemed like the variables were initially used but later added as comment lines which lead to the error of 'dead local store'.

```
package com.example.navme;
 2
 3
      import android.net.Uri;
 4
      import android.os.Bundle;
 5
      import android.app.Activity;
      import android.content.Intent;
 7
      import android.content.res.Resources;
 8
      import android.graphics.drawable.Drawable;
 9
      import android.view.Menu;
      import android.view.View;
10
      import android.widget.ImageView;
11
12
    □public class Form1 extends Activity {
13
14
15
          @Override
16
          protected void onCreate(Bundle savedInstanceState) {
17
              super.onCreate(savedInstanceState);
18
              Intent intent = getIntent();
              String ImageName = intent.getStringExtra("ImageName");
19
              String FullURL="R.drawable."+ImageName;
20
```

This instruction assigns a value to a local variable, but the value is not read or used in any subsequent instruction which is indicated as an error, because the value computed is never used.