Mobile Application Development

Higher Diploma in Science in Computer Science



Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics Waterford Institute of Technology

http://www.wit.ie

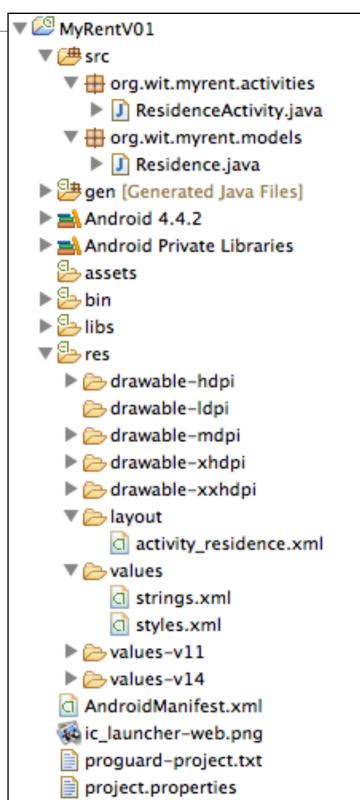
http://elearning.wit.ie

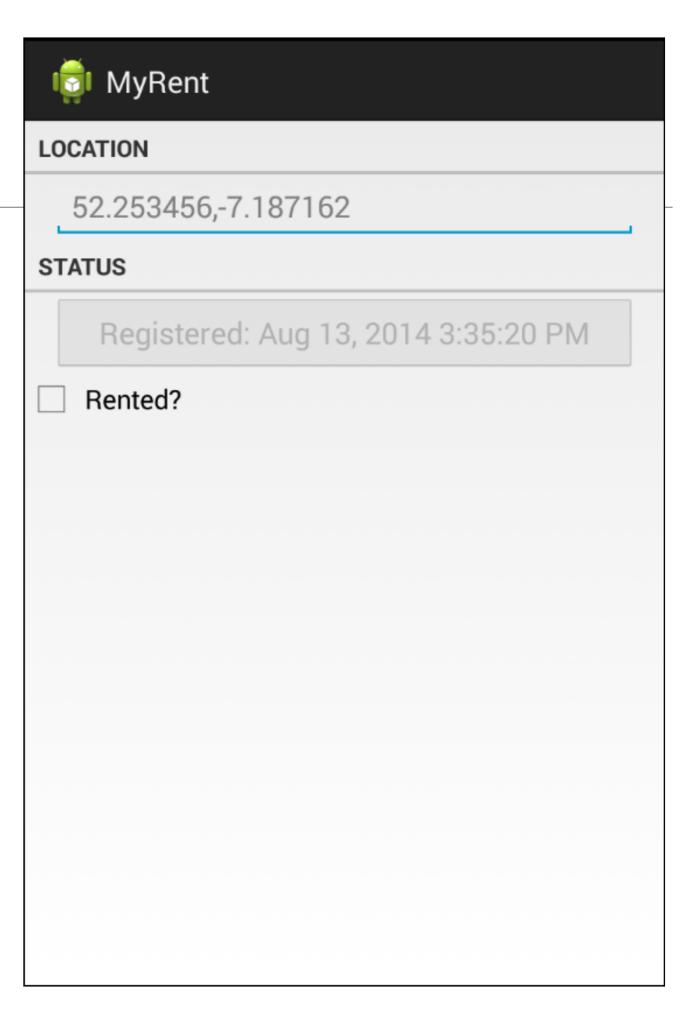




MyRent V0

MyRent V01





Layout Structure

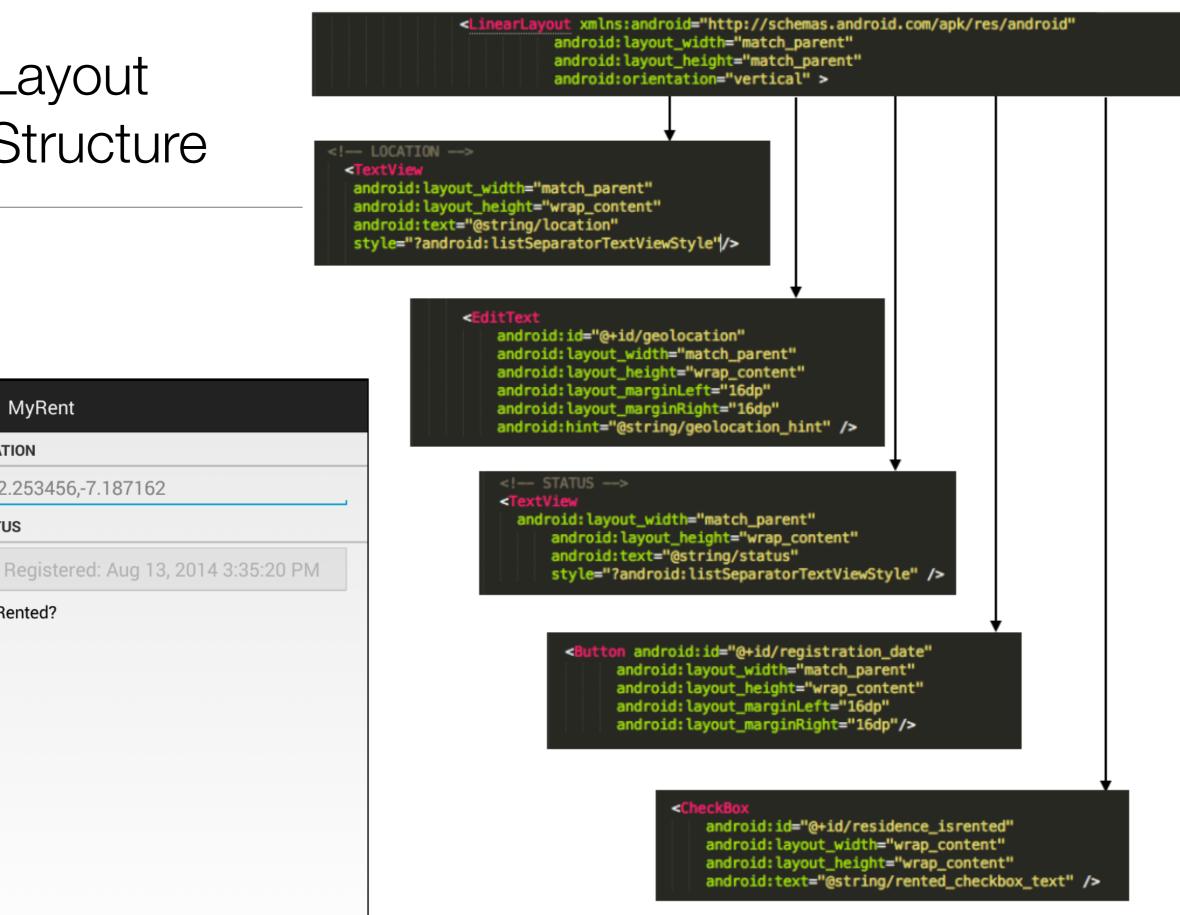
📵 MyRent

Rented?

52.253456,-7.187162

LOCATION

STATUS



Residence

```
public class Residence
  public UUID id;
  public String geolocation;
  public Date
                date;
  public boolean rented;
  public Residence()
    id = UUID.randomUUID();
    this.date = new Date();
  public String getDateString()
    return "Registered: " + DateFormat.getDateTimeInstance().format(date);
```

ResidenceActivity - Initialisation

```
public class ResidenceActivity extends Activity implements TextWatcher, OnCheckedChangeListener
 private EditText geolocation;
                                                                              🗊 MyRent
 private CheckBox rented;
 private Button dateButton;
                                                                            LOCATION
 private Residence residence;
                                                                              52.253456,-7.187162
 @Override
                                                                            STATUS
 public void onCreate(Bundle savedInstanceState)
                                                                                Registered: Aug 13, 2014 3:35:20 PM
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_residence);
                                                                               Rented?
   geolocation = (EditText) findViewById(R.id.geolocation);
                            findViewById(R.id.registration_date);
   dateButton = (Button)
               = (CheckBox) findViewById(R.id.isrented);
    rented
    residence = new Residence();
   geolocation.addTextChangedListener(this);
   geolocation.setText(residence.geolocation);
   dateButton .setEnabled(false);
   rented
               .setChecked(residence.rented);
              .setOnCheckedChangeListener(this);
    rented
```

ResidenceActivity - Event Handlers

```
public class ResidenceActivity extends Activity implements TextWatcher, OnCheckedChangeListener
 private EditText geolocation;
 private CheckBox rented;
 //...
 @Override
 public void onCreate(Bundle savedInstanceState)
    //..
   geolocation.addTextChangedListener(this);
               .setOnCheckedChangeListener(this);
    rented
 @Override
 public void onCheckedChanged(CompoundButton arg0, boolean isChecked)
    Log.i(this.getClass().getSimpleName(), "rented Checked");
    residence.rented = isChecked;
 @Override
 public void afterTextChanged(Editable c)
    Log.i(this.getClass().getSimpleName(), "geolocation " + c.toString());
    residence.geolocation = c.toString();
 @Override
 public void beforeTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
  {
 @Override
 public void onTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
```

ResidenceActivity - Event Handlers

```
public class ResidenceActivity extends Activity implements TextWatcher,
                                                                        OnCheckedChangeListener
 private EditText geolocation;
 private CheckBox rented;
 //...
 @Override
 public void onCreate(Bundle savedInstanceState)
    //..
   geolocation.addTextChangedListener(this);
               .setOnCheckedChangeListener(this);
    rented
  @Override
 public void onCheckedChanged(CompoundButton arg0, boolean isChecked)
    Log.i(this.getClass().getSimpleName(), "rented Checked");
    residence.rented = isChecked;
 @Override
 public void afterTextChanged(Editable c)
    Log.i(this.getClass().getSimpleName(), "geolocation " + c.toString());
    residence.geolocation = c.toString();
 @Override
 public void beforeTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
 @Override
 public void onTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
```

ResidenceActivity - Event Handlers

```
{\tt OnCheckedChangeListener}
public class ResidenceActivity extends Activity implements TextWatcher,
 private EditText geolocation;
  private CheckBox rented;
  //...
  @Override
 public void onCreate(Bundle savedInstanceState)
    //..
    geolocation.addTextChangedListener(this);
               .setOnCheckedChangeListener(this);
    rented
  @Override
  public void onCheckedChanged(CompoundButton arg0, boolean isChecked)
    Log.i(this.getClass().getSimpleName(), "rented Checked");
    residence.rented = isChecked;
  @Override
 public void afterTextChanged(Editable c)
    Log.i(this.getClass().getSimpleName(), "geolocation " + c.toString());
    residence.geolocation = c.toString();
 @Override
 public void beforeTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
  @Override
  public void onTextChanged(CharSequence arg0, int arg1, int arg2, int arg3)
```



Except where otherwise noted, this content is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

For more information, please see http://creativecommons.org/licenses/by-nc/3.0/



