

# Mobile Application Development

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Produced  
by

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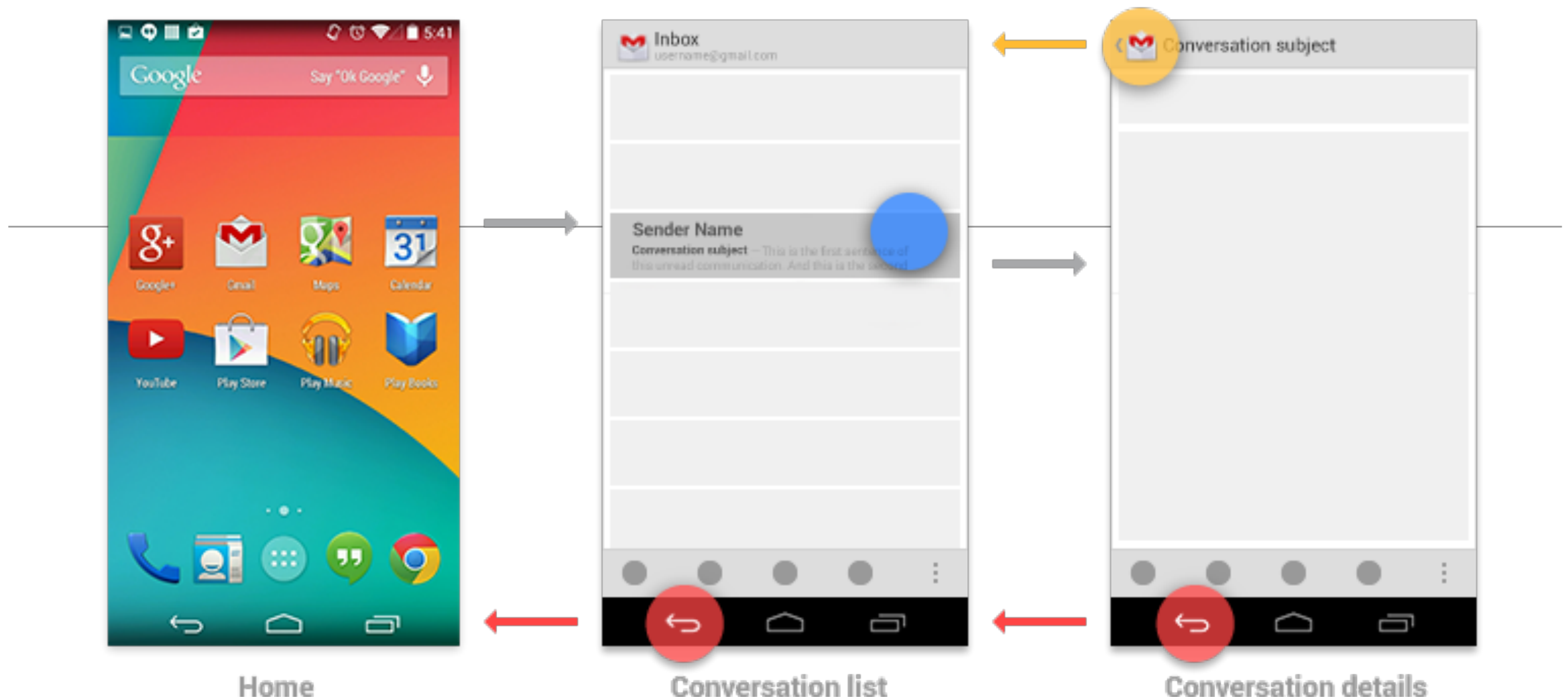


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# File IO in MyRent

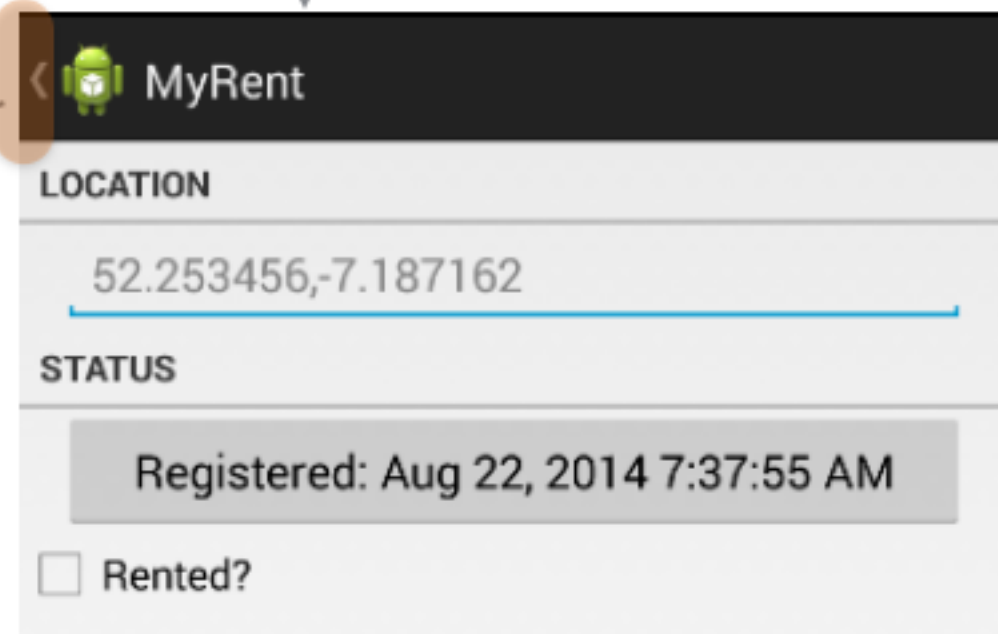
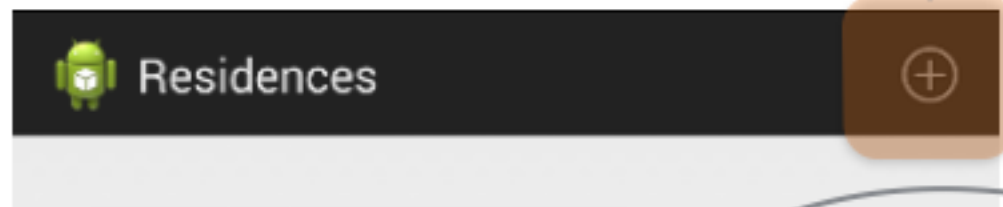
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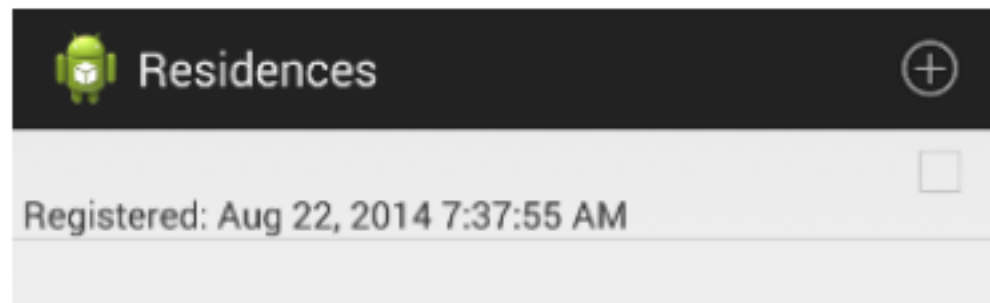
- When the previously viewed screen is also the hierarchical parent of the current screen, pressing the Back button has the same result as pressing an Up button—this is a common occurrence.
- However, unlike the Up button, which ensures the user remains within your app, the Back button can return the user to the Home screen, or even to a different app.

1. Menu item to add new residence

2. Detail view new residence



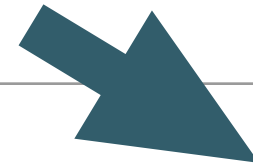
3. Up button



4. Press Up button to return to list

# ResidenceActivity

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- “Up” support not available by default
- Needs to be explicitly programmed

The screenshot shows the 'MyRent' mobile application. At the top is a dark header with a back arrow, an Android robot icon, and the text 'MyRent'. Below the header, there are two main sections: 'LOCATION' and 'STATUS'. The 'LOCATION' section has a text input field containing the coordinates '52.253456, -7.187162'. The 'STATUS' section contains a grey button with the text 'Registered: Sep 6, 2014 11:48:31 AM' and a checkbox labeled 'Rented?'.

LOCATION
52.253456, -7.187162

STATUS
Registered: Sep 6, 2014 11:48:31 AM
<input type="checkbox"/> Rented?

# Enabling Up support - IntentHelpers

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- Introduce helper to encapsulate up navigation

```
public static void navigateUp(Activity parent)
{
    Intent upIntent = NavUtils.getParentActivityIntent(parent);
    NavUtils.navigateUpTo(parent, upIntent);
}
```

# ResidenceActivity

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- Enable Up Button in Action Bar

```
@Override
public void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_residence);
    getActionBar().setDisplayHomeAsUpEnabled(true);
    ...
}
```



# ResidenceActivity

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- Override onOptionsItemSelected method

```
@Override
public boolean onOptionsItemSelected(MenuItem item)
{
    switch (item.getItemId())
    {
        case android.R.id.home: navigateUp(this);
                                return true;
    }
    return super.onOptionsItemSelected(item);
}
```

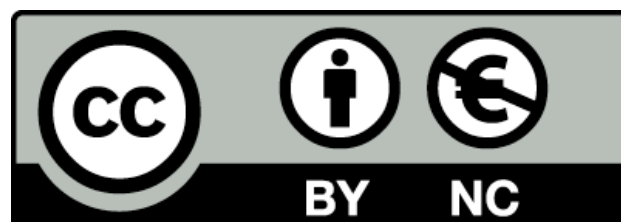


# ResidenceActivity

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- Declare ResidenceListActivity as the 'parent' of ResidenceActivity in manifest

```
<activity  
    android:name=".activities.ResidenceActivity"  
    android:label="@string/app_name" >  
    <meta-data android:name="android.support.PARENT_ACTIVITY" android:value=".activities.ResidenceListActivity"/>  
</activity>
```



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