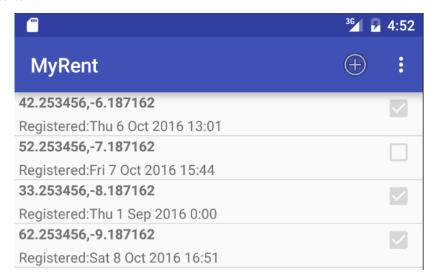
# Mobile Application Development Contextual actual bar - deletion

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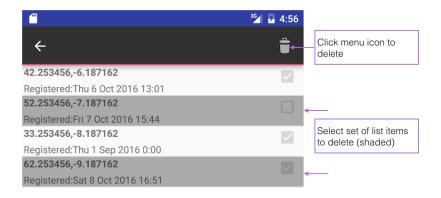
#### List items



Long press reveals contextual action bar



#### Two items marked for deletion



Original action bar restored on deletion



Long-press delete list selection - implementation

- Create a context menu.
- Android ListView instance used to track long-press items.
- Implement AbsListView.MultiChoiceModeListener.
- Long press overlays actionbar with contextual actionbar.
- This contains context menu.

Long-press delete list selection - user

- Long-press list item reveals context menu.
- Contextual action bar overlays the (original) action bar.
- Optionally select select other list items for deletion.
- Click on trash can icon to trigger delete.
- Original action bar restored.

# ListView

android.R.id.list retrieves residence list

```
private ListView listView;
listView = (ListView) v.findViewById(android.R.id.list);
listView.setChoiceMode(ListView.CHOICE_MODE_MULTIPLE_MODAL);
listView.setMultiChoiceModeListener(this);
```

Trash can icon: ic\_menu\_delete

#### Highlight selected list item

Add attribute to activate highlighting

```
// res/layout/list_item_residence.xml attribute
// necessary to persist highlighting until deletion complete
android:background="@drawable/background_activated"
```

## AbsListView.MultiChoiceModeListener

MultiChoiceModeListener methods default implementations

```
Onverride
public void on Item Checked State Changed (Action Mode action Mode, int i, long 1,
     boolean b) {}
@Override
public boolean onCreateActionMode(ActionMode mode, Menu menu)
{return false;}
Onverride
public boolean onPrepareActionMode(ActionMode mode, Menu menu)
{return false;}
@Override
public boolean onActionItemClicked(ActionMode mode, MenuItem item)
{return false;}
Onverride
public void onDestroyActionMode(ActionMode mode) {}
```

MultiChoiceModeListener method inflates context menu

```
public boolean onCreateActionMode(ActionMode actionMode, Menu menu)
{
    MenuInflater inflater = actionMode.getMenuInflater();
    inflater.inflate(R.menu.residence_list_context, menu);
    return true;
}
```

MultiChoiceModeListener method implements deletion

```
public boolean onActionItemClicked(ActionMode actionMode, MenuItem menuItem)
{
    switch (menuItem.getItemId())
    {
        case R.id.menu_item_delete_residence:
            deleteResidence(actionMode);
            return true;
            ...
        }
    }
```

#### MultiChoiceModeListener method implements deletion

```
private void deleteResidence(ActionMode actionMode)
{
  for (int i = adapter.getCount() - 1; i >= 0; i--)
    {
      if (listView.isItemChecked(i))
      {
          portfolio.deleteResidence(adapter.getItem(i));
      }
    }
    actionMode.finish();
    adapter.notifyDataSetChanged();
}
```

#### Referenced Material

#### 1. ListView

https://developer.android.com/reference/android/widget/ListView.html

[Accessed 2016-10-08]

#### 2. AbsListView

https://developer.android.com/reference/android/widget/AbsListView.html

[Accessed 2016-10-08]

3. AbsListView.MultiChoiceModeListener

https://developer.android.com/reference/android/widget/AbsListView.MultiChoiceModeListener.html

[Accessed 2016-10-08]

#### Referenced Material

#### 4. ActionMode.Callback

https://developer.android.com/reference/android/view/ActionMode.Callback.html

[Accessed 2016-10-08]



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