Mobile Application Development Manual-refresh cache from service using Retrofit

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November 20, 2016

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Learning objectives

How to manually refresh cached data using subclassed:

Retrofit HTTP client.

Comparison auto & manual cache refresh

Recall that auto-refresh involves:

- Retrofit HTTP client
- BroadcastReceiver
- IntentService

Manual refresh does not use service or receiver

- Uses Retrofit HTTP client
- Direct call to service
- On worker thread

Residence List Fragment

- Initiate manual refresh via menu selection.
- Represented by rotate icon.

```
onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
        ...
        case R.id.action_refresh:
        retrieveResidences();
        return true;
    }
}
```



Residence List Fragment

- Implement retrieveResidences()
- Using inner class pattern.
- Could use anonymous class.
- Retrieve residences from service.

```
public void retrieveResidences() {
  RetrieveResidences retrieveResidences =
    new RetrieveResidences();
  Call<List<Residence>> call = app
    .residenceService
    .getResidences();
  call.enqueue(retrieveResidences);
}
```



ResidenceListFragment

- The inner class.
- Consult accompanying lab for full implementation.

```
class RetrieveResidences
 implements Callback<List<Residence>> {
 Olverride
 public void onResponse(Response<List<Residence>> response,
                      Retrofit retrofit) {
 Onverride
 public void onFailure(Throwable t) {
```



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