

# Implementing a Custom Back Stack

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# Navigation Methods



**Module\_6/start/TabianDating**



# Current Back Navigation

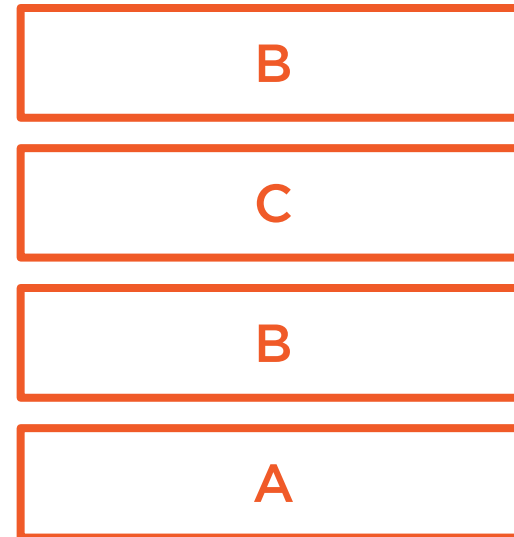
## State is lost

- Fragments appear empty



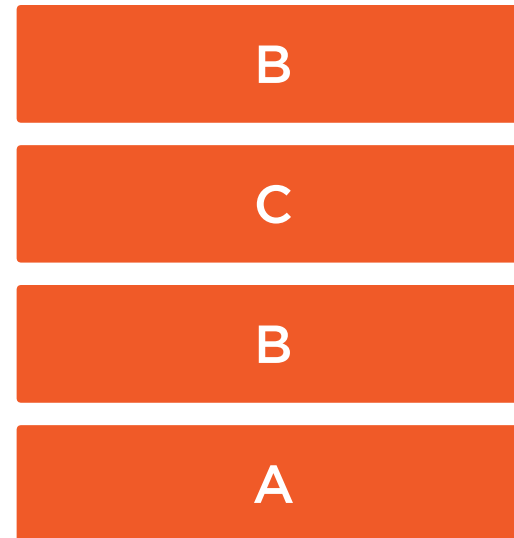
# Lego Blocks

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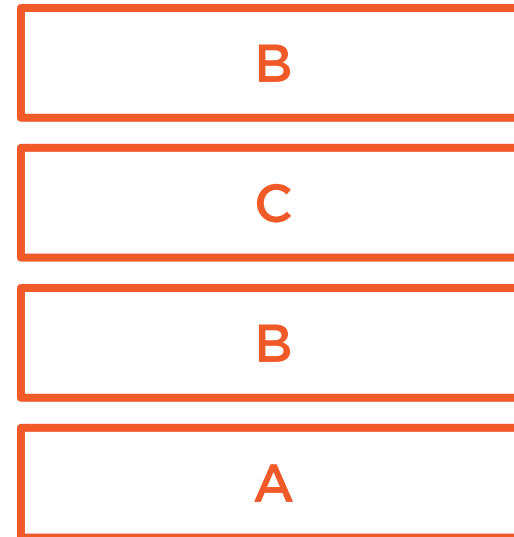
# Lego Blocks

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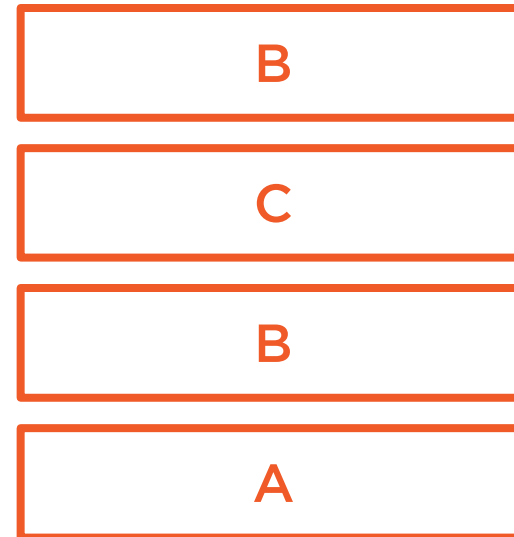
# Lego Blocks

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# Lego Blocks

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# Building a Custom Back-Stack

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# Overriding the Back Button

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# Refreshing a RecyclerView

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# Module Review

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# Data Structures

```
private ArrayList<String> mFragmentsTags;  
private ArrayList<FragmentTag> mFragments;
```



# FragmentTag

```
public class FragmentTag {  
  
    private Fragment fragment;  
    private String tag;  
  
    public FragmentTag(Fragment fragment, String tag) {  
        this.fragment = fragment;  
        this.tag = tag;  
    }  
    public FragmentTag() {  
    }  
    public Fragment getFragment() {return fragment;}  
  
    public void setFragment(Fragment fragment)  
    {this.fragment = fragment;}  
  
    public String getTag() {return tag;}  
  
    public void setTag(String tag) {this.tag = tag;}  
}
```



# addToBackStack

```
mFragmentsTags.add(getString(R.string.tag_fragment_messages));
```

```
mFragments.add(new FragmentTag(mMessagesFragment,  
getString(R.string.tag_fragment_messages)));
```



.replace

```
transaction.replace(R.id.main_content_frame, mMessagesFragment,  
getString(R.string.tag_fragment_messages));
```

```
transaction.add(R.id.main_content_frame, mMessagesFragment,  
getString(R.string.tag_fragment_messages));
```



onBackPressed()

```
@Override  
public void onBackPressed() {  
  
}
```





# onBackPressed()

```
@Override
public void onBackPressed() {

    int backStackCount = mFragmentsTags.size();

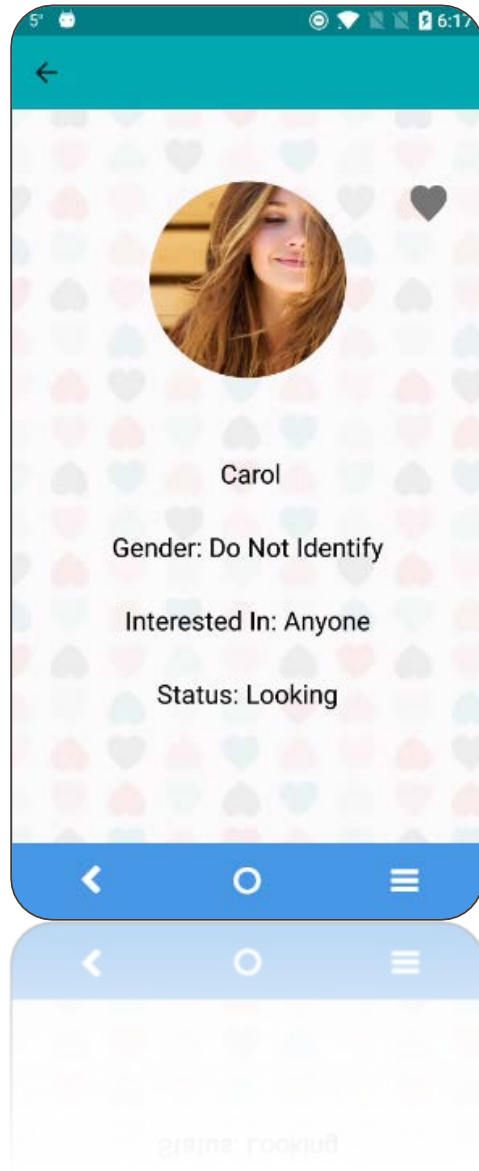
    if(backStackCount > 1){
        //      ADD NEW FRAGMENT TO THE TOP
    }
    else if( backStackCount == 1){
        //      INCREMENT EXIT COUNT
        //      (one more click to exit)
    }
    if(mExitCount >= 2){
        super.onBackPressed();
    }
}
```



# setFragmentVisibilities(String tagname)

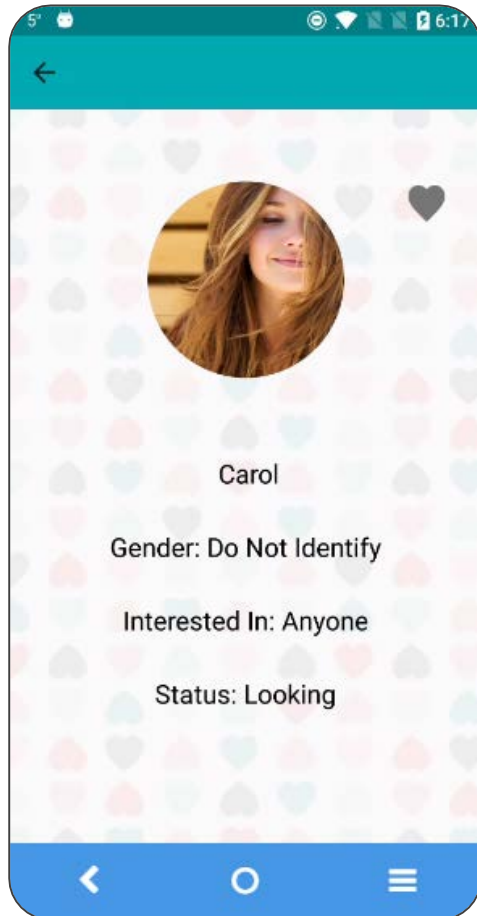


**Hide fragments not at the top of stack**  
**Show the fragment at the top of stack**  
**Hide/show the bottom navigation**



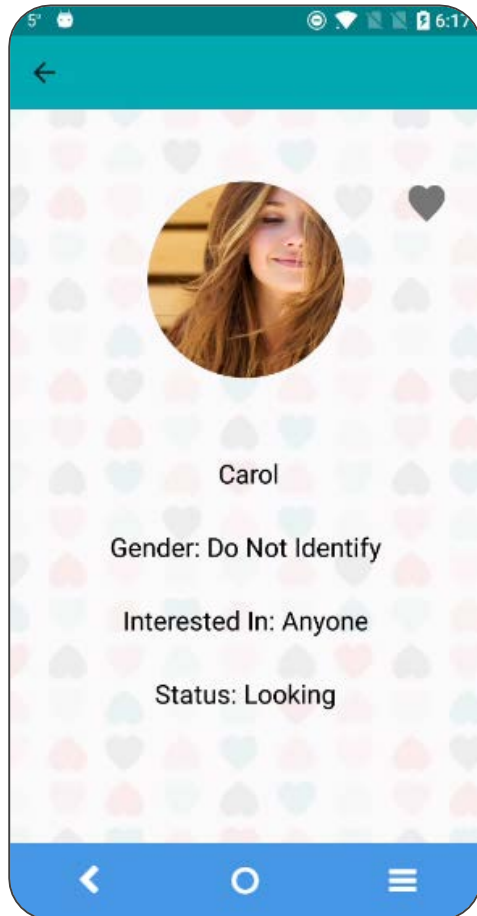
**Pressing back arrow is not the same as pressing the back button**





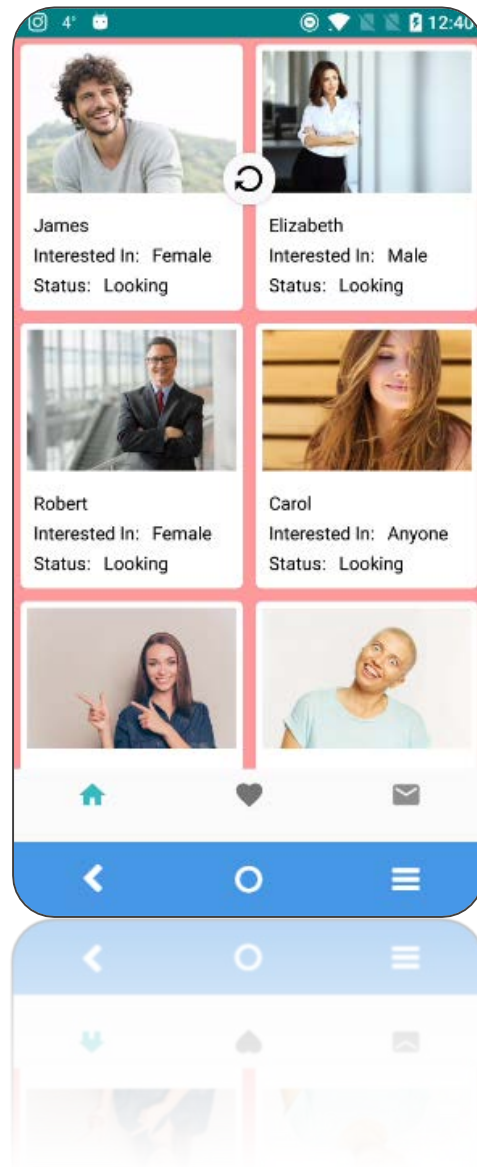
```
public interface IMainActivity {  
  
    void inflateViewProfileFragment(User user);  
  
    void onMessageSelected(Message message);  
  
    void onBackPressed();  
  
}
```





```
@Override
public void onClick(View view) {
    if(view.getId() == R.id.back_arrow){
        Log.d(TAG, "onClick: navigating back.");
        mInterface.onBackPressed();
    }
}
```





```
@Override
public void onRefresh() {
    findMatches();
    onItemsLoadComplete();
}

void onItemsLoadComplete() {
    mRecyclerViewAdapter.notifyDataSetChanged();
    mSwipeRefreshLayout.setRefreshing(false);
}
```



Up  
Next

**Implementing tabs and selecting a new  
profile image**

