

Class HomeFragment

java.lang.Object
 android.support.v4.app.Fragment
 ultramirinc.champs_mood.fragments.HomeFragment

All Implemented Interfaces:
android.content.ComponentCallbacks, android.view.View.OnClickListener, android.view.View.OnCreateContextMenuListener, com.google.android.gms.common.api.GoogleApiClient.ConnectionCallbacks, com.google.android.gms.common.api.GoogleApiClient.OnConnectionFailedListener, com.google.android.gms.maps.GoogleMap.OnInfoWindowClickListener, com.google.android.gms.maps.OnMapReadyCallback, java.util.Observer

public class HomeFragment
extends android.support.v4.app.Fragment
implements java.util.Observer, com.google.android.gms.maps.OnMapReadyCallback, com.google.android.gms.common.api.GoogleApiClient.ConnectionC

Created by Etienne Berube on 2017-03-23. This class is the homepage of the app. When it is launched. It appears as the first tab the user will see. He will then see his current mood and the location of his friends on the map.

Nested Class Summary

Nested classes/interfaces inherited from class android.support.v4.app.Fragment

android.support.v4.app.Fragment.InstantiationException, android.support.v4.app.Fragment.SavedState

Field Summary

Fields

Modifier and Type	Field and Description
private java.util.List<User>	friends Contains list of the user's Friends
private com.google.android.gms.common.api.GoogleApiClient	mGoogleApiClient The Google Api Client Object is required to access Google's APIs
private com.google.android.gms.location.LocationRequest	mLocationRequest The location request in order to get information from the GPS
private com.google.android.gms.maps.GoogleMap	mMap The map from Google Map
private android.view.View	view Contains the visual layout of the fragment

Fields inherited from interface com.google.android.gms.common.api.GoogleApiClient.ConnectionCallbacks

CAUSE_NETWORK_LOST, CAUSE_SERVICE_DISCONNECTED

Constructor Summary

Constructors

Constructor and Description
HomeFragment()

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
private void	createGoogleApiClient()	This method creates the Google Api Client used for the Google Map.
private void	createRequestLocation()	Creates the location requests in order to get the location from the user's phone
void	drawMap()	Draws the map accordingly to the user's friends locations
void	getFriends(User u)	Gets the current User's friends.
private void	loadProfile()	Gets the current User's informations.
void	onClick(android.view.View v)	
void	onConnected(android.os.Bundle bundle)	This method is called when the Google Api Client is connected.
void	onConnectionFailed(com.google.android.gms.common.ConnectionResult connectionResult)	
void	onConnectionSuspended(int i)	This method is called when the connection between the Google Api Client and the user is lost.
android.view.View	onCreateView(android.view.LayoutInflater inflater, android.view.ViewGroup container, android.os.Bundle savedInstanceState)	Inflates the visual layout for the fragment
void	onDestroyView()	
void	onInfoWindowClick(com.google.android.gms.maps.model.Marker marker)	
void	onMapReady(com.google.android.gms.maps.GoogleMap googleMap)	
void	onPause()	
void	onResume()	
void	setDataListeners(User u)	Sets Listeners for the map to re-draw each time a friend changes its location.
void	setUserAndPaintProfile(User u)	This method takes a User and sets the visual layout accordingly to certain fields and variables.
void	update(java.util.Observable o, java.lang.Object arg)	
void	updateView(User u)	Updates the View for the user's mood.

Methods inherited from class android.support.v4.app.Fragment

dump, equals, getActivity, getAllowEnterTransitionOverlap, getAllowReturnTransitionOverlap, getArguments, getChildFragmentManager, getContext, getEnterTransition, getExitTransition, getFragmentManager, getHost, getId, getLayoutInflater, getLoaderManager, getParentFragment, getReenterTransition, getResources, getRetainInstance, getReturnTransition, getSharedElementEnterTransition, getSharedElementReturnTransition, getString, getString, getTag, getTargetFragment, getTargetRequestCode, getText, getUserVisibleHint, getView, hashCode, hasOptionsMenu, instantiate, instantiate, isAdded, isDetached, isHidden, isInLayout, isMenuVisible, isRemoving, isResumed, isVisible, onActivityCreated, onActivityResult, onAttach, onAttach, onAttachFragment, onConfigurationChanged, onContextItemSelected, onCreate, onCreateAnimation, onCreateContextMenu, onCreateOptionsMenu, onDestroy, onDestroyOptionsMenu, onDetach, onHiddenChanged, onInflate, onInflate, onLowMemory, onMultiWindowModeChanged, onOptionsItemSelected, onOptionsItemSelected, onPictureInPictureModeChanged, onPrepareOptionsMenu, onRequestPermissionsResult, onSaveInstanceState, onStart, onStop, onViewCreated, onViewStateRestored, postponeEnterTransition, registerForContextMenu, requestPermissions, setAllowEnterTransitionOverlap, setAllowReturnTransitionOverlap, setArguments, setEnterSharedElementCallback, setEnterTransition, setExitSharedElementCallback, setExitTransition, setHasOptionsMenu, setInitialSavedState, setMenuVisibility, setReenterTransition, setRetainInstance, setReturnTransition, setSharedElementEnterTransition, setSharedElementReturnTransition, setTargetFragment, setUserVisibleHint, shouldShowRequestPermissionRationale, startActivity, startActivity, startActivityForResult, startActivityForResult, startActivitySenderForResult, startPostponedEnterTransition, toString, unregisterForContextMenu

Methods inherited from class java.lang.Object

clone, finalize, getClass, notify, notifyAll, wait, wait, wait

Field Detail

mMap

```
private com.google.android.gms.maps.GoogleMap mMap
```

The map from Google Map

mGoogleApiClient

```
private com.google.android.gms.common.api.GoogleApiClient mGoogleApiClient
```

The Google Api Client Object is required to access Google's APIs

view

```
private android.view.View view
```

Contains the visual layout of the fragment

mLocationRequest

```
private com.google.android.gms.location.LocationRequest mLocationRequest
```

The location request in order to get information from the GPS

friends

```
private java.util.List<User> friends
```

Contains list of the user's Friends

Constructor Detail

HomeFragment

```
public HomeFragment()
```

Method Detail

onCreateView

```
public android.view.View onCreateView(android.view.LayoutInflater inflater,  
                                     android.view.ViewGroup container,  
                                     android.os.Bundle savedInstanceState)
```

Inflates the visual layout for the fragment

Overrides:

onCreateView in class android.support.v4.app.Fragment

update

```
public void update(java.util.Observable o,  
                  java.lang.Object arg)
```

Specified by:

update in interface java.util.Observer

updateView

```
public void updateView(User u)
```

Updates the View for the user's mood.

onResume

```
public void onResume()
```

Overrides:

onResume in class android.support.v4.app.Fragment

onPause

```
public void onPause()
```

Overrides:

onPause in class android.support.v4.app.Fragment

onConnected

```
public void onConnected(@Nullable  
                        android.os.Bundle bundle)
```

This method is called when the Google Api Client is connected.

Specified by:

onConnected in interface com.google.android.gms.common.api.GoogleApiClient.ConnectionCallbacks

createGoogleApiClient

```
private void createGoogleApiClient()
```

This method creates the Google Api Client used for the Google Map.

createRequestLocation

```
private void createRequestLocation()
```

Creates the location requests in order to get the location from the user's phone

onMapReady

```
public void onMapReady(com.google.android.gms.maps.GoogleMap googleMap)
```

Specified by:

onMapReady in interface com.google.android.gms.maps.OnMapReadyCallback

onConnectionSuspended

```
public void onConnectionSuspended(int i)
```

This method is called when the connection between the Google Api Client and the user is lost.

Specified by:

onConnectionSuspended in interface com.google.android.gms.common.api.GoogleApiClient.ConnectionCallbacks

onConnectionFailed

```
public void onConnectionFailed(@NonNull  
                               com.google.android.gms.common.ConnectionResult connectionResult)
```

Specified by:

onConnectionFailed in interface com.google.android.gms.common.api.GoogleApiClient.OnConnectionFailedListener

onDestroyView

```
public void onDestroyView()
```

Overrides:

onDestroyView in class android.support.v4.app.Fragment

onClick

```
public void onClick(android.view.View v)
```

Specified by:

onClick in interface android.view.View.OnClickListener

setUserAndPaintProfile

```
public void setUserAndPaintProfile(User u)
```

This method takes a User and sets the visual layout accordingly to certain fields and variables.

loadProfile

```
private void loadProfile()
```

Gets the current User's informations.

getFriends

```
public void getFriends(User u)
```

Gets the current User's friends.

setDataListeners

```
public void setDataListeners(User u)
```

Sets Listeners for the map to re-draw each time a friend changes its location.

onInfoWindowClick

```
public void onInfoWindowClick(com.google.android.gms.maps.model.Marker marker)
```

Specified by:

onInfoWindowClick in interface `com.google.android.gms.maps.GoogleMap.OnInfoWindowClickListener`

drawMap

```
public void drawMap()
```

Draws the map accordingly to the user's friends locations