

Movie Guide

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Adapter	
movieguideapplication.VideoAdapter	18
movieguideapplication.ApiUtils	5
movieguideapplication.MovieList	11
movieguideapplication.MovieRetriever	12
movieguideapplication.RetrofitClient	14
movieguideapplication.RetrofitClient2	15
movieguideapplication.VideoList	20
ViewHolder	
movieguideapplication.VideoAdapter.VideoViewHolder	20
movieguideapplication.YouTubeVideos	21
AppCompatActivity	
movieguideapplication.MainActivity	6
movieguideapplication.MovieInfoView	10
movieguideapplication.SearchableActivity	15
Serializable	
movieguideapplication.Movie	7
movieguideapplication.Video	16

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

movieguideapplication.ApiUtils	5
movieguideapplication.MainActivity	6
movieguideapplication.Movie	7
movieguideapplication.MovieInfoView	10
movieguideapplication.MovieList	11
movieguideapplication.MovieRetriever	12
movieguideapplication.RetrofitClient	14
movieguideapplication.RetrofitClient2	15
movieguideapplication.SearchableActivity	15
movieguideapplication.Video	16
movieguideapplication.VideoAdapter	18
movieguideapplication.VideoList	20
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Chapter 3

Class Documentation

3.1 movieguideapplication.ApiUtils Class Reference

Static Public Member Functions

- static [MovieRetriever](#) [getMovieRetriever](#) ()
- static [MovieRetriever](#) [getVideoRetriever](#) ()

Static Public Attributes

- static final String [BASE_URL](#) = "http://api.themoviedb.org"
- static final String [MOVIE_BASE_URL](#) = "http://api.themoviedb.org/3/movie/"

3.1.1 Detailed Description

API Utils Class This class primes the URL for a get request to be made using the Retrofit client

3.1.2 Member Function Documentation

3.1.2.1 [getMovieRetriever](#)()

```
static MovieRetriever movieguideapplication.ApiUtils.getMovieRetriever ( ) [static]
```

This method creates an object of the [MovieRetriever](#) class using the Retrofit Client

Returns

A [MovieRetriever](#) object using the [BASE_URL](#) variable

Here is the call graph for this function:

3.2 movieguideapplication.MainActivity Class Reference

Inheritance diagram for movieguideapplication.MainActivity:

Collaboration diagram for movieguideapplication.MainActivity:

Public Member Functions

- void [sortOptionDialog](#) (int sortOption)
- boolean [onCreateOptionsMenu](#) (Menu menu)

Public Attributes

- AlertDialog **sortDialog**
- int **page** = 1
- int **sortOption**
- int **maxPages**

Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

3.2.1 Detailed Description

Parent class of the application

3.2.2 Member Function Documentation

3.2.2.1 onCreate()

```
void movieguideapplication.MainActivity.onCreate (
    Bundle savedInstanceState ) [protected]
```

Creates the user interface when the application is run

Parameters

<i>savedInstanceState</i>	Holds the saved state of the application
---------------------------	--

Here is the call graph for this function:

3.2.2.2 onCreateOptionsMenu()

```
boolean movieguideapplication.MainActivity.onCreateOptionsMenu (
    Menu menu )
```

Initializes the options menu when the application is started

Parameters

<i>menu</i>	
-------------	--

Returns

3.2.2.3 sortOptionDialog()

```
void movieguideapplication.MainActivity.sortOptionDialog (
    int sortOption )
```

creates an option box with radio buttons displaying the different sorting options available

Parameters

<i>sortOption</i>	
-------------------	--

Here is the caller graph for this function:

The documentation for this class was generated from the following file:

- MainActivity.java

3.3 movieguideapplication.Movie Class Reference

Inheritance diagram for movieguideapplication.Movie:

Collaboration diagram for movieguideapplication.Movie:

Public Member Functions

- [Movie](#) (int id, boolean video, double vote_average, String title, double popularity, String overview, String image_path, String release_date)
- String [getTitle](#) ()
- int [getId](#) ()
- String [getOverview](#) ()
- double [getRating](#) ()
- double [getPopularity](#) ()
- String [getImagePath](#) ()
- String [getReleaseDate](#) ()

3.3.1 Detailed Description

Parses movie data extracted from the API

3.3.2 Constructor & Destructor Documentation

3.3.2.1 Movie()

```
movieguideapplication.Movie.Movie (
    int id,
    boolean video,
    double vote_average,
    String title,
    double popularity,
    String overview,
    String image_path,
    String release_date )
```

Constructor for the [Movie](#) Class

Parameters

<i>id</i>	Contains the ID number of the movie
<i>video</i>	Boolean value corresponding to the availability of the movie trailer
<i>vote_average</i>	Contains the average rating of the movie
<i>title</i>	Contains a numerical value for the popularity of the movie
<i>popularity</i>	Contains a numerical value for the popularity of the movie
<i>overview</i>	Contains the summary of the movie
<i>image_path</i>	Contains the path of the movie image
<i>release_date</i>	Contains the release date of the movie

3.3.3 Member Function Documentation

3.3.3.1 getId()

```
int movieguideapplication.Movie.getId ( )
```

Gets the Id of a movie

Returns

id

3.3.3.2 getImagePath()

```
String movieguideapplication.Movie.getImagePath ( )
```

gets the path for the movie poster of a movie

Returns

image_path

Here is the caller graph for this function:

3.3.3.3 getOverview()

```
String movieguideapplication.Movie.getOverview ( )
```

gets the movie summary

Returns

overview

Here is the caller graph for this function:

3.3.3.4 getPopularity()

```
double movieguideapplication.Movie.getPopularity ( )
```

gets the popularity number of a movie

Returns

popularity

Here is the caller graph for this function:

3.3.3.5 getRating()

```
double movieguideapplication.Movie.getRating ( )
```

gets the rating of a movie

Returns

vote_average

Here is the caller graph for this function:

3.3.3.6 `getReleaseDate()`

```
String movieguideapplication.Movie.getReleaseDate ( )
```

gets the release date of a movie

Returns

release_date

Here is the caller graph for this function:

3.3.3.7 `getTitle()`

```
String movieguideapplication.Movie.getTitle ( )
```

Gets the title of the movie

Returns

string containing the title

Here is the caller graph for this function:

The documentation for this class was generated from the following file:

- `Movie.java`

3.4 `movieguideapplication.MovieInfoView` Class Reference

Inheritance diagram for `movieguideapplication.MovieInfoView`:

Collaboration diagram for `movieguideapplication.MovieInfoView`:

Protected Member Functions

- void `onCreate` (@Nullable Bundle `savedInstanceState`)

3.4.1 Detailed Description

Displays the movie information once a movie has been selected by the user

3.4.2 Member Function Documentation

3.4.2.1 `onCreate()`

```
void movieguideapplication.MovieInfoView.onCreate (
    @Nullable Bundle savedInstanceState ) [protected]
```

Creates the user interface when the application is run

Parameters

<code>savedInstanceState</code>	Holds the saved state of the application
---------------------------------	--

Here is the call graph for this function:

The documentation for this class was generated from the following file:

- MovieInfoView.java

3.5 movieguideapplication.MovieList Class Reference

Public Member Functions

- List< [Movie](#) > [getMovies](#) ()
- int [getMaxPages](#) ()

3.5.1 Detailed Description

Contains getter and setter methods for the list of movies loaded from the API

3.5.2 Member Function Documentation

3.5.2.1 getMaxPages()

```
int movieguideapplication.MovieList.getMaxPages ( )
```

Updates the list of movies

Returns

the number of pages needed to display the entire list of movies

3.5.2.2 getMovies()

```
List<Movie> movieguideapplication.MovieList.getMovies ( )
```

Gets the list of loaded movies

Returns

list of movies loaded from API

The documentation for this class was generated from the following file:

- MovieList.java

3.6 movieguideapplication.MovieRetriever Interface Reference

Public Member Functions

- Call< [MovieList](#) > [getMovie](#) (@Query("query") String title)
- Call< [MovieList](#) > [getMovies](#) (@Query("page") int page)
- Call< [MovieList](#) > [getMoviesDate](#) (@Query("page") int page, @Query("primary_release_date.lte") String Date)
- Call< [MovieList](#) > [getMoviesRating](#) (@Query("page") int page)
- Call< [VideoList](#) > [getVideos](#) (@Path("movieId") String movieId)

3.6.1 Detailed Description

Makes get requests to the API using the Retrofit Client annotations

3.6.2 Member Function Documentation

3.6.2.1 [getMovie\(\)](#)

```
Call<MovieList> movieguideapplication.MovieRetriever.getMovie (
    @Query("query") String title )
```

Get request for movies based by popularity

Parameters

<i>title</i>	
--------------	--

Returns

a call response of type [MovieList](#)

3.6.2.2 [getMovies\(\)](#)

```
Call<MovieList> movieguideapplication.MovieRetriever.getMovies (
    @Query("page") int page )
```

Get request for movies based by popularity and specified page

Parameters

<i>page</i>	Page to extract movies from
-------------	-----------------------------

Returns

A call response of type [MovieList](#)

3.6.2.3 getMoviesDate()

```
Call<MovieList> movieguideapplication.MovieRetriever.getMoviesDate (
    @Query("page") int page,
    @Query("primary_release_date.lte") String Date )
```

Get request for movies sorted by release date starting from a specified date and page

Parameters

<i>page</i>	
<i>Date</i>	

Returns

a call response of type [MovieList](#)

3.6.2.4 getMoviesRating()

```
Call<MovieList> movieguideapplication.MovieRetriever.getMoviesRating (
    @Query("page") int page )
```

Get request for movies sorted by vote average starting with specified page

Parameters

<i>page</i>	
-------------	--

Returns

a call response of type [MovieList](#)

3.6.2.5 getVideos()

```
Call<VideoList> movieguideapplication.MovieRetriever.getVideos (
    @Path("movieId") String movieId )
```

Get request for videos based on a movieId

Parameters

<i>movie</i> ↔	
<i>Id</i>	

Returns

a Call response of type [VideoList](#)

The documentation for this interface was generated from the following file:

- [MovieRetriever.java](#)

3.7 movieguideapplication.RetrofitClient Class Reference

Static Public Member Functions

- static Retrofit [getClient](#) (String baseUrl)

3.7.1 Detailed Description

Setup for the [RetrofitClient](#)

3.7.2 Member Function Documentation

3.7.2.1 getClient()

```
static Retrofit movieguideapplication.RetrofitClient.getClient (
    String baseUrl ) [static]
```

Provides framework for retrofit object

Parameters

<i>baseUrl</i>	The URL to which a get request will be made
----------------	---

Returns

retrofit object

Here is the caller graph for this function:

The documentation for this class was generated from the following file:

- [RetrofitClient.java](#)

3.8 movieguideapplication.RetrofitClient2 Class Reference

Static Public Member Functions

- static Retrofit [getClient](#) (String baseUrl)

3.8.1 Detailed Description

Setup for the [RetrofitClient](#)

3.8.2 Member Function Documentation

3.8.2.1 [getClient\(\)](#)

```
static Retrofit movieguideapplication.RetrofitClient2.getClient (
    String baseUrl ) [static]
```

Provides framework for retrofit object

Parameters

<i>baseUrl</i>	The URL to which a get request will be made
----------------	---

Returns

retrofit object

Here is the caller graph for this function:

The documentation for this class was generated from the following file:

- RetrofitClient2.java

3.9 movieguideapplication.SearchableActivity Class Reference

Inheritance diagram for movieguideapplication.SearchableActivity:

Collaboration diagram for movieguideapplication.SearchableActivity:

Protected Member Functions

- void [onCreate](#) (@Nullable Bundle savedInstanceState)

3.9.1 Detailed Description

This class is responsible for handling the searching functionality

3.9.2 Member Function Documentation

3.9.2.1 onCreate()

```
void movieguideapplication.SearchableActivity.onCreate (
    @Nullable Bundle savedInstanceState )    [protected]
```

Creates the user interface when the application is run

Parameters

<i>savedInstanceState</i>	Holds the saved state of the application
---------------------------	--

The documentation for this class was generated from the following file:

- SearchableActivity.java

3.10 movieguideapplication.Video Class Reference

Inheritance diagram for movieguideapplication.Video:

Collaboration diagram for movieguideapplication.Video:

Public Member Functions

- [Video](#) (String name, String site, String key, String type)
- String [getTitle](#) ()
- String [getSite](#) ()
- String [getKey](#) ()
- String [getType](#) ()

Static Public Attributes

- static final String **YOUTUBE_BASE_URL** = "https://www.youtube.com/watch?v="

3.10.1 Detailed Description

Parses video data from the API

3.10.2 Constructor & Destructor Documentation

3.10.2.1 Video()

```
movieguideapplication.Video.Video (
    String name,
    String site,
    String key,
    String type )
```

Constructor for the video class

Parameters

<i>name</i>	Name of the movie trailer
<i>site</i>	The website to which the trailer belongs
<i>key</i>	The video key required to build the video URL
<i>type</i>	The type of trailer

3.10.3 Member Function Documentation

3.10.3.1 getKey()

```
String movieguideapplication.Video.getKey ( )
```

Gets the video key

Returns

a unique key required to build the URL

3.10.3.2 getSite()

```
String movieguideapplication.Video.getSite ( )
```

Gets the website of the trailer

Returns

basename of the site to which the trailer belongs

3.10.3.3 getTitle()

```
String movieguideapplication.Video.getTitle ( )
```

Gets the name of the movie trailer

Returns

name of the trailer

3.10.3.4 getType()

```
String movieguideapplication.Video.getType ( )
```

Gets the type of trailer

Returns

description of the trailer type

The documentation for this class was generated from the following file:

- Video.java

3.11 movieguideapplication.VideoAdapter Class Reference

Inheritance diagram for movieguideapplication.VideoAdapter:

Collaboration diagram for movieguideapplication.VideoAdapter:

Classes

- class [VideoViewHolder](#)

Public Member Functions

- [VideoAdapter](#) (List< [YouTubeVideos](#) > videoList)
- VideoAdapter.VideoViewHolder [onCreateViewHolder](#) (ViewGroup parent, int viewType)
- void [onBindViewHolder](#) ([VideoViewHolder](#) holder, int position)
- int [getItemCount](#) ()

3.11.1 Detailed Description

This class populates the RecyclerView with videos. The RecyclerView allows horizontal scrolling between a variable list of videos.

3.11.2 Constructor & Destructor Documentation

3.11.2.1 VideoAdapter()

```
movieguideapplication.VideoAdapter.VideoAdapter (
    List< YouTubeVideos > videoList )
```

Constructor for the [VideoAdapter](#) class

Parameters

<i>videoList</i>	The list of videos to be displayed
------------------	------------------------------------

3.11.3 Member Function Documentation**3.11.3.1 getItemCount()**

```
int movieguideapplication.VideoAdapter.getItemCount ( )
```

Gets the total number of videos

Returns

size of the list of videos

3.11.3.2 onBindViewHolder()

```
void movieguideapplication.VideoAdapter.onBindViewHolder (
    VideoViewHolder holder,
    int position )
```

Loads the videos into the ViewHolder

Parameters

<i>holder</i>	VideoViewHolder object that the videos are loaded into
<i>position</i>	The index of the VideoViewHolder

3.11.3.3 onCreateViewHolder()

```
VideoAdapter.VideoViewHolder movieguideapplication.VideoAdapter.onCreateViewHolder (
    ViewGroup parent,
    int viewType )
```

Creates a ViewHolder for the RecyclerView by inflating the view with a layout

Parameters

<i>parent</i>	The view of the parent activity
<i>viewType</i>	Numerical value for the type of view

Returns

A ViewHolder for videos

The documentation for this class was generated from the following file:

- VideoAdapter.java

3.12 movieguideapplication.VideoList Class Reference

Public Member Functions

- List< Video > [getVideos](#) ()

3.12.1 Detailed Description

Contains getter and setter methods for the list of movies loaded from the API

3.12.2 Member Function Documentation

3.12.2.1 [getVideos\(\)](#)

```
List<Video> movieguideapplication.VideoList.getVideos ( )
```

Gets the list of loads video

Returns

videos

The documentation for this class was generated from the following file:

- VideoList.java

3.13 movieguideapplication.VideoAdapter.VideoViewHolder Class Reference

Inheritance diagram for movieguideapplication.VideoAdapter.VideoViewHolder:

Collaboration diagram for movieguideapplication.VideoAdapter.VideoViewHolder:

Public Member Functions

- [VideoViewHolder](#) (View itemView)

3.13.1 Detailed Description

This class creates a custom ViewHolder for videos

3.13.2 Constructor & Destructor Documentation

3.13.2.1 VideoViewHolder()

```
movieguideapplication.VideoAdapter.VideoViewHolder.VideoViewHolder (
    View itemView )
```

Constructor for the [VideoViewHolder](#)

Parameters

<i>itemView</i>	The view containing the video to be played
-----------------	--

The documentation for this class was generated from the following file:

- VideoAdapter.java

3.14 movieguideapplication.YouTubeVideos Class Reference

Public Member Functions

- [YouTubeVideos](#) (String videoUrl)
- String [getVideoUrl](#) ()

3.14.1 Constructor & Destructor Documentation

3.14.1.1 YouTubeVideos()

```
movieguideapplication.YouTubeVideos.YouTubeVideos (
    String videoUrl )
```

Constructor for the YoutubeVideos class

Parameters

<i>videoUrl</i>	
-----------------	--

3.14.2 Member Function Documentation

3.14.2.1 getUrl()

```
String movieguideapplication.YouTubeVideos.getUrl ( )
```

Gets the videoURL

Returns

video URL

The documentation for this class was generated from the following file:

- YouTubeVideos.java