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# Namespace Index

## 1.1 Packages

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## 2.1 Class Hierarchy

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

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com.example.myapplication.ExampleUnitTest [13](#_bookmark35)

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com.example.myapplication.Ladestation.PlugType [27](#_bookmark166)

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# Class Index

## 3.1 Class List

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# File Index

## 4.1 File List

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# Namespace Documentation

## Package com.example.myapplication

### Classes

* + - class [BuildConfig](#_bookmark14)
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    - class [ExampleUnitTest](#_bookmark36)
    - class [GlobalStorage](#_bookmark42)
    - class [HomeFragment](#_bookmark63)
    - class [Ladestation](#_bookmark69)
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    - class [ServiceFragment](#_bookmark197)
    - class [SQLiteHelper](#_bookmark204)
    - class [StationAdapter](#_bookmark239)
    - class [StationAPI](#_bookmark257)

### 5.1.1 Detailed Description

Automatically generated file. DO NOT MODIFY

# Class Documentation

## com.example.myapplication.BuildConfig Class Reference

### Static Public Attributes

* + - static final boolean [DEBUG](#_bookmark21) = Boolean.parseBoolean("true")
    - static final String [APPLICATION\_ID](#_bookmark17) = "com.example.myapplication"
    - static final String [BUILD\_TYPE](#_bookmark19) = "debug"
    - static final int [VERSION\_CODE](#_bookmark22) = 1
    - static final String [VERSION\_NAME](#_bookmark26) = "1.0"

### Member Data Documentation

#### APPLICATION\_ID

static final String com.example.myapplication.BuildConfig.APPLICATION\_ID = "com.example.*←>* myapplication" [static]

#### BUILD\_TYPE

static final String com.example.myapplication.BuildConfig.BUILD\_TYPE = "debug" [static]

#### DEBUG

static final boolean com.example.myapplication.BuildConfig.DEBUG = Boolean.parseBoolean("true") [static]

#### VERSION\_CODE

static final int com.example.myapplication.BuildConfig.VERSION\_CODE = 1 [static]

#### VERSION\_NAME

static final String com.example.myapplication.BuildConfig.VERSION\_NAME = "1.0" [static]

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

* + - * + app/build/generated/source/buildConfig/debug/com/example/myapplication/[BuildConfig.java](#_bookmark290)
        + app/build/generated/source/buildConfig/release/com/example/myapplication/[BuildConfig.java](#_bookmark292)

## com.example.myapplication.DownloadThread Class Reference

Inheritance diagram for com.example.myapplication.DownloadThread:

|  |  |
| --- | --- |
| Runnable | |
|  |  |
| com.example.myapplication.DownloadThread | |

### Public Member Functions

* + - void [run](#_bookmark32) ()
    - ArrayList*<* [Ladestation](#_bookmark69) *>* [getStations](#_bookmark31) ()

### Member Function Documentation

#### getStations()

ArrayList*<* [Ladestation](#_bookmark69) *>* com.example.myapplication.DownloadThread.getStations ( )

Getter for all stations

#### Returns

the stations ArrayList

#### com.example.myapplication.ExampleUnitTest Class Reference 13

#### run()

void com.example.myapplication.DownloadThread.run ( )

Overrides the Runnable's run method

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

* + - * + app/src/main/java/com/example/myapplication/[DownloadThread.java](#_bookmark294)

## com.example.myapplication.ExampleUnitTest Class Reference

### Public Member Functions

* + - void [addition\_isCorrect](#_bookmark40) ()

### Detailed Description

Example local unit test, which will execute on the development machine (host).

#### See also

[Testing documentation](http://d.android.com/tools/testing)

### Member Function Documentation

#### addition\_isCorrect()

void com.example.myapplication.ExampleUnitTest.addition\_isCorrect ( )

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

* + - * + app/src/test/java/com/example/myapplication/[ExampleUnitTest.java](#_bookmark324)

## com.example.myapplication.GlobalStorage Class Reference

### Static Public Member Functions

* + - static ArrayList*<* [Ladestation](#_bookmark69) *>* [getAllStations](#_bookmark46) ()
    - static void [setAllStations](#_bookmark54) (ArrayList*<* [Ladestation](#_bookmark69) *>* allStations)
    - static ArrayList*<* Integer *>* [getFavStations](#_bookmark50) ()
    - static void [setFavStations](#_bookmark59) (ArrayList*<* Integer *>* favStations)
    - static ArrayList*<* Integer *>* [getDefStations](#_bookmark48) ()
    - static void [setDefStations](#_bookmark57) (ArrayList*<* Integer *>* defStations)
    - static [SaveCheckedState](#_bookmark177) [getSaveCheckedState](#_bookmark52) ()
    - static void [setSaveCheckedState](#_bookmark61) ([SaveCheckedState](#_bookmark177) saveCheckedState)

### Member Function Documentation

#### getAllStations()

static ArrayList*<* [Ladestation](#_bookmark69) *>* com.example.myapplication.GlobalStorage.getAllStations ( ) [static]

Returns allStations

#### Returns

The allStations Array

#### getDefStations()

static ArrayList*<* Integer *>* com.example.myapplication.GlobalStorage.getDefStations ( ) [static]

Returns the defect stations as ArrayList

#### Returns

the defectStations ArrayList

#### getFavStations()

static ArrayList*<* Integer *>* com.example.myapplication.GlobalStorage.getFavStations ( ) [static]

Returns all favorite stations

#### Returns

The favoriteStation ArrayList

#### getSaveCheckedState()

static [SaveCheckedState](#_bookmark177) com.example.myapplication.GlobalStorage.getSaveCheckedState ( ) [static]

Returns the [SaveCheckedState](#_bookmark177)

#### Returns

saveCheckedState

#### setAllStations()

static void com.example.myapplication.GlobalStorage.setAllStations ( ArrayList*<* [Ladestation](#_bookmark69) *> allStations* ) [static]

Set all stations in global storage

* 1. **com.example.myapplication.HomeFragment Class Reference 15**

**Parameters**

The ArrayList to set the stations in Global Storage to

*allStations*

#### setDefStations()

static void com.example.myapplication.GlobalStorage.setDefStations ( ArrayList*<* Integer *> defStations* ) [static]

#### setFavStations()

static void com.example.myapplication.GlobalStorage.setFavStations ( ArrayList*<* Integer *> favStations* ) [static]

Sets the favorite stations in Global Storage to the passed ArrayList

#### Parameters

the ArrayList to set the Global Storage's array list to.

*favStations*

#### setSaveCheckedState()

static void com.example.myapplication.GlobalStorage.setSaveCheckedState ( [SaveCheckedState](#_bookmark177) *saveCheckedState* ) [static]

Sets the [GlobalStorage](#_bookmark42)'s [SaveCheckedState](#_bookmark177)

#### Parameters

the state to set the checkedState to

*saveCheckedState*

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

* + - * + app/src/main/java/com/example/myapplication/[GlobalStorage.java](#_bookmark297)

## com.example.myapplication.HomeFragment Class Reference

Inheritance diagram for com.example.myapplication.HomeFragment:

|  |  |
| --- | --- |
| Fragment | |
|  |  |
| com.example.myapplication.HomeFragment | |

### Public Member Functions

* + - View [onCreateView](#_bookmark67) (@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState)

### Member Function Documentation

#### onCreateView()

View com.example.myapplication.HomeFragment.onCreateView ( @NonNull LayoutInflater *inflater,*

@Nullable ViewGroup *container,*

@Nullable Bundle *savedInstanceState* )

#### Parameters

|  |  |
| --- | --- |
| *inflater* | The inflater inflates |
| *container* | The container contains |
| *savedInstanceState* | The savedInstanceState saves the Instance state |

**Returns**

Returns the View

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

* app/src/main/java/com/example/myapplication/[HomeFragment.java](#_bookmark299)

## com.example.myapplication.Ladestation Class Reference

### Classes

* + - enum [ModuleType](#_bookmark162)
    - enum [PlugType](#_bookmark167)

### Public Member Functions

* + - String [getOperator](#_bookmark96) ()
    - String [getStreet](#_bookmark128) ()
    - String [getNumber](#_bookmark91) ()
    - String [getAdditional](#_bookmark73) ()
    - int [getPostalCode](#_bookmark107) ()
    - String [getLocation](#_bookmark83) ()
    - String [getState](#_bookmark127) ()
    - String [getArea](#_bookmark74) ()
    - float [getLat](#_bookmark82) ()
    - float [getLon](#_bookmark87) ()
    - String [getInstallationDate](#_bookmark80) ()
    - float [getConnPower](#_bookmark78) ()
    - [ModuleType](#_bookmark162) [getModuleType](#_bookmark89) ()
    - int [getNumberOfConnections](#_bookmark92) ()
    - List*<* [PlugType](#_bookmark167) *>* [getPlugTypes\_1](#_bookmark98) ()
    - float [getPower\_1](#_bookmark109) ()
    - String [getPublicKey\_1](#_bookmark118) ()
    - List*<* [PlugType](#_bookmark167) *>* [getPlugTypes\_2](#_bookmark100) ()
    - float [getPower\_2](#_bookmark110) ()
    - String [getPublicKey\_2](#_bookmark119) ()
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    - float [getPower\_3](#_bookmark114) ()
    - String [getPublicKey\_3](#_bookmark123) ()
    - List*<* [PlugType](#_bookmark167) *>* [getPlugTypes\_4](#_bookmark105) ()
    - float [getPower\_4](#_bookmark116) ()
    - String [getPublicKey\_4](#_bookmark125) ()

### Public Attributes

* + - int [id](#_bookmark133)

### Member Function Documentation

#### getAdditional()

String com.example.myapplication.Ladestation.getAdditional ( )

Getter for additional

#### Returns

additional

#### getArea()

String com.example.myapplication.Ladestation.getArea ( )

Getter for area

#### Returns

area

#### getConnPower()

float com.example.myapplication.Ladestation.getConnPower ( )

Getter for conn\_power

#### Returns

conn\_power

#### getInstallationDate()

String com.example.myapplication.Ladestation.getInstallationDate ( )

Getter for installation\_date

#### Returns

installation\_date

#### getLat()

float com.example.myapplication.Ladestation.getLat ( )

Getter for lat

#### Returns

lat

#### getLocation()

String com.example.myapplication.Ladestation.getLocation ( )

Getter for location

#### Returns

location

#### getLon()

float com.example.myapplication.Ladestation.getLon ( )

Getter for lon

#### Returns

lon

#### getModuleType()

[ModuleType](#_bookmark162) com.example.myapplication.Ladestation.getModuleType ( )

Getter for module\_type

#### Returns

module\_type

#### getNumber()

String com.example.myapplication.Ladestation.getNumber ( )

Getter for number

#### Returns

number

#### getNumberOfConnections()

int com.example.myapplication.Ladestation.getNumberOfConnections ( )

Getter for number\_of\_connections

#### Returns

number\_of\_connections

#### getOperator()

String com.example.myapplication.Ladestation.getOperator ( )

Getter for operator

#### Returns

operator

#### getPlugTypes\_1()

List*<* [PlugType](#_bookmark167) *>* com.example.myapplication.Ladestation.getPlugTypes\_1 ( )

Getter for plug\_types\_1

#### Returns

plug\_types\_1

#### getPlugTypes\_2()

List*<* [PlugType](#_bookmark167) *>* com.example.myapplication.Ladestation.getPlugTypes\_2 ( )

Getter for plug\_types\_2

#### Returns

plug\_types\_2

#### getPlugTypes\_3()

List*<* [PlugType](#_bookmark167) *>* com.example.myapplication.Ladestation.getPlugTypes\_3 ( )

Getter for plug\_types\_3

#### Returns

plug\_types\_3

#### getPlugTypes\_4()

List*<* [PlugType](#_bookmark167) *>* com.example.myapplication.Ladestation.getPlugTypes\_4 ( )

Getter for plug\_types\_4

#### Returns

plug\_types\_4

#### getPostalCode()

int com.example.myapplication.Ladestation.getPostalCode ( )

Getter for postal\_code

#### Returns

postal\_code

#### getPower\_1()

float com.example.myapplication.Ladestation.getPower\_1 ( )

Getter for power\_1

#### Returns

power\_1

#### getPower\_2()

float com.example.myapplication.Ladestation.getPower\_2 ( )

Getter for power\_2

#### Returns

power\_2

#### getPower\_3()

float com.example.myapplication.Ladestation.getPower\_3 ( )

Getter for power\_3

#### Returns

power\_3

#### getPower\_4()

float com.example.myapplication.Ladestation.getPower\_4 ( )

Getter for power\_4

#### Returns

power\_4

#### getPublicKey\_1()

String com.example.myapplication.Ladestation.getPublicKey\_1 ( )

Getter for public\_key\_1

#### Returns

public\_key\_1

#### getPublicKey\_2()

String com.example.myapplication.Ladestation.getPublicKey\_2 ( )

Getter for public\_key\_2

#### Returns

public\_key\_2

#### getPublicKey\_3()

String com.example.myapplication.Ladestation.getPublicKey\_3 ( )

Getter for public\_key\_3

#### Returns

public\_key\_3

#### getPublicKey\_4()

String com.example.myapplication.Ladestation.getPublicKey\_4 ( )

Getter for public\_key\_4

#### Returns

public\_key\_4

#### getState()

String com.example.myapplication.Ladestation.getState ( )

Getter for location

#### Returns

location

#### getStreet()

String com.example.myapplication.Ladestation.getStreet ( )

Getter for Street

#### Returns

street

### Member Data Documentation

#### id

int com.example.myapplication.Ladestation.id

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

* + - * + app/src/main/java/com/example/myapplication/[Ladestation.java](#_bookmark301)

## com.example.myapplication.LoginFragment Class Reference

Inheritance diagram for com.example.myapplication.LoginFragment:

|  |  |
| --- | --- |
| Fragment | |
|  |  |
| com.example.myapplication.LoginFragment | |

### Public Member Functions

* + - View [onCreateView](#_bookmark138) (@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState)

### Member Function Documentation

#### onCreateView()

View com.example.myapplication.LoginFragment.onCreateView ( @NonNull LayoutInflater *inflater,*

@Nullable ViewGroup *container,*

@Nullable Bundle *savedInstanceState* )

* 1. **com.example.myapplication.MainActivity Class Reference 25**

**Parameters**

|  |  |
| --- | --- |
| *inflater* |  |
| *container* |  |
| *savedInstanceState* |  |

**Returns**

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

* + - app/src/main/java/com/example/myapplication/[LoginFragment.java](#_bookmark302)

## com.example.myapplication.MainActivity Class Reference

Inheritance diagram for com.example.myapplication.MainActivity:

|  |  |
| --- | --- |
| AppCompatActivity | |
|  |  |
| com.example.myapplication.MainActivity | |

### Static Public Member Functions

* + - static NavigationBarView [getBottomNav](#_bookmark144) ()

### Static Public Attributes

* + - static boolean [onServiceFragment](#_bookmark150) = false
    - static LatLng [userLocation](#_bookmark152) = new LatLng(49.872768, 8.651180)

### Protected Member Functions

* + - void [onCreate](#_bookmark146) (Bundle savedInstanceState)

### Member Function Documentation

#### getBottomNav()

static NavigationBarView com.example.myapplication.MainActivity.getBottomNav ( ) [static]

#### onCreate()

void com.example.myapplication.MainActivity.onCreate ( Bundle *savedInstanceState* ) [protected]

Function triggers on create

**Parameters**

*savedInstanceState*

### Member Data Documentation

#### onServiceFragment

boolean com.example.myapplication.MainActivity.onServiceFragment = false [static]

#### userLocation

LatLng com.example.myapplication.MainActivity.userLocation = new LatLng(49.872768, 8.651180) [static]

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

* + - * + app/src/main/java/com/example/myapplication/[MainActivity.java](#_bookmark306)

## com.example.myapplication.MapFragment Class Reference

Inheritance diagram for com.example.myapplication.MapFragment:

|  |  |
| --- | --- |
| Fragment | |
|  |  |
| com.example.myapplication.MapFragment | |

### Public Member Functions

* + - View [onCreateView](#_bookmark160) (@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState)
    - void [onConfigurationChanged](#_bookmark156) (@NonNull Configuration newConfig)

### Member Function Documentation

#### com.example.myapplication.Ladestation.ModuleType Enum Reference 27

#### onConfigurationChanged()

void com.example.myapplication.MapFragment.onConfigurationChanged ( @NonNull Configuration *newConfig* )

#### onCreateView()

View com.example.myapplication.MapFragment.onCreateView ( @NonNull LayoutInflater *inflater,*

@Nullable ViewGroup *container,*

@Nullable Bundle *savedInstanceState* )

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

* + - * + app/src/main/java/com/example/myapplication/[MapFragment.java](#_bookmark308)

## com.example.myapplication.Ladestation.ModuleType Enum Reference

### Public Attributes

* [SerializedName](#_bookmark165) =("Normalladeeinrichtung") STANDARD

### Member Data Documentation

#### SerializedName

com.example.myapplication.Ladestation.ModuleType.SerializedName =("Normalladeeinrichtung") STANDARD

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

* + - * + app/src/main/java/com/example/myapplication/[Ladestation.java](#_bookmark301)

## com.example.myapplication.Ladestation.PlugType Enum Reference

### Public Attributes

* [SerializedName](#_bookmark171) =("AC Steckdose Typ 2") AC\_PLUG\_TYPE\_2

### Member Data Documentation

#### SerializedName

com.example.myapplication.Ladestation.PlugType.SerializedName =("AC Steckdose Typ 2") AC\_*←>* PLUG\_TYPE\_2

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

* + - * + app/src/main/java/com/example/myapplication/[Ladestation.java](#_bookmark301)

## com.example.myapplication.PopUpService Class Reference

### Public Member Functions

* [PopUpService](#_bookmark176) (Context context, [StationAdapter](#_bookmark239) stationAdapter, [SaveCheckedState](#_bookmark177) saveCheckedState)

### Constructor & Destructor Documentation

#### PopUpService()

com.example.myapplication.PopUpService.PopUpService ( Context *context,*

[StationAdapter](#_bookmark239) *stationAdapter,*

[SaveCheckedState](#_bookmark177) *saveCheckedState* )

Constructor

#### Parameters

|  |  |
| --- | --- |
| *context* | The context |
| *stationAdapter* | the current station adapter |
| *saveCheckedState* | the savestate |

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

* app/src/main/java/com/example/myapplication/[PopUpService.java](#_bookmark310)
  1. **com.example.myapplication.SaveCheckedState Class Reference 29**

## com.example.myapplication.SaveCheckedState Class Reference

### Public Member Functions

* [SaveCheckedState](#_bookmark182) ()
* boolean [isShowFavourites](#_bookmark188) ()
* void [setShowFavourites](#_bookmark196) (boolean showFavourites)
* boolean [isShowFastCharging](#_bookmark187) ()
* void [setShowFastCharging](#_bookmark194) (boolean showFastCharging)
* int [getSearchRange](#_bookmark185) ()
* void [setSearchRange](#_bookmark192) (int searchRange)

### Constructor & Destructor Documentation

#### SaveCheckedState()

com.example.myapplication.SaveCheckedState.SaveCheckedState ( )

Constructor

### Member Function Documentation

#### getSearchRange()

int com.example.myapplication.SaveCheckedState.getSearchRange ( )

Returns showFastCharging

#### Returns

showFastCharging

#### isShowFastCharging()

boolean com.example.myapplication.SaveCheckedState.isShowFastCharging ( )

Returns showFastCharging

#### Returns

showFastCharging

#### isShowFavourites()

boolean com.example.myapplication.SaveCheckedState.isShowFavourites ( )

Returns showFavourites

#### Returns

showFavourites

#### setSearchRange()

void com.example.myapplication.SaveCheckedState.setSearchRange ( int *searchRange* )

Returns showFavourites

#### Returns

showFavourites

#### setShowFastCharging()

void com.example.myapplication.SaveCheckedState.setShowFastCharging ( boolean *showFastCharging* )

Returns showFastCharging

#### Returns

showFastCharging

#### setShowFavourites()

void com.example.myapplication.SaveCheckedState.setShowFavourites ( boolean *showFavourites* )

Returns showFavourites

#### Returns

showFavourites

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

* + - * + app/src/main/java/com/example/myapplication/[SaveCheckedState.java](#_bookmark313)
  1. **com.example.myapplication.ServiceFragment Class Reference 31**

## com.example.myapplication.ServiceFragment Class Reference

Inheritance diagram for com.example.myapplication.ServiceFragment:

|  |  |
| --- | --- |
| Fragment | |
|  |  |
| com.example.myapplication.ServiceFragment | |

### Public Member Functions

* View [onCreateView](#_bookmark202) (@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState)

### Member Function Documentation

#### onCreateView()

View com.example.myapplication.ServiceFragment.onCreateView ( @NonNull LayoutInflater *inflater,*

@Nullable ViewGroup *container,*

@Nullable Bundle *savedInstanceState* )

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

* + - * + app/src/main/java/com/example/myapplication/[ServiceFragment.java](#_bookmark315)

## com.example.myapplication.SQLiteHelper Class Reference

Inheritance diagram for com.example.myapplication.SQLiteHelper:

|  |  |
| --- | --- |
| SQLiteOpenHelper | |
|  |  |
| com.example.myapplication.SQLiteHelper | |

### Public Member Functions

* [SQLiteHelper](#_bookmark208) (Context context)
* void [onCreate](#_bookmark211) (SQLiteDatabase sqLiteDatabase)
* void [onUpgrade](#_bookmark213) (SQLiteDatabase sqLiteDatabase, int i, int i1)
* void [saveSingleFavoriteToDB](#_bookmark224) (int id)
* void [removeSingleFavoriteFromDB](#_bookmark220) (int id)
* ArrayList*<* Integer *>* [readFavouritesFromDB](#_bookmark214) ()
* void [saveSingleFlagToDB](#_bookmark227) (int id)
* ArrayList*<* Integer *>* [readFlagsFromDB](#_bookmark218) ()
* void [removeSingleReportFromDB](#_bookmark222) (int id)

### Static Public Attributes

* static final String [DATABASE\_NAME](#_bookmark232) = "database.db"
* static final String [FAVOURITE\_TABLE\_NAME](#_bookmark234) = "favourites"
* static final String [REPORTS\_TABLE\_NAME](#_bookmark235) = "reports"
* static final String [ATTRIBUTE\_ID](#_bookmark230) = "ID"

### Constructor & Destructor Documentation

#### SQLiteHelper()

com.example.myapplication.SQLiteHelper.SQLiteHelper ( Context *context* )

Constructor

**Parameters**

*context*

### Member Function Documentation

#### onCreate()

void com.example.myapplication.SQLiteHelper.onCreate ( SQLiteDatabase *sqLiteDatabase* )

Creates the basic DB

#### Parameters

the SQLiteDatabase

*sqLiteDatabase*

#### onUpgrade()

void com.example.myapplication.SQLiteHelper.onUpgrade ( SQLiteDatabase *sqLiteDatabase,*

int *i,*

int *i1* )

#### com.example.myapplication.SQLiteHelper Class Reference 33

#### readFavouritesFromDB()

ArrayList*<* Integer *>* com.example.myapplication.SQLiteHelper.readFavouritesFromDB ( )

Returns the favorites as ArrayList

#### Returns

The favorites as ArrayList

#### readFlagsFromDB()

ArrayList*<* Integer *>* com.example.myapplication.SQLiteHelper.readFlagsFromDB ( )

Reads all reported stations from DB and returns as arrayList

#### Returns

the arrayList

#### removeSingleFavoriteFromDB()

void com.example.myapplication.SQLiteHelper.removeSingleFavoriteFromDB ( int *id* )

Removes a single favorite from db

#### Parameters

the ladestation's ID

*id*

#### removeSingleReportFromDB()

void com.example.myapplication.SQLiteHelper.removeSingleReportFromDB ( int *id* )

Remove a single Report from DB

#### Parameters

The ladestations ID to remove the report from

*id*

#### saveSingleFavoriteToDB()

void com.example.myapplication.SQLiteHelper.saveSingleFavoriteToDB ( int *id* )

Saves a single favorite to the database

#### Parameters

the ID of the ladestation to save as fav

*id*

#### saveSingleFlagToDB()

void com.example.myapplication.SQLiteHelper.saveSingleFlagToDB ( int *id* )

Saves a single reported ladestations id to db

**Parameters**

The ID of the ladestation

*id*

### Member Data Documentation

#### ATTRIBUTE\_ID

final String com.example.myapplication.SQLiteHelper.ATTRIBUTE\_ID = "ID" [static]

#### DATABASE\_NAME

final String com.example.myapplication.SQLiteHelper.DATABASE\_NAME = "database.db" [static]

#### FAVOURITE\_TABLE\_NAME

final String com.example.myapplication.SQLiteHelper.FAVOURITE\_TABLE\_NAME = "favourites" [static]

#### com.example.myapplication.StationAdapter Class Reference 35

#### REPORTS\_TABLE\_NAME

final String com.example.myapplication.SQLiteHelper.REPORTS\_TABLE\_NAME = "reports" [static]

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

* + - * + app/src/main/java/com/example/myapplication/[SQLiteHelper.java](#_bookmark317)

## com.example.myapplication.StationAdapter Class Reference

Inheritance diagram for com.example.myapplication.StationAdapter:

|  |  |
| --- | --- |
| RecyclerView::Adapter< StationAdapter.ViewHolder > | |
|  |  |
| com.example.myapplication.StationAdapter | |

### Classes

* class [ViewHolder](#_bookmark269)

### Public Member Functions

* [StationAdapter](#_bookmark242) (ArrayList*<* [Ladestation](#_bookmark69) *>* stationList, [SQLiteHelper](#_bookmark204) sqLiteHelper)
* [ViewHolder](#_bookmark269) [onCreateViewHolder](#_bookmark250) (@NonNull ViewGroup parent, int viewType)
* void [onBindViewHolder](#_bookmark248) (@NonNull [ViewHolder](#_bookmark269) holder, int position)
* int [getItemCount](#_bookmark244) ()
* void [toggleButtonRepWorker](#_bookmark254) ([Ladestation](#_bookmark69) ladestation, ImageButton button)
* void [setNewList](#_bookmark252) (ArrayList*<* [Ladestation](#_bookmark69) *>* newList)

### Constructor & Destructor Documentation

#### StationAdapter()

com.example.myapplication.StationAdapter.StationAdapter ( ArrayList*<* [Ladestation](#_bookmark69) *> stationList,* [SQLiteHelper](#_bookmark204) *sqLiteHelper* )

### Member Function Documentation

#### getItemCount()

int com.example.myapplication.StationAdapter.getItemCount ( )

#### onBindViewHolder()

void com.example.myapplication.StationAdapter.onBindViewHolder ( @NonNull [ViewHolder](#_bookmark269) *holder,*

int *position* )

#### onCreateViewHolder()

[ViewHolder](#_bookmark269) com.example.myapplication.StationAdapter.onCreateViewHolder ( @NonNull ViewGroup *parent,*

int *viewType* )

#### setNewList()

void com.example.myapplication.StationAdapter.setNewList ( ArrayList*<* [Ladestation](#_bookmark69) *> newList* )

Sets the stationList to new list

#### Parameters

The new station list

*newList*

#### toggleButtonRepWorker()

void com.example.myapplication.StationAdapter.toggleButtonRepWorker ( [Ladestation](#_bookmark69) *ladestation,*

ImageButton *button* )

Does the same as toggleButtonRep, but allows the worker to "repair" the station

#### Parameters

|  |  |
| --- | --- |
| *ladestation* | The ladestation to repair |
| *button* | The button (the button, button) |

* 1. **com.example.myapplication.StationAPI Class Reference 37**

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

* app/src/main/java/com/example/myapplication/[StationAdapter.java](#_bookmark319)

## com.example.myapplication.StationAPI Class Reference

### Static Public Member Functions

* static [SQLiteHelper](#_bookmark204) [getSqLiteHelper](#_bookmark262) ()
* static void [initialize](#_bookmark263) (Context context)
* static ArrayList*<* [Ladestation](#_bookmark69) *>* [sort](#_bookmark267) (ArrayList*<* [Ladestation](#_bookmark69) *>* stationsList, double lat, final double lon, final int range)
* static ArrayList*<* [Ladestation](#_bookmark69) *>* [getProximityStations](#_bookmark260) (ArrayList*<* [Ladestation](#_bookmark69) *>* stationsList, double lat1, double lon1, int dist)

### Member Function Documentation

#### getProximityStations()

static ArrayList*<* [Ladestation](#_bookmark69) *>* com.example.myapplication.StationAPI.getProximityStations ( ArrayList*<* [Ladestation](#_bookmark69) *> stationsList,*

double *lat1,*

double *lon1,*

int *dist* ) [static]

Returns only the nearby stations, given 2 coordinates and distance

#### Parameters

|  |  |
| --- | --- |
| *stationsList* | The station list |
| *lat1* | the coordinate to use as center |
| *lon1* | the coordinate to use as center |
| *dist* | the distance |

**Returns**

the array of Ladestationen in range

#### getSqLiteHelper()

static [SQLiteHelper](#_bookmark204) com.example.myapplication.StationAPI.getSqLiteHelper ( ) [static]

#### initialize()

static void com.example.myapplication.StationAPI.initialize ( Context *context* ) [static]

Initializes the Station API with default values

#### Parameters

*context*

#### sort()

static ArrayList*<* [Ladestation](#_bookmark69) *>* com.example.myapplication.StationAPI.sort ( ArrayList*<* [Ladestation](#_bookmark69) *> stationsList,*

double *lat,*

final double *lon,*

final int *range* ) [static]

Sorts the array list by distance

#### Parameters

|  |  |
| --- | --- |
| *stationsList* |  |
| *lat* |  |
| *lon* |  |
| *range* |  |

**Returns**

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

* app/src/main/java/com/example/myapplication/[StationAPI.java](#_bookmark322)

## com.example.myapplication.StationAdapter.ViewHolder Class Reference

Inheritance diagram for com.example.myapplication.StationAdapter.ViewHolder:

|  |  |
| --- | --- |
| RecyclerView.ViewHolder | |
|  |  |
| com.example.myapplication.StationAdapter.ViewHolder | |

* 1. **com.example.myapplication.StationAdapter.ViewHolder Class Reference 39**

### Public Member Functions

* [ViewHolder](#_bookmark273) (View itemView)

### Public Attributes

* TextView [stationTextTop](#_bookmark287)
* TextView [stationTextCenter](#_bookmark285)
* TextView [stationTextBottom](#_bookmark281)
* ImageButton [favouriteButton](#_bookmark276)
* ImageButton [reportButton](#_bookmark278)
* int [stationID](#_bookmark280)

### Constructor & Destructor Documentation

#### ViewHolder()

com.example.myapplication.StationAdapter.ViewHolder.ViewHolder ( View *itemView* )

### Member Data Documentation

#### favouriteButton

ImageButton com.example.myapplication.StationAdapter.ViewHolder.favouriteButton

#### reportButton

ImageButton com.example.myapplication.StationAdapter.ViewHolder.reportButton

#### stationID

int com.example.myapplication.StationAdapter.ViewHolder.stationID

#### stationTextBottom

TextView com.example.myapplication.StationAdapter.ViewHolder.stationTextBottom

#### stationTextCenter

TextView com.example.myapplication.StationAdapter.ViewHolder.stationTextCenter

#### stationTextTop

TextView com.example.myapplication.StationAdapter.ViewHolder.stationTextTop

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

* + - * + app/src/main/java/com/example/myapplication/[StationAdapter.java](#_bookmark319)

**Chapter 7**

# File Documentation

## app/build/generated/source/build*←>* Config/debug/com/example/myapplication/BuildConfig.java File Reference

### Classes

* + - class [com.example.myapplication.BuildConfig](#_bookmark14)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/build/generated/source/build*←>* Config/release/com/example/myapplication/BuildConfig.java File Reference

### Classes

* + - class [com.example.myapplication.BuildConfig](#_bookmark14)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/DownloadThread.java File Reference

### Classes

* + - class [com.example.myapplication.DownloadThread](#_bookmark28)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/GlobalStorage.java File Reference

### Classes

* + - class [com.example.myapplication.GlobalStorage](#_bookmark42)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/HomeFragment.java File Reference

### Classes

* + - class [com.example.myapplication.HomeFragment](#_bookmark63)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/Ladestation.java File Reference

### Classes

* + - class [com.example.myapplication.Ladestation](#_bookmark69)
    - enum [com.example.myapplication.Ladestation.PlugType](#_bookmark167)
    - enum [com.example.myapplication.Ladestation.ModuleType](#_bookmark162)

### Packages

* + - package [com.example.myapplication](#_bookmark10)
  1. **app/src/main/java/com/example/myapplication/LoginFragment.java File Reference 43**

## app/src/main/java/com/example/myapplication/LoginFragment.java File Reference

### Classes

* + - class [com.example.myapplication.LoginFragment](#_bookmark135)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/MainActivity.java File Reference

### Classes

* + - class [com.example.myapplication.MainActivity](#_bookmark141)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/MapFragment.java File Reference

### Classes

* + - class [com.example.myapplication.MapFragment](#_bookmark154)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/PopUpService.java File Reference

### Classes

* + - class [com.example.myapplication.PopUpService](#_bookmark173)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/SaveChecked*←>* State.java File Reference

### Classes

* + - class [com.example.myapplication.SaveCheckedState](#_bookmark177)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/Service*←>* Fragment.java File Reference

### Classes

* + - class [com.example.myapplication.ServiceFragment](#_bookmark197)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/SQLiteHelper.java File Reference

### Classes

* + - class [com.example.myapplication.SQLiteHelper](#_bookmark204)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/StationAdapter.java File Reference

### Classes

* + - class [com.example.myapplication.StationAdapter](#_bookmark239)
    - class [com.example.myapplication.StationAdapter.ViewHolder](#_bookmark269)
  1. **app/src/main/java/com/example/myapplication/StationAPI.java File Reference 45**

### Packages

* + - package [com.example.myapplication](#_bookmark10)

## app/src/main/java/com/example/myapplication/StationAPI.java File Reference

### Classes

* class [com.example.myapplication.StationAPI](#_bookmark257)

### Packages

* package [com.example.myapplication](#_bookmark10)

## app/src/test/java/com/example/myapplication/ExampleUnitTest.java File Reference

### Classes

* + - class [com.example.myapplication.ExampleUnitTest](#_bookmark36)

### Packages

* + - package [com.example.myapplication](#_bookmark10)

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