ImageSlide

Generated by Doxygen 1.8.6

Mon Dec 7 2015 17:47:44

Contents

1 Hierarchical Index **1**

1.1 Class Hierarchy . . . 1

2 Class Index **3**

2.1 Class List . . . 3

3 Class Documentation **5**

3.1 team16_3308.imageslide.DBHandler Class Reference . . . 5

3.1.1 Detailed Description . . . 5

3.1.2 Constructor & Destructor Documentation . . . 5

3.1.2.1 DBHandler . . . 5

3.1.3 Member Function Documentation . . . 5

3.1.3.1 close . . . 5

3.1.3.2 insertSub . . . 6

3.1.3.3 open . . . 6

3.1.3.4 readAll . . . 6

3.2 team16_3308.imageslide.DownloadImage Class Reference . . . 6

3.2.1 Detailed Description . . . 7

3.2.2 Constructor & Destructor Documentation . . . 7

3.2.2.1 DownloadImage . . . 7

3.2.3 Member Function Documentation . . . 7

3.2.3.1 doInBackground . . . 7

3.2.3.2 onPostExecute . . . 7

3.3 team16_3308.imageslide.DownloadSubreddit Class Reference . . . 7

3.3.1 Detailed Description . . . 8

3.3.2 Constructor & Destructor Documentation . . . 8

3.3.2.1 DownloadSubreddit . . . 8

3.3.3 Member Function Documentation . . . 8

3.3.3.1 doInBackground . . . 8

3.3.3.2 getConnection . . . 8

3.4 team16_3308.imageslide.ImageSitesActivity Class Reference . . . 9

3.4.1 Detailed Description . . . 9

3.4.2 Member Function Documentation . . . 9
3.4.2.1 backButtonClick . . . 9
3.4.2.2 onCreate . . . 9
3.4.2.3 sendSub . . . 9
3.5 team16_3308.imageslide.ImagesScrollView Class Reference . . . 10
3.5.1 Detailed Description . . . 10
3.5.2 Constructor & Destructor Documentation . . . 10
3.5.2.1 ImagesScrollView . . . 10
3.5.2.2 ImagesScrollView . . . 10
3.5.3 Member Function Documentation . . . 11
3.5.3.1 loadImage . . . 11
3.5.3.2 loadInitialImages . . . 11
3.5.3.3 onScrollChanged . . . 11
3.6 team16_3308.imageslide.MainActivity Class Reference . . . 11
3.6.1 Detailed Description . . . 12
3.6.2 Member Function Documentation . . . 12
3.6.2.1 closeMenu . . . 12
3.6.2.2 imageSitesButtonClick . . . 12
3.6.2.3 menuButtonClick . . . 12
3.6.2.4 onCreate . . . 12
3.6.2.5 outsideMenuClick . . . 12
3.6.2.6 settingsButtonClick . . . 12
3.7 team16_3308.imageslide.RetrieveUrls Class Reference . . . 13
3.7.1 Detailed Description . . . 13
3.7.2 Constructor & Destructor Documentation . . . 13
3.7.2.1 RetrieveUrls . . . 13
3.7.3 Member Function Documentation . . . 13
3.7.3.1 getFinalUrls . . . 13
3.7.3.2 interpretSubreddits . . . 13
3.7.3.3 parseJSON . . . 13
3.7.3.4 readDB . . . 14
3.7.3.5 retrieveJSON . . . 14
3.8 team16_3308.imageslide.SettingsActivity Class Reference . . . 14
3.8.1 Detailed Description . . . 14
3.8.2 Member Function Documentation . . . 15
3.8.2.1 backButtonClick . . . 15
3.8.2.2 onCreate . . . 16
3.9 team16_3308.imageslide.SingleImageActivity Class Reference . . . 16
3.9.1 Detailed Description . . . 16
3.9.2 Member Function Documentation . . . 16

3.9.2.1 addImage 16
3.9.2.2 backButtonClick 17
3.9.2.3 onCreate 17
3.10 team16_3308.imageslide.SingleImageButton Class Reference 17
3.10.1 Detailed Description 17
3.10.2 Constructor & Destructor Documentation 18
3.10.2.1 SingleImageButton 18
3.10.2.2 SingleImageButton 18
3.10.3 Member Function Documentation 18
3.10.3.1 setElements 18

Index **19**

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

team16_3308.imageslide.DBHandler 5
team16_3308.imageslide.RetrieveUrls 13
AppCompatActivity
    team16_3308.imageslide.ImageSitesActivity 9
    team16_3308.imageslide.MainActivity 11
    team16_3308.imageslide.SettingsActivity 14
    team16_3308.imageslide.SingleImageActivity 16
AsyncTask
    team16_3308.imageslide.DownloadImage 6
    team16_3308.imageslide.DownloadSubreddit 7
ImageButton
    team16_3308.imageslide.SingleImageButton 17
ScrollView
    team16_3308.imageslide.ImagesScrollView 10

Chapter 2

Class Index

2.1 Class List

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

team16_3308.imageslide.DBHandler 5
team16_3308.imageslide.DownloadImage 6
team16_3308.imageslide.DownloadSubreddit 7
team16_3308.imageslide.ImageSitesActivity 9
team16_3308.imageslide.ImagesScrollView 10
team16_3308.imageslide.MainActivity 11
team16_3308.imageslide.RetrieveUrls 13
team16_3308.imageslide.SettingsActivity 14
team16_3308.imageslide.SingleImageActivity 16
team16_3308.imageslide.SingleImageButton 17

Chapter 3

Class Documentation

3.1 team16_3308.imageslide.DBHandler Class Reference

Public Member Functions

- DBHandler (Context ctx)
- DBHandler open () throws SQLException
- void close ()
- long insertSub (String subname)
- ArrayList< String > readAll ()
- boolean **deleteSub** (String subname)

Static Public Attributes

- static final String **DATABASE_NAME** = "sites"
- static final String **DATABASE_TABLE** = "reddit"
- static final int **DATABASE_VERSION** = 1
- static final String **KEY_ROWID** = "_id"
- static final String **KEY_SUBNAME** = "subname"

3.1.1 Detailed Description

Creates functions to manage database

3.1.2 Constructor & Destructor Documentation

3.1.2.1 team16_3308.imageslide.DBHandler.DBHandler (Context *ctx*) [inline]

DBHandler constructor

Parameters

ctx	Context where the database is coming from

3.1.3 Member Function Documentation

3.1.3.1 void team16_3308.imageslide.DBHandler.close ( ) [inline]

Used for activity to close database

3.1.3.2 long team16_3308.imageslide.DBHandler.insertSub (String *subname*) [inline]

Places a subreddit name into the database

Parameters

subname	The name of the subreddit

Returns

Inserts string into database

3.1.3.3 DBHandler team16_3308.imageslide.DBHandler.open ( ) throws SQLException [inline]

Used for activities to open database to be used

Returns

Returns database

Exceptions

SQLException	If there is an error will throw SQL exception

3.1.3.4 ArrayList<String> team16_3308.imageslide.DBHandler.readAll ( ) [inline]

Takes all rows in database and places them into an ArrayList to return

Returns

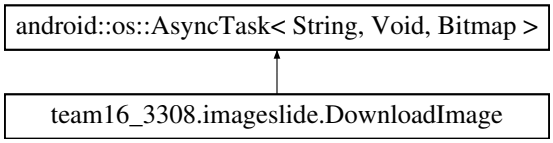
Returns ArrayList of database subreddit names

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

- DBHandler.java

3.2 team16_3308.imageslide.DownloadImage Class Reference

Inheritance diagram for team16_3308.imageslide.DownloadImage:



Public Member Functions

- DownloadImage (ImageButton panel, int displayWidthSample, int displayWidth, int style)

Protected Member Functions

- Bitmap doInBackground (String...urls)
- void onPostExecute (Bitmap image)

3.2.1 Detailed Description

Downloads an image from a url and adds the image to a given ImageButton.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 team16_3308.imageslide.DownloadImage.DownloadImage (ImageButton *panel,* int *displayWidthSample,* int *displayWidth,* int *style*) [inline]

Constructor for DownloadImage.

Parameters

panel	ImageButton panel that the image will be added to.
displayWidth-Sample	Width that will be used to calculate the sample size of the image.
displayWidth	Actual width that the image needs to be scaled to.
style	How the image needs to be scales. 1(Gridlayout, not squares) 2(Gridlayout, squares) 3(single image)

3.2.3 Member Function Documentation

3.2.3.1 Bitmap team16_3308.imageslide.DownloadImage.doInBackground (String... *urls*) [inline],[protected]

Background process of AsyncTask used for loading an image.

Parameters

urls	Url that contains the image to be loaded.

Returns

The Bitmap of the image that was downloaded from the url.

3.2.3.2 void team16_3308.imageslide.DownloadImage.onPostExecute (Bitmap *image*) [inline],[protected]

PostExecute process of AsyncTask.

Parameters

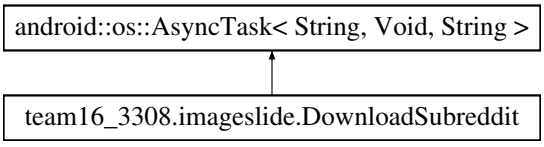
image	Bitmap that was created from the image url.

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

- DownloadImage.java

3.3 team16_3308.imageslide.DownloadSubreddit Class Reference

Inheritance diagram for team16_3308.imageslide.DownloadSubreddit:



Public Member Functions

- DownloadSubreddit (String url)

Static Public Member Functions

- static HttpURLConnection getConnection (String url)

Protected Member Functions

- String doInBackground (String...subreddits)

3.3.1 Detailed Description

Downloads the json from a reddit.com/r/.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 team16_3308.imageslide.DownloadSubreddit.DownloadSubreddit (String *url*) [inline]

Constructor for DownloadSubreddit

Parameters

url	Url that the subreddit will be appended to.

3.3.3 Member Function Documentation

3.3.3.1 String team16_3308.imageslide.DownloadSubreddit.doInBackground (String... *subreddits*) [inline], [protected]

Background process of AsyncTask used for retrieving the json.

Parameters

subreddits	Subreddit name that the json will be pulled from.

Returns

String of json retrieved from the subreddit page.

3.3.3.2 static HttpURLConnection team16_3308.imageslide.DownloadSubreddit.getConnection (String *url*) [inline], [static]

Opens a connection with a url

Parameters

url	Url that the connection will be made to.

Returns

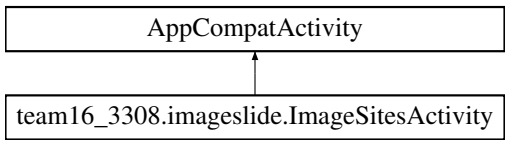
HTTPURLConnection that was made from the url or null if the connection failed.

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

- DownloadSubreddit.java

3.4 team16_3308.imageslide.ImageSitesActivity Class Reference

Inheritance diagram for team16_3308.imageslide.ImageSitesActivity:



Public Member Functions

- void sendSub (View view)
- void backButtonClick (View view)

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

3.4.1 Detailed Description

Activity that is used to select where to get images from for the application.

3.4.2 Member Function Documentation

3.4.2.1 void team16_3308.imageslide.ImageSitesActivity.backButtonClick (View *view*) [inline]

Finishes/closes the image sites activity and returns to the previous activity.

Parameters

view	Reference to the backButton.

3.4.2.2 void team16_3308.imageslide.ImageSitesActivity.onCreate (Bundle *savedInstanceState*) [inline], [protected]

Basic initialization of ImageSitesActivity.

Parameters

savedInstance-State	Saved state of previous application instance.

3.4.2.3 void team16_3308.imageslide.ImageSitesActivity.sendSub (View *view*) [inline]

On button hit, sub is saved into database and activity is refreshed

Parameters

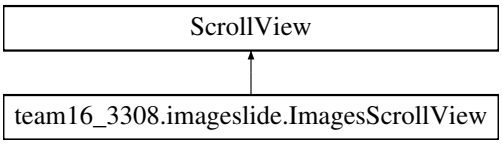
view	Reference to the backButton

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

- ImageSitesActivity.java

3.5 team16_3308.imageslide.ImagesScrollView Class Reference

Inheritance diagram for team16_3308.imageslide.ImagesScrollView:



Public Member Functions

- ImagesScrollView (Context context)
- ImagesScrollView (Context context, AttributeSet attributeSet)

Protected Member Functions

- void onScrollChanged (int x, int y, int oldX, int oldY)
- void loadInitialImages (ArrayList< String > urls)
- void loadImage (String url)

3.5.1 Detailed Description

ScrollView that will contain multiple images for the main layout.

3.5.2 Constructor & Destructor Documentation

3.5.2.1 team16_3308.imageslide.ImagesScrollView.ImagesScrollView (Context *context*) [inline]

Basic constructor

Parameters

context	Context of the activity that the ImageScrollView is being added to.

3.5.2.2 team16_3308.imageslide.ImagesScrollView.ImagesScrollView (Context *context*, AttributeSet *attributeSet*) [inline]

Basic constructor with attributes.

Parameters

context	Context of the activity that the ImageScrollView is being added to.
attributeSet	Attribute parameters.

3.5.3 Member Function Documentation

3.5.3.1 void team16_3308.imageslide.ImagesScrollView.loadImage (String *url*) [inline], [protected]

Loads an individual image into the ScrollView from a url.

Parameters

url	Url that the image will be loaded from.

3.5.3.2 void team16_3308.imageslide.ImagesScrollView.loadInitialImages (ArrayList< String > *urls*) [inline], [protected]

Loads the first set of images into the ScrollView.

3.5.3.3 void team16_3308.imageslide.ImagesScrollView.onScrollChanged (int *x*, int *y*, int *oldX*, int *oldY*) [inline], [protected]

Recognizes when the ScrollView has been moved up or down. Checks to see if the ScrollView is at the bottom, if so the application adds more images.

Parameters

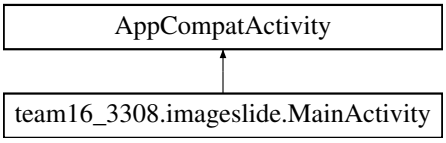
x	mScrollX
y	mScrollY
oldX	oldX
oldY	oldY

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

- ImagesScrollView.java

3.6 team16_3308.imageslide.MainActivity Class Reference

Inheritance diagram for team16_3308.imageslide.MainActivity:



Public Member Functions

- void menuButtonClick (View view)
- void imageSitesButtonClick (View view)
- void settingsButtonClick (View view)
- void outsideMenuClick (View view)
- void closeMenu (View view)

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

3.6.1 Detailed Description

Startup activity for application.

3.6.2 Member Function Documentation

3.6.2.1 void team16_3308.imageslide.MainActivity.closeMenu (View *view*) [inline]

Closes the menu so it is no longer being displayed.

Parameters

view	Reference to the menu layout.

3.6.2.2 void team16_3308.imageslide.MainActivity.imageSitesButtonClick (View *view*) [inline]

Starts an instance of the imageSites Activity.

Parameters

view	Reference to the imageSitesButton.

3.6.2.3 void team16_3308.imageslide.MainActivity.menuButtonClick (View *view*) [inline]

Displays the side menu on the screen.

Parameters

view	Reference to the menuButton.

3.6.2.4 void team16_3308.imageslide.MainActivity.onCreate (Bundle *savedInstanceState*) [inline], [protected]

Basic initialization of MainActivity.

Parameters

savedInstance-State	Saved state of previous application instance.

3.6.2.5 void team16_3308.imageslide.MainActivity.outsideMenuClick (View *view*) [inline]

Recognizes when a click outside the menu has occurred.

Parameters

view	Reference to the outsideMenu view.

3.6.2.6 void team16_3308.imageslide.MainActivity.settingsButtonClick (View *view*) [inline]

Starts an instance of the settings Activity.

Parameters

view	Reference to the settingsButton.

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

- MainActivity.java

3.7 team16_3308.imageslide.RetrieveUrls Class Reference

Public Member Functions

- RetrieveUrls (Context context)
- void readDB (Context context)
- void interpretSubreddits ()
- void parseJSON (String rawJSON)
- String retrieveJSON (String subreddit)
- ArrayList< String > getFinalUrls ()

3.7.1 Detailed Description

Accesses the database for all selected image sites and gets urls of images from those sites.

3.7.2 Constructor & Destructor Documentation

3.7.2.1 team16_3308.imageslide.RetrieveUrls.RetrieveUrls (Context *context*) [inline]

Constructor that will execute methods in order to set finalURLs

Parameters

context	Context of the activity that contains the database.

3.7.3 Member Function Documentation

3.7.3.1 ArrayList<String> team16_3308.imageslide.RetrieveUrls.getFinalUrls ( ) [inline]

Returns the finalUrls

Returns

ArrayList of all the urls that were retrieved.

3.7.3.2 void team16_3308.imageslide.RetrieveUrls.interpretSubreddits ( ) [inline]

Iterates through subredditList and calls methods to retrieve and parseJSON on each subreddit.

3.7.3.3 void team16_3308.imageslide.RetrieveUrls.parseJSON (String *rawJSON*) [inline]

Parses the JSON of the json returned from a url, and gets all urls that are image format.

Parameters

rawJSON	RawJSON from a subreddit.

3.7.3.4 void team16_3308.imageslide.RetrieveUrls.readDB (Context *context*) [inline]

Opens and reads the database for all image sites that should be checked for images.

Parameters

context	Context of the activity that contains the database.

3.7.3.5 String team16_3308.imageslide.RetrieveUrls.retrieveJSON (String *subreddit*) [inline]

Attempts to get the JSON from a subreddit url

Parameters

subreddit	The name of the subreddit to get JSON from.

Returns

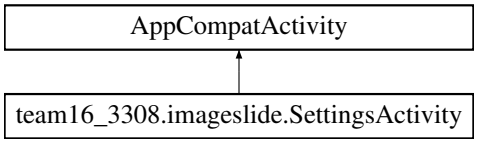
JSON retrieved or NODATA if no JSON was got.

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

- RetrieveUrls.java

3.8 team16_3308.imageslide.SettingsActivity Class Reference

Inheritance diagram for team16_3308.imageslide.SettingsActivity:



Public Member Functions

- void backButtonClick (View view)

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

3.8.1 Detailed Description

Settings activity for application, contains various settings that can be adjusted.

3.8.2 Member Function Documentation

3.8.2.1 void team16_3308.imageslide.SettingsActivity.backButtonClick (View *view*) [inline]

Finishes/closes the settings activity and returns to the previous activity.

Parameters

view	Reference to the backButton.

3.8.2.2 void team16_3308.imageslide.SettingsActivity.onCreate (Bundle *savedInstanceState*) [inline], [protected]

Basic initialization of SettingsActivity.

Parameters

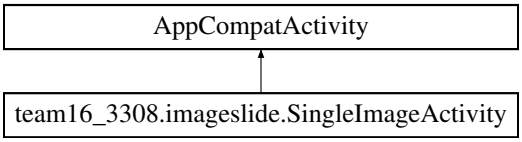
savedInstance-State	Saved state of previous application instance.

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

- SettingsActivity.java

3.9 team16_3308.imageslide.SingleImageActivity Class Reference

Inheritance diagram for team16_3308.imageslide.SingleImageActivity:



Public Member Functions

- void addImage (String url)
- void backButtonClick (View view)

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

3.9.1 Detailed Description

Activity for displaying a single image on the screen.

3.9.2 Member Function Documentation

3.9.2.1 void team16_3308.imageslide.SingleImageActivity.addImage (String *url*) [inline]

Adds an image to the image button of the activity.

Parameters

url	Url that the image will be loaded from.

3.9.2.2 void team16_3308.imageslide.SingleImageActivity.backButtonClick (View *view*) [inline]

Finishes/closes the activity and returns to the previous activity.

Parameters

view	Reference to the backButton.

3.9.2.3 void team16_3308.imageslide.SingleImageActivity.onCreate (Bundle *savedInstanceState*) [inline], [protected]

Basic initialization of SingleImageActivity.

Parameters

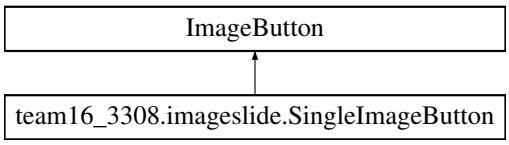
savedInstance-State	Saved state of previous application instance.

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

- SingleImageActivity.java

3.10 team16_3308.imageslide.SingleImageButton Class Reference

Inheritance diagram for team16_3308.imageslide.SingleImageButton:



Public Member Functions

- SingleImageButton (Context context)
- SingleImageButton (Context context, AttributeSet attributeSet)

Protected Member Functions

- void setElements ()

Protected Attributes

- String **url**

3.10.1 Detailed Description

ImageButton that will contain an image for the main application view.

3.10.2 Constructor & Destructor Documentation

3.10.2.1 team16_3308.imageslide.SingleImageButton.SingleImageButton (Context *context*) [inline]

Basic constructor

Parameters

context	Context of the activity that the SingleImageButton is being added to.

3.10.2.2 team16_3308.imageslide.SingleImageButton.SingleImageButton (Context *context*, AttributeSet *attributeSet*) [inline]

Basic constructor with attributes.

Parameters

context	Context of the activity that the SingleImageButton is being added to.
attributeSet	Attribute parameters.

3.10.3 Member Function Documentation

3.10.3.1 void team16_3308.imageslide.SingleImageButton.setElements ( ) [inline], [protected]

Adds and sets the basic elements to the ImageButton. Style and formatting are set. ClickListener is added so the SingleImageButton is able to create a SingleImageActivity.

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

- SingleImageButton.java

Index

addImage
team16_3308::imageslide::SingleImageActivity, 16

backButtonClick
team16_3308::imageslide::ImageSitesActivity, 9
team16_3308::imageslide::SettingsActivity, 15
team16_3308::imageslide::SingleImageActivity, 17

close
team16_3308::imageslide::DBHandler, 5
closeMenu
team16_3308::imageslide::MainActivity, 12

DBHandler
team16_3308::imageslide::DBHandler, 5
doInBackground
team16_3308::imageslide::DownloadImage, 7
team16_3308::imageslide::DownloadSubreddit, 8
DownloadImage
team16_3308::imageslide::DownloadImage, 7
DownloadSubreddit
team16_3308::imageslide::DownloadSubreddit, 8

getConnection
team16_3308::imageslide::DownloadSubreddit, 8
getFinalUrls
team16_3308::imageslide::RetrieveUrls, 13

imageSitesButtonClick
team16_3308::imageslide::MainActivity, 12
ImagesScrollView
team16_3308::imageslide::ImagesScrollView, 10
insertSub
team16_3308::imageslide::DBHandler, 5
interpretSubreddits
team16_3308::imageslide::RetrieveUrls, 13

loadImage
team16_3308::imageslide::ImagesScrollView, 11
loadInitialImages
team16_3308::imageslide::ImagesScrollView, 11

menuButtonClick
team16_3308::imageslide::MainActivity, 12

onCreate
team16_3308::imageslide::ImageSitesActivity, 9
team16_3308::imageslide::MainActivity, 12
team16_3308::imageslide::SettingsActivity, 16
team16_3308::imageslide::SingleImageActivity, 17
onPostExecute
team16_3308::imageslide::DownloadImage, 7
onScrollChanged
team16_3308::imageslide::ImagesScrollView, 11
open
team16_3308::imageslide::DBHandler, 6
outsideMenuClick
team16_3308::imageslide::MainActivity, 12

parseJSON
team16_3308::imageslide::RetrieveUrls, 13

readAll
team16_3308::imageslide::DBHandler, 6
readDB
team16_3308::imageslide::RetrieveUrls, 14
retrieveJSON
team16_3308::imageslide::RetrieveUrls, 14
RetrieveUrls
team16_3308::imageslide::RetrieveUrls, 13

sendSub
team16_3308::imageslide::ImageSitesActivity, 9
setElements
team16_3308::imageslide::SingleImageButton, 18
settingsButtonClick
team16_3308::imageslide::MainActivity, 12
SingleImageButton
team16_3308::imageslide::SingleImageButton, 18

team16_3308.imageslide.DBHandler, 5
team16_3308.imageslide.DownloadImage, 6
team16_3308.imageslide.DownloadSubreddit, 7
team16_3308.imageslide.ImageSitesActivity, 9
team16_3308.imageslide.ImagesScrollView, 10
team16_3308.imageslide.MainActivity, 11
team16_3308.imageslide.RetrieveUrls, 13
team16_3308.imageslide.SettingsActivity, 14
team16_3308.imageslide.SingleImageActivity, 16
team16_3308.imageslide.SingleImageButton, 17
team16_3308::imageslide::DBHandler
close, 5
DBHandler, 5
insertSub, 5
open, 6
readAll, 6
team16_3308::imageslide::DownloadImage
doInBackground, 7
DownloadImage, 7
onPostExecute, 7
team16_3308::imageslide::DownloadSubreddit

doInBackground, 8
DownloadSubreddit, 8
getConnection, 8
team16_3308::imageslide::ImageSitesActivity
backButtonClick, 9
onCreate, 9
sendSub, 9
team16_3308::imageslide::ImagesScrollView
ImagesScrollView, 10
loadImage, 11
loadInitialImages, 11
onScrollChanged, 11
team16_3308::imageslide::MainActivity
closeMenu, 12
imageSitesButtonClick, 12
menuButtonClick, 12
onCreate, 12
outsideMenuClick, 12
settingsButtonClick, 12
team16_3308::imageslide::RetrieveUrls
getFinalUrls, 13
interpretSubreddits, 13
parseJSON, 13
readDB, 14
retrieveJSON, 14
RetrieveUrls, 13
team16_3308::imageslide::SettingsActivity
backButtonClick, 15
onCreate, 16
team16_3308::imageslide::SingleImageActivity
addImage, 16
backButtonClick, 17
onCreate, 17
team16_3308::imageslide::SingleImageButton
setElements, 18
SingleImageButton, 18