Looking Glass

0.9

Generated by Doxygen 1.8.3.1

Wed Apr 10 2013 12:16:00

Contents

1 Looking Glass **1**

2 Hierarchical Index **3**

2.1 Class Hierarchy . . . 3

3 Data Structure Index **5**

3.1 Data Structures . . . 5

4 Data Structure Documentation **7**

4.1 Annotation Class Reference . . . 7

4.2 ARDetailedViewController Class Reference . . . 7

4.2.1 Method Documentation . . . 8

4.2.1.1 setCellDataWithName:andImageName:andText: . . . 8

4.3 ARDetailedViewController() Category Reference . . . 8

4.4 ARMarker Class Reference . . . 9

4.5 ARView Class Reference . . . 9

4.5.1 Detailed Description . . . 10

4.6 ARView() Category Reference . . . 10

4.7 DBWrapper Class Reference . . . 11

4.7.1 Method Documentation . . . 11

4.7.1.1 getAllBuildingsWithCallback: . . . 11

4.7.1.2 getHTTPDataWithUrl: . . . 11

4.7.1.3 getHTTPDataWithUrl:andCallback: . . . 12

4.7.1.4 getRowWithRowId:andCallback: . . . 12

4.7.1.5 getTextWithRowId:andCallback: . . . 12

4.7.1.6 parseJSONToArray: . . . 12

4.7.1.7 parseJSONToDict: . . . 13

4.8 <detailViewControllerDelegate> Protocol Reference . . . 13

4.9 JKArray Class Reference . . . 13

4.10 JKBuffer Struct Reference . . . 14

4.11 JKConstBuffer Struct Reference . . . 14

4.12 JKConstPtrRange Struct Reference . . . 14

4.13 JKDictionary Class Reference . . . 15
4.14 JKDictionaryEnumerator Class Reference . . . 15
4.15 JKEncodeCache Struct Reference . . . 16
4.16 JKEncodeState Struct Reference . . . 16
4.17 JKFastClassLookup Struct Reference . . . 16
4.18 JKHashTableEntry Struct Reference . . . 17
4.19 JKManagedBuffer Struct Reference . . . 17
4.20 JKObjCImpCache Struct Reference . . . 17
4.21 JKObjectStack Struct Reference . . . 17
4.22 JKParseState Struct Reference . . . 18
4.23 JKParseToken Struct Reference . . . 18
4.24 JKPtrRange Struct Reference . . . 18
4.25 JKRange Struct Reference . . . 19
4.26 JKSerializer Class Reference . . . 19
4.27 JKTokenCache Struct Reference . . . 19
4.28 JKTokenCacheItem Struct Reference . . . 20
4.29 JKTokenValue Struct Reference . . . 20
4.30 JSONDecoder Class Reference . . . 20
4.31 MapOverlay Class Reference . . . 21
4.32 MapOverlayView Class Reference . . . 21
4.33 NSArray(JSONKitSerializing) Category Reference . . . 21
4.34 NSData(JSONKitDeserializing) Category Reference . . . 22
4.35 NSDictionary(JSONKitSerializing) Category Reference . . . 22
4.36 NSString(JSONKitDeserializing) Category Reference . . . 22
4.37 NSString(JSONKitSerializing) Category Reference . . . 22
4.38 PlaceOfInterest Class Reference . . . 22
4.38.1 Detailed Description . . . 23
4.39 <settingsViewControllerDelegate> Protocol Reference . . . 23
4.40 VirtTourAppDelegate Class Reference . . . 23
4.41 VirtTourSettingsViewController Class Reference . . . 24
4.41.1 Method Documentation . . . 24
4.41.1.1 changeBuildingSetting: . . . 24
4.41.1.2 changeMapType: . . . 24
4.42 VirtTourSettingsViewController() Category Reference . . . 25
4.43 VirtTourViewController Class Reference . . . 25
4.43.1 Method Documentation . . . 26
4.43.1.1 MetersToMiles: . . . 26
4.43.1.2 resetData . . . 26
4.43.1.3 setMapType: . . . 26
4.43.1.4 showDetailedViewWithRowId: . . . 27

4.44 VirtTourViewController() Category Reference 27
4.45 VirtTourWebViewController Class Reference 27
4.45.1 Detailed Description 27
4.46 VirtTourWebViewController() Category Reference 28

Index **28**

Chapter 1

Looking Glass

This project is an Augmented Reality map system. It is currently implemented with a PHP/MYSQL back-end database with markers focused on Ithaca College. The project is intended for the Ithaca College App competition.

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

ARDetailedViewController() . . . 8
ARView() . . . 10
<CLLocationManagerDelegate>
    ARView . . . 9
    VirtTourViewController . . . 25
JKBuffer . . . 14
JKConstBuffer . . . 14
JKConstPtrRange . . . 14
JKEncodeCache . . . 16
JKEncodeState . . . 16
JKFastClassLookup . . . 16
JKHashTableEntry . . . 17
JKManagedBuffer . . . 17
JKObjCImpCache . . . 17
JKObjectStack . . . 17
JKParseState . . . 18
JKParseToken . . . 18
JKPtrRange . . . 18
JKRange . . . 19
JKTokenCache . . . 19
JKTokenCacheItem . . . 20
JKTokenValue . . . 20
JSONDecoder . . . 20
<MKAnnotation>
    Annotation . . . 7
<MKMapViewDelegate>
    ARMarker . . . 9
    VirtTourViewController . . . 25
<MKOverlay>
    MapOverlay . . . 21
MKOverlayView
    MapOverlayView . . . 21
NSArray(JSONKitSerializing) . . . 21
<NSCopying>
    JKArray . . . 13
    JKDictionary . . . 15
NSData(JSONKitDeserializing) . . . 22
NSDictionary(JSONKitSerializing) . . . 22

NSEnumerator
JKDictionaryEnumerator . . . 15
<NSFastEnumeration>
JKArray . . . 13
JKDictionary . . . 15
NSMutableArray
JKArray . . . 13
<NSMutableCopying>
JKArray . . . 13
JKDictionary . . . 15
NSMutableDictionary
JKDictionary . . . 15
NSObject
Annotation . . . 7
DBWrapper . . . 11
JKSerializer . . . 19
MapOverlay . . . 21
PlaceOfInterest . . . 22
<NSObject>
<detailViewControllerDelegate> . . . 13
ARDetailedViewController . . . 7
<detailViewControllerDelegate> . . . 13
<settingsViewControllerDelegate> . . . 23
VirtTourSettingsViewController . . . 24
NSString(JSONKitDeserializing) . . . 22
NSString(JSONKitSerializing) . . . 22
<UIApplicationDelegate>
VirtTourAppDelegate . . . 23
UIResponder
VirtTourAppDelegate . . . 23
UITableViewController
ARDetailedViewController . . . 7
VirtTourSettingsViewController . . . 24
UIView
ARMarker . . . 9
ARView . . . 9
UIViewController
VirtTourViewController . . . 25
VirtTourWebViewController . . . 27
VirtTourSettingsViewController() . . . 25
VirtTourViewController() . . . 27
VirtTourWebViewController() . . . 28

Chapter 3

Data Structure Index

3.1 Data Structures

Here are the data structures with brief descriptions:

Annotation . . . 7
ARDetailedViewController . . . 7
ARDetailedViewController() . . . 8
ARMarker . . . 9
ARView
    Describes an AR View . . . 9
ARView() . . . 10
DBWrapper . . . 11
<detailViewControllerDelegate> . . . 13
JKArray . . . 13
JKBuffer . . . 14
JKConstBuffer . . . 14
JKConstPtrRange . . . 14
JKDictionary . . . 15
JKDictionaryEnumerator . . . 15
JKEncodeCache . . . 16
JKEncodeState . . . 16
JKFastClassLookup . . . 16
JKHashTableEntry . . . 17
JKManagedBuffer . . . 17
JKObjCImpCache . . . 17
JKObjectStack . . . 17
JKParseState . . . 18
JKParseToken . . . 18
JKPtrRange . . . 18
JKRange . . . 19
JKSerializer . . . 19
JKTokenCache . . . 19
JKTokenCacheItem . . . 20
JKTokenValue . . . 20
JSONDecoder . . . 20
MapOverlay . . . 21
MapOverlayView . . . 21
NSArray(JSONKitSerializing) . . . 21
NSData(JSONKitDeserializing) . . . 22
NSDictionary(JSONKitSerializing) . . . 22
NSString(JSONKitDeserializing) . . . 22
NSString(JSONKitSerializing) . . . 22

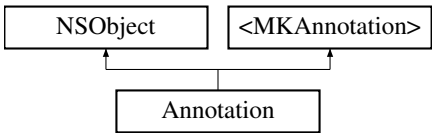
PlaceOfInterest
Describes a place of interest . . . 22
<settingsViewControllerDelegate> . . . 23
VirtTourAppDelegate . . . 23
VirtTourSettingsViewController . . . 24
VirtTourSettingsViewController() . . . 25
VirtTourViewController . . . 25
VirtTourViewController() . . . 27
VirtTourWebViewController
View controller for the web view . . . 27
VirtTourWebViewController() . . . 28

Chapter 4

Data Structure Documentation

4.1 Annotation Class Reference

Inheritance diagram for Annotation:



Instance Methods

- (id) - **initWithCoordinates:title:subTitle:**
- (id) - **initWithCurrentLocation:title:subTitle:**

Properties

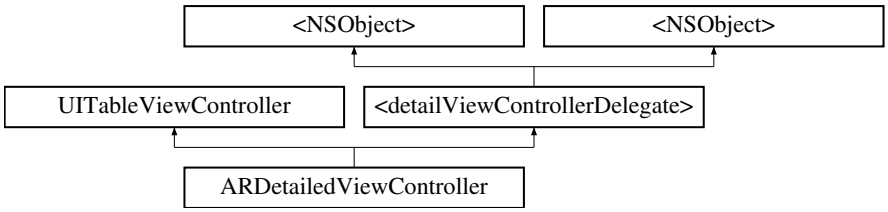
- NSString ∗ **title**
- NSString ∗ **subtitle**
- CLLocationCoordinate2D **coordinate**
- CLLocation ∗ **myLocation**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/Annotation.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/Annotation.m

4.2 ARDetailedViewController Class Reference

Inheritance diagram for ARDetailedViewController:



Instance Methods

- (void) - setCellDataWithName:andImageName:andText:

  lets parent set the data in this view

Properties

- IBOutlet UITextView * textView

  ref to the text view
- IBOutlet UIWebView * webView

  ref to the web view which displays the image
- ARMarker * delegate

  ref to the ARMarker for the building for which this detailed view was invoked

4.2.1 Method Documentation

4.2.1.1 - (void) setCellDataWithName: (NSString *) *name* andImageName:(NSString *) *imageName* andText:(NSString *) *text*

lets parent set the data in this view

Parameters

name	the name of the building
imageName	name of the image. Without extension, extension assumed to be PNG
text	the text to be shown. Straight fromt the DB

Reimplemented from <detailViewControllerDelegate>.

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARDetailedViewController.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARDetailedViewController.m

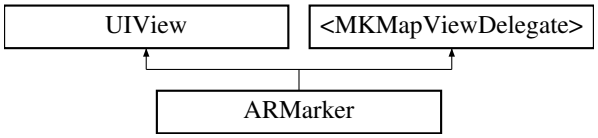
4.3 ARDetailedViewController() Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARDetailedViewController.m

4.4 ARMarker Class Reference

Inheritance diagram for ARMarker:



Instance Methods

- (id) - **initWithImage:andTitle:**
- (id) - **initWithImage:andTitle:showDistance:**
- (void) - **expandInfoView**

Properties

- UIWebView * **infoView**
- UIButton * **expandViewButton**
- UILabel * **titleLabel**
- UIButton * **labelButton**
- UIImageView * **markerImage**
- MKUserLocation * **userLocation**
- BOOL **expanded**
- VirtTourViewController * **parent**
- NSInteger **rowId**
- NSString * **name**

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

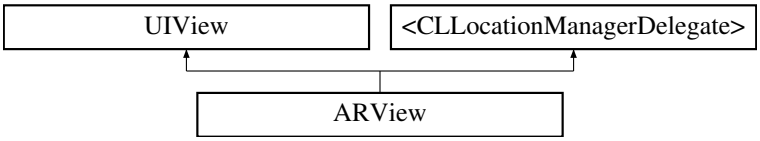
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARMarker.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARMarker.m

4.5 ARView Class Reference

describes an AR View

```
#import <ARView.h>
```

Inheritance diagram for ARView:



Instance Methods

- (void) - **start**
- (void) - **stop**

Properties

- NSArray * **placesOfInterest**
- int ** placesArray

  used to figure out when labels overlap. Is a simple 2d array for speed

4.5.1 Detailed Description

describes an AR View

Author

Jason Debottis, Adeesha Ekanayake

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARView.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARView.m

4.6 ARView() Category Reference

Instance Methods

- (void) - **initialize**
- (void) - **startCameraPreview**
- (void) - **stopCameraPreview**
- (void) - **startLocation**
- (void) - **stopLocation**
- (void) - **startDeviceMotion**
- (void) - **stopDeviceMotion**
- (void) - **startDisplayLink**
- (void) - **stopDisplayLink**
- (void) - **updatePlacesOfInterestCoordinates**
- (void) - **onDisplayLink:**
- (void) - **locationManager:didUpdateToLocation:fromLocation:**

Protected Attributes

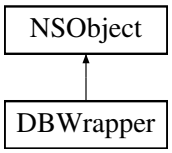
- UIView * **captureView**
- AVCaptureSession * **captureSession**
- AVCaptureVideoPreviewLayer * **captureLayer**
- CADisplayLink * **displayLink**
- CMMotionManager * **motionManager**
- CLLocationManager * **locationManager**
- CLLocation * **location**
- NSArray * **placesOfInterest**
- mat4f_t **projectionTransform**
- mat4f_t **cameraTransform**
- vec4f_t * **placesOfInterestCoordinates**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/ARView.m

4.7 DBWrapper Class Reference

Inheritance diagram for DBWrapper:



Instance Methods

- (NSArray ∗) - getAllBuildingsWithCallback:

  returns an array with all the buildings in the database
- (NSDictionary ∗) - getRowWithRowId:andCallback:

  returns a dictionary with a row corresponding to the id
- (NSDictionary ∗) - getTextWithRowId:andCallback:

  gets the text description for a given entry
- (NSString ∗) - getHTTPDataWithUrl:

  conducts an http request and returns the response
- (NSString ∗) - getHTTPDataWithUrl:andCallback:

  conducts an http request and returns the response
- (NSArray ∗) - parseJSONToArray:

  parses the string and returns a JSON array
- (NSDictionary ∗) - parseJSONToDict:

  parses the string and returns a JSON dictionary

4.7.1 Method Documentation

4.7.1.1 - (NSArray ∗) getAllBuildingsWithCallback: (void) *errorCallback*

returns an array with all the buildings in the database

Returns

array with the buildings. Element is a dictionary

4.7.1.2 - (NSString∗) getHTTPDataWithUrl: (NSString ∗) *url*

conducts an http request and returns the response

Parameters

url	url destination of the http request

Returns

the http response

4.7.1.3 - (NSString ∗) getHTTPDataWithUrl: (NSString∗) *url* andCallback:(void) *errorCallback*

conducts an http request and returns the response

Parameters

url	url destination of the http request
andCallback	callback executed on http request error

Returns

the http response

4.7.1.4 - (NSDictionary ∗) getRowWithRowId: (NSInteger) *rowId* andCallback:(void) *errorCallback*

returns a dictionary with a row corresponding to the id

Parameters

rowId	the id of the row

Returns

a dictionary with the data in a row

4.7.1.5 - (NSDictionary ∗) getTextWithRowId: (NSInteger) *rowId* andCallback:(void) *errorCallback*

gets the text description for a given entry

Parameters

rowId	the row id for the entry

Returns

the text description

4.7.1.6 - (NSArray ∗) parseJSONToArray: (NSString∗) *dataString*

parses the string and returns a JSON array

Parameters

dataString	string to parse into JSON

Returns

an array with the JSON data

4.7.1.7 - (NSDictionary *) parseJSONToDict: (NSString *) *dataString*

parses the string and returns a JSON dictionary

Parameters

dataString	the string to parse into JSON

Returns

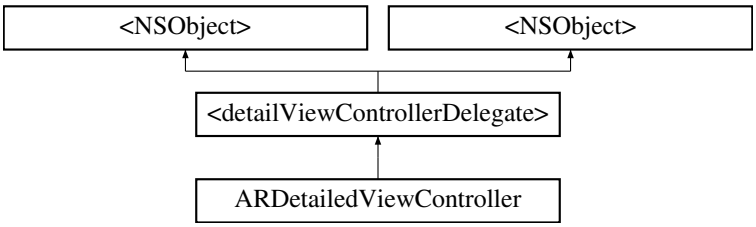
a dictionary with the JSON data

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/DBWrapper.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/DBWrapper.m

4.8 <detailViewControllerDelegate> Protocol Reference

Inheritance diagram for <detailViewControllerDelegate>:



Instance Methods

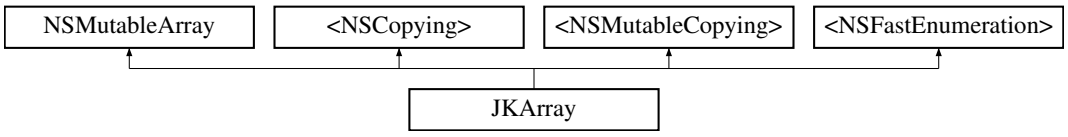
- (void) - **setCellDataWithName:andImageName:andText:**
- (void) - **setCellDataWithName:andImageName:andText:**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/ARMarker.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourViewController.h

4.9 JKArray Class Reference

Inheritance diagram for JKArray:



Protected Attributes

- id * **objects**
- NSUInteger **count**
- NSUInteger **capacity**
- NSUInteger **mutations**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.10 JKBuffer Struct Reference

Protected Attributes

- JKPtrRange **bytes**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.11 JKConstBuffer Struct Reference

Protected Attributes

- JKConstPtrRange **bytes**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.12 JKConstPtrRange Struct Reference

Protected Attributes

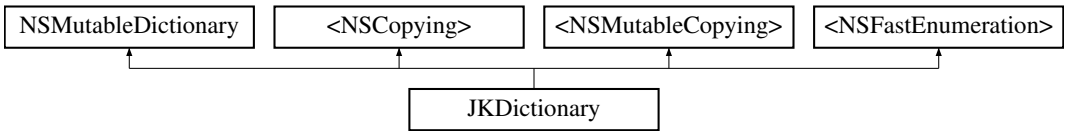
- const unsigned char * **ptr**
- size_t **length**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.13 JKDictionary Class Reference

Inheritance diagram for JKDictionary:



Protected Attributes

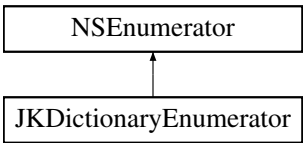
- NSUInteger **count**
- NSUInteger **capacity**
- NSUInteger **mutations**
- JKHashTableEntry * **entry**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/JSONKit.m

4.14 JKDictionaryEnumerator Class Reference

Inheritance diagram for JKDictionaryEnumerator:



Instance Methods

- (id) - **initWithJKDictionary:**
- (NSArray *) - **allObjects**
- (id) - **nextObject**

Protected Attributes

- id **collection**
- NSUInteger **nextObject**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/JSONKit.m

4.15 JKEncodeCache Struct Reference

Protected Attributes

- id **object**
- size_t **offset**
- size_t **length**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.16 JKEncodeState Struct Reference

Protected Attributes

- JKManagedBuffer **utf8ConversionBuffer**
- JKManagedBuffer **stringBuffer**
- size_t **atIndex**
- JKFastClassLookup **fastClassLookup**
- JKEncodeCache **cache** [JK_ENCODE_CACHE_SLOTS]
- JKSerializeOptionFlags **serializeOptionFlags**
- JKEncodeOptionType **encodeOption**
- size_t **depth**
- NSError * **error**
- id **classFormatterDelegate**
- SEL **classFormatterSelector**
- JKClassFormatterIMP **classFormatterIMP**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.17 JKFastClassLookup Struct Reference

Protected Attributes

- void * **stringClass**
- void * **numberClass**
- void * **arrayClass**
- void * **dictionaryClass**
- void * **nullClass**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.18 JKHashTableEntry Struct Reference

Protected Attributes

- NSUInteger **keyHash**
- id **key**
- id **object**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.19 JKManagedBuffer Struct Reference

Protected Attributes

- JKPtrRange **bytes**
- JKManagedBufferFlags **flags**
- size_t **roundSizeUpToMultipleOf**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.20 JKObjCImpCache Struct Reference

Protected Attributes

- Class **NSNumberClass**
- NSNumberAllocImp **NSNumberAlloc**
- NSNumberInitWithUnsignedLongLongImp **NSNumberInitWithUnsignedLongLong**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.21 JKObjectStack Struct Reference

Protected Attributes

- void ** **objects**
- void ** **keys**
- CFHashCode * **cfHashes**
- size_t **count**
- size_t **index**
- size_t **roundSizeUpToMultipleOf**
- JKObjectStackFlags **flags**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/JSONKit.m

4.22 JKParseState Struct Reference

Protected Attributes

- JKParseOptionFlags **parseOptionFlags**
- JKConstBuffer **stringBuffer**
- size_t **atIndex**
- size_t **lineNumber**
- size_t **lineStartIndex**
- size_t **prev_atIndex**
- size_t **prev_lineNumber**
- size_t **prev_lineStartIndex**
- JKParseToken **token**
- JKObjectStack **objectStack**
- JKTokenCache **cache**
- JKObjCImpCache **objCImpCache**
- NSError * **error**
- int **errorIsPrev**
- BOOL **mutableCollections**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/JSONKit.m

4.23 JKParseToken Struct Reference

Protected Attributes

- JKConstPtrRange **tokenPtrRange**
- JKTokenType **type**
- JKTokenValue **value**
- JKManagedBuffer **tokenBuffer**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirt-CampusTour/JSONKit.m

4.24 JKPtrRange Struct Reference

Protected Attributes

- unsigned char * **ptr**
- size_t **length**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.25 JKRange Struct Reference

Protected Attributes

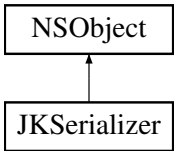
- size_t **location**
- size_t **length**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.26 JKSerializer Class Reference

Inheritance diagram for JKSerializer:



Instance Methods

- (id) - **serializeObject:options:encodeOption:block:delegate:selector:error:**
- (void) - **releaseState**

Class Methods

- (id) + **serializeObject:options:encodeOption:block:delegate:selector:error:**

Protected Attributes

- JKEncodeState * **encodeState**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.27 JKTokenCache Struct Reference

Protected Attributes

- JKTokenCacheItem * **items**

- size_t **count**
- unsigned int **prng_lfsr**
- unsigned char **age** [JK_CACHE_SLOTS]

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.28 JKTokenCacheItem Struct Reference

Protected Attributes

- void * **object**
- JKHash **hash**
- CFHashCode **cfHash**
- size_t **size**
- unsigned char * **bytes**
- JKValueType **type**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.29 JKTokenValue Struct Reference

Protected Attributes

- JKConstPtrRange **ptrRange**
- JKValueType **type**
- JKHash **hash**
- union {
  long long **longLongValue**
  unsigned long long **unsignedLongLongValue**
  double **doubleValue**
  } **number**

- JKTokenCacheItem * **cacheItem**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

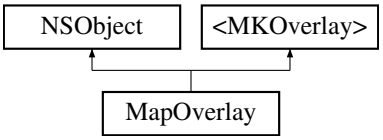
4.30 JSONDecoder Class Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.31 MapOverlay Class Reference

Inheritance diagram for MapOverlay:



Instance Methods

- (MKMapRect) - **boundingMapRect**

Properties

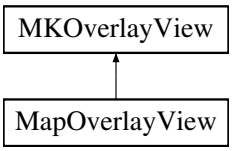
- CLLocationCoordinate2D **coordinate**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/MapOverlay.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/MapOverlay.m

4.32 MapOverlayView Class Reference

Inheritance diagram for MapOverlayView:



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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/MapOverlayView.h

4.33 NSArray(JSONKitSerializing) Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.34 NSData(JSONKitDeserializing) Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.35 NSDictionary(JSONKitSerializing) Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.36 NSString(JSONKitDeserializing) Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.37 NSString(JSONKitSerializing) Category Reference

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

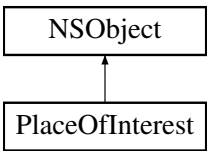
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/JSONKit.m

4.38 PlaceOfInterest Class Reference

describes a place of interest

```
#import <PlaceOfInterest.h>
```

Inheritance diagram for PlaceOfInterest:



Class Methods

- (PlaceOfInterest ∗) + **placeOfInterestWithView:at:**

Properties

- UIView ∗ **view**
- CLLocation ∗ **location**

4.38.1 Detailed Description

describes a place of interest

Author

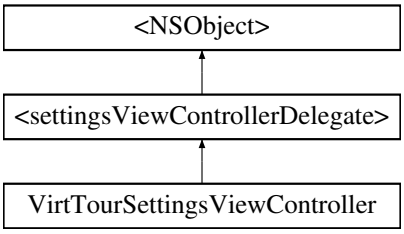
Jason Debottis, Adeesha Ekanayake

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/PlaceOfInterest.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/PlaceOfInterest.m

4.39 <settingsViewControllerDelegate> Protocol Reference

Inheritance diagram for <settingsViewControllerDelegate>:



Instance Methods

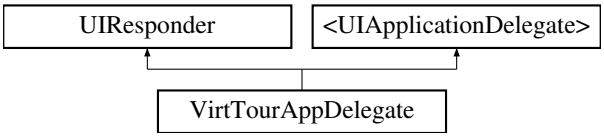
- (void) - **setMapType:**
- (void) - **resetData**

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourViewController.h

4.40 VirtTourAppDelegate Class Reference

Inheritance diagram for VirtTourAppDelegate:



Properties

- UIWindow * window

  reference to window

- VirtTourViewController * viewController

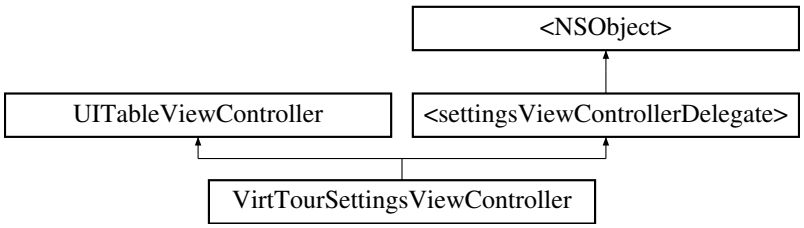
  reference to the view controller

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourAppDelegate.h

4.41 VirtTourSettingsViewController Class Reference

Inheritance diagram for VirtTourSettingsViewController:



Instance Methods

- (IBAction) - changeMapType:

  changes the map type in the parent view
- (IBAction) - changeBuildingSetting:

  changes the building types displayed in the parent view

Properties

- VirtTourViewController * delegate

  ref to the parent detail view controller
- NSArray * typesArray

  copy of the parent array where types displayed are mapped to a bool

4.41.1 Method Documentation

4.41.1.1 - (IBAction) changeBuildingSetting: (id) *sender*

changes the building types displayed in the parent view

Parameters

sender	ref to sender

4.41.1.2 - (IBAction) changeMapType: (UISegmentedControl*) *sender*

changes the map type in the parent view

Parameters

sender	ref to sender

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourSettingsViewController.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourSettingsViewController.m

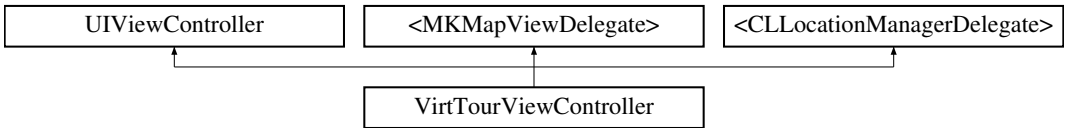
4.42 VirtTourSettingsViewController() Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourSettingsViewController.m

4.43 VirtTourViewController Class Reference

Inheritance diagram for VirtTourViewController:



Instance Methods

- (void) - httpError

  called when DBWrapper throws a connection error
- (void) - showDetailedViewWithRowId:

  shows a detailed view
- (void) - showCurrentlySelectedDetailedView

  shows currently sellected detailed view
- (void) - showSettingsView

  shows settings view
- (float) - MetersToMiles:

  meters to miles
- (void) - setMapType:

  lets settings view change map type
- (void) - resetData

  lets settings view reset the data displayed the settings view changes the contents of the buildingTypes, which affects the types of buildings shown. This method resets the data displayed in the ARView and the mapView so that only the new types selected will be displayed.

Properties

- MapOverlay * **mapOverlay**
- MapOverlayView * **mapOverlayView**
- VirtTourWebViewController * **webView**
- MKMapView * **theMapView**
- MKUserLocation * **userLocation**
- CMMotionManager * **manager**
- CLLocationManager * **locationManager**
- DBWrapper * myDBWrapper

  instance of DBWrapper class. Allows convenient connection to database
- NSArray * buildings

  each line corresponds to a building in the database
- NSMutableDictionary * nameToID

  lets you convert a name id to a row id. Useful since dicts don't work backwards
- NSMutableDictionary * buildingTypesDisplay

  a dict with the types of buildings mapped to a boolean the types are all from the database, and the booleans are wrapped in NSNumbers to allow them to be inserted in the dict
- NSMutableArray * buildingNames

  an array of the building names. Deprecate?
- BOOL **ARViewDisplayed**

4.43.1 Method Documentation

4.43.1.1 - (float) MetersToMiles: (CGFloat) *meters*

meters to miles

Parameters

meters	value in meters

Returns

value in miles

4.43.1.2 - (void) resetData

lets settings view reset the data displayed the settings view changes the contents of the buildingTypes, which affects the types of buildings shown. This method resets the data displayed in the ARView and the mapView so that only the new types selected will be displayed.

Attention

this messes up the pin colors: fix

4.43.1.3 - (void) setMapType: (MKMapType) *mapType*

lets settings view change map type

Parameters

mapType	type of the map (Hybrid, standard, satmap)

4.43.1.4 - (void) showDetailedViewWithRowId: (NSInteger) *rowId*

shows a detailed view

Parameters

rowId	id of the row in the database

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourViewController.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourViewController.m

4.44 VirtTourViewController() Category Reference

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

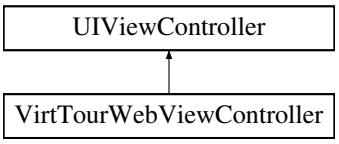
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourViewController.m

4.45 VirtTourWebViewController Class Reference

view controller for the web view

`#import <VirtTourWebViewController.h>`

Inheritance diagram for VirtTourWebViewController:



Instance Methods

- (IBAction) - **goBack:**
- (id) - **initWithNibName:bundle:andURL:**

Properties

- IBOutlet UIWebView ∗ **campusWebView**
- IBOutlet UIToolbar ∗ **backBarButton**
- NSURL ∗ **theURL**
- NSURLRequest ∗ **theURLReq**

4.45.1 Detailed Description

view controller for the web view

Author

Jason Debottis, Adeesha Ekanayake

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourWebViewController.h
- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourWebViewController.m

4.46 VirtTourWebViewController() Category Reference

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

- /Users/adeeshaek/Documents/Programming/Engineering/App_contest/ICVirtTourApp/ICVirtTourApp/ICVirtCampusTour/VirtTourWebViewController.m

Index

<detailViewControllerDelegate>, 13
<settingsViewControllerDelegate>, 23

ARDetailedViewController, 7
    setCellDataWithName:andImageName:andText:, 8
ARDetailedViewController(), 8
ARMarker, 9
ARView, 9
ARView(), 10
Annotation, 7

changeBuildingSetting:
    VirtTourSettingsViewController, 24
changeMapType:
    VirtTourSettingsViewController, 24

DBWrapper, 11
    getAllBuildingsWithCallback:, 11
    getHTTPDataWithUrl:, 11
    getHTTPDataWithUrl:andCallback:, 12
    getRowWithRowId:andCallback:, 12
    getTextWithRowId:andCallback:, 12
    parseJSONToArray:, 12
    parseJSONToDict:, 12

getAllBuildingsWithCallback:
    DBWrapper, 11
getHTTPDataWithUrl:
    DBWrapper, 11
getHTTPDataWithUrl:andCallback:
    DBWrapper, 12
getRowWithRowId:andCallback:
    DBWrapper, 12
getTextWithRowId:andCallback:
    DBWrapper, 12

JKArray, 13
JKBuffer, 14
JKConstBuffer, 14
JKConstPtrRange, 14
JKDictionary, 15
JKDictionaryEnumerator, 15
JKEncodeCache, 16
JKEncodeState, 16
JKFastClassLookup, 16
JKHashTableEntry, 17
JKManagedBuffer, 17
JKObjCImpCache, 17
JKObjectStack, 17
JKParseState, 18
JKParseToken, 18
JKPtrRange, 18
JKRange, 19
JKSerializer, 19
JKTokenCache, 19
JKTokenCacheItem, 20
JKTokenValue, 20
JSONDecoder, 20

MapOverlay, 21
MapOverlayView, 21
MetersToMiles:
    VirtTourViewController, 26

NSArray(JSONKitSerializing), 21
NSData(JSONKitDeserializing), 22
NSDictionary(JSONKitSerializing), 22
NSString(JSONKitDeserializing), 22
NSString(JSONKitSerializing), 22

parseJSONToArray:
    DBWrapper, 12
parseJSONToDict:
    DBWrapper, 12
PlaceOfInterest, 22

resetData
    VirtTourViewController, 26

setCellDataWithName:andImageName:andText:
    ARDetailedViewController, 8
setMapType:
    VirtTourViewController, 26
showDetailedViewWithRowId:
    VirtTourViewController, 26

VirtTourAppDelegate, 23
VirtTourSettingsViewController, 24
    changeBuildingSetting:, 24
    changeMapType:, 24
VirtTourSettingsViewController(), 25
VirtTourViewController, 25
    MetersToMiles:, 26
    resetData, 26
    setMapType:, 26
    showDetailedViewWithRowId:, 26
VirtTourViewController(), 27
VirtTourWebViewController, 27
VirtTourWebViewController(), 28