

# WIKITUDE AR API

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## Introduction

The Wikitude API enables any Android developer to use the award winning Wikitude Augmented Reality (AR) camera view within any custom Android application very easily. The following document contains some basic information about the Wikitude API and a Step-by-Step-Tutorial how to use it.

## Basic Information

The Wikitude API is currently in closed beta status, which means that developers can apply on [developers@wikitude.me](mailto:developers@wikitude.me) to get a copy of all necessary files of the API. As long as it is in beta status, the camera view will be watermarked. In a later stage, the Wikitude API will be opened using a key system. Every developer who wants to use the API without watermarking will need to register the application he/she wants to create on the Mobilizy website. After the registration progress, the developer will receive a key which can be used to unlock the camera view. As long as no key is provided, the camera screen will remain watermarked.

## Wikitude API Step-by-Step Tutorial

1. Include `wikitudearintent.jar` in your project build path.
2. Within your custom application, create a new `WikitudeARIntent`:  

```
WikitudeARIntent intent = new WikitudeARIntent(...);
```

The constructor arguments which must be given are:

- `Application application` is the application-object which launches the Wikitude Intent. You can get it from within the `WikitudeARIntent`-class with `this.getApplication()`.
  - `String applicationKey` is the key provided by Mobilizy for every registered application which makes usage of the Wikitude API. Use `null` if you want to use the beta-version of the API.
  - `String developerName` is the developer name submitted during the registration process of the application. If no `applicationKey` is submitted, `developerName` will not be checked.
3. Create `WikitudePOI`-Objects, each representing one Point of Interest (POI) to be displayed on the Augmented Reality (AR) camera view. The fields which can be set are:
    - `float latitude` (required, the latitude of the POI)
    - `float longitude` (required, the longitude of the POI)
    - `float altitude` (in meters, the altitude of the POI, defaults to 0)

- **String** name (defaults to “Name unknown”)
- **String** description (defaults to “”; the text which is displayed in the bubble when the POI is selected)
- **String** iconresource (the resource-name of the icon representing the POI in the AR view)
- **String** iconuri (the URI of the icon representing the POI in the AR view)

If both `iconresource` and `iconuri` are null, the default icon from Wikitude, representing a Wikipedia POI, is used. If both `iconresource` and `iconuri` are not null, `iconresource` is used.

The number of POIs displayed in the AR view is arbitrary. However, a maximum number of 50 POIs is suggested for performance reasons.

4. Add the generated POIs to the intent, for example with

```
intent.addPOIs(pois);
```

5. Add a custom title to the AR view by using the methods provided in the `WikitudeARIntent`:

- `addTitleText(String title)` (uses the given title as text for the title)
- `addTitleImageResource(String imageresource)` (uses an image given as a resource name for the title)
- `addTitleImageUri(String imageUri)` (uses an image given as a URI for the title)

6. Start the intent within your custom activity:

```
this.startActivity(intent);
```

If Wikitude is not installed on the System, the above call will result in an `ActivityNotFoundException`. You can then use one of the static methods `handleWikitudeNotFound(...)` in the `WikitudeARIntent`-class to create a dialog which asks the user to install Wikitude.

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