

# Manual

## Terminology

### Web

Registration and Login

Guide Creation

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### Mobile

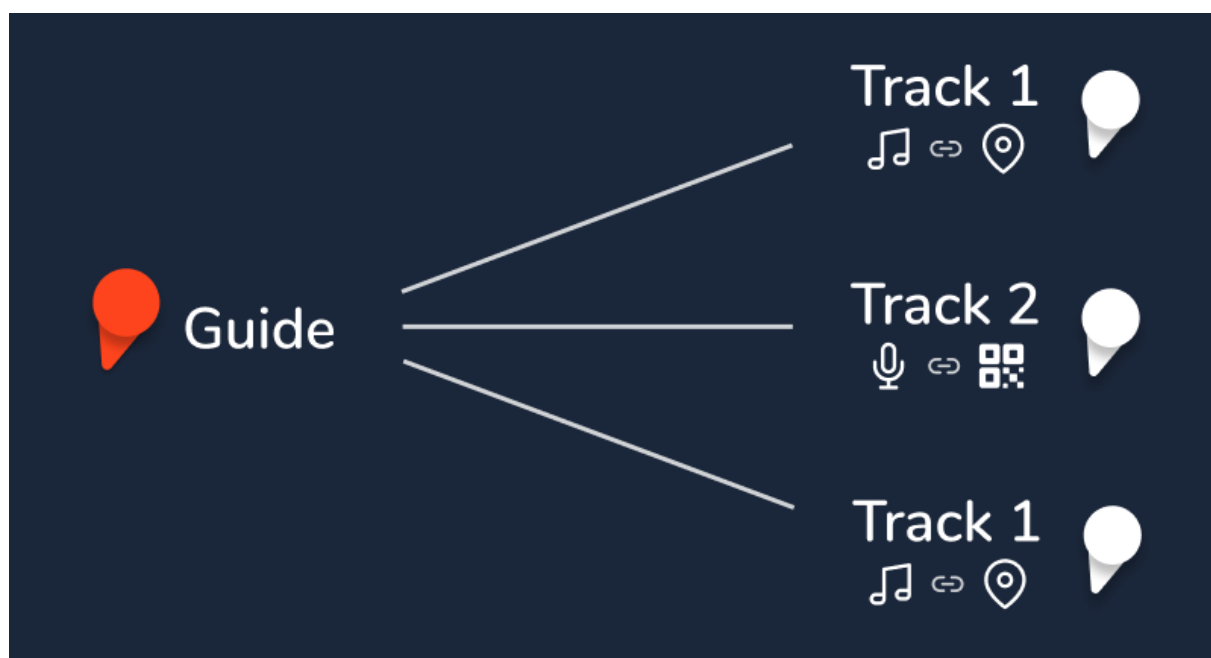
Registration and Login

Choosing Guides in the Map View

Listening to Audio Guides

### Backend Structure

## Terminology



Guide-Track-Relationship

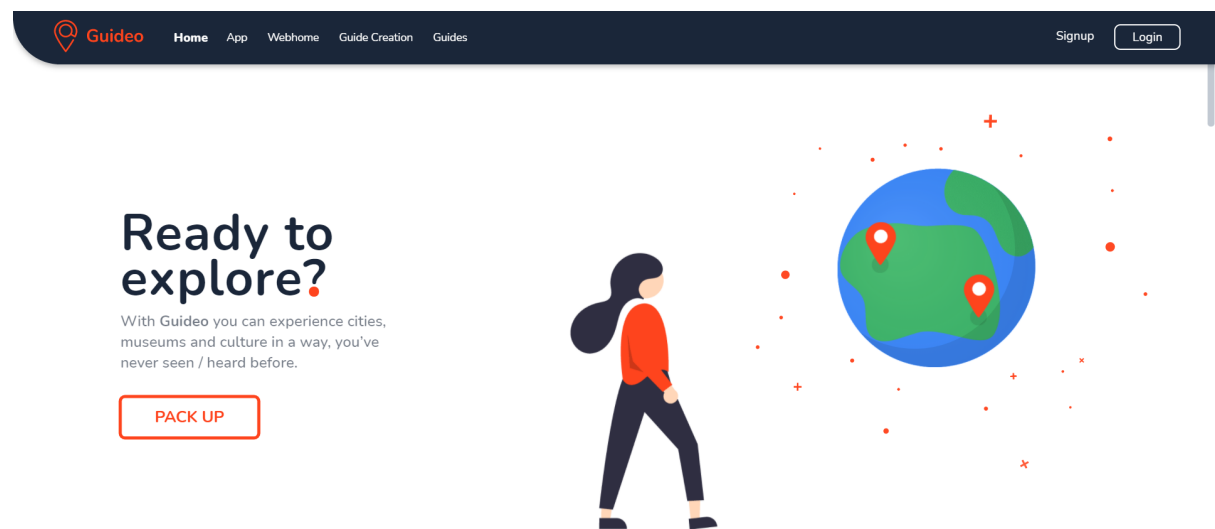
A **guide** is a container with one or more tracks. **Tracks** are audio files for a certain topic (e.g. Stadtplatz Linz), which are mapped to a certain geo position on the world map (e.g. Stadtplatz Linz).

A track has a specified radius which describes the area around the track in which it will be played if a user is in it.

Furthermore, a guide contains a description about itself and an image to give to users a glimpse into the content of guide.

## Web


### Registration and Login



Landing Page - Web

The first step to register an account is to click on the "Signup" button in the upper right corner of the landing page.

Signup



Signup

E-Mail

Username

Password

Confirm Password


SIGNUP

### Signup Page - Web

This opens the signup page, in which you can register an account with your email and a username of your choosing.

By clicking on the "Login" button on the landing page, the following view opens:

Login




Login

E-Mail

Password

LOGIN

[Forgot Password?](#)

 GOOGLE

Not a user yet? [Join Guidео now!](#)

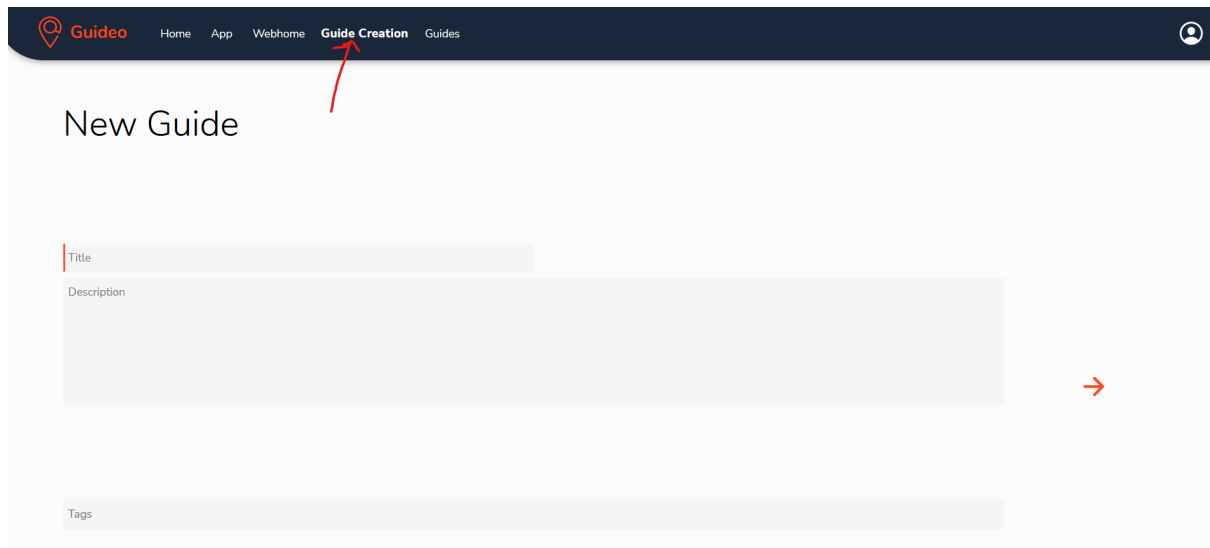
### Login Page - Web

On the login page, you have two choices:

- Login with an account you created on the signup page
- Login with a Google account

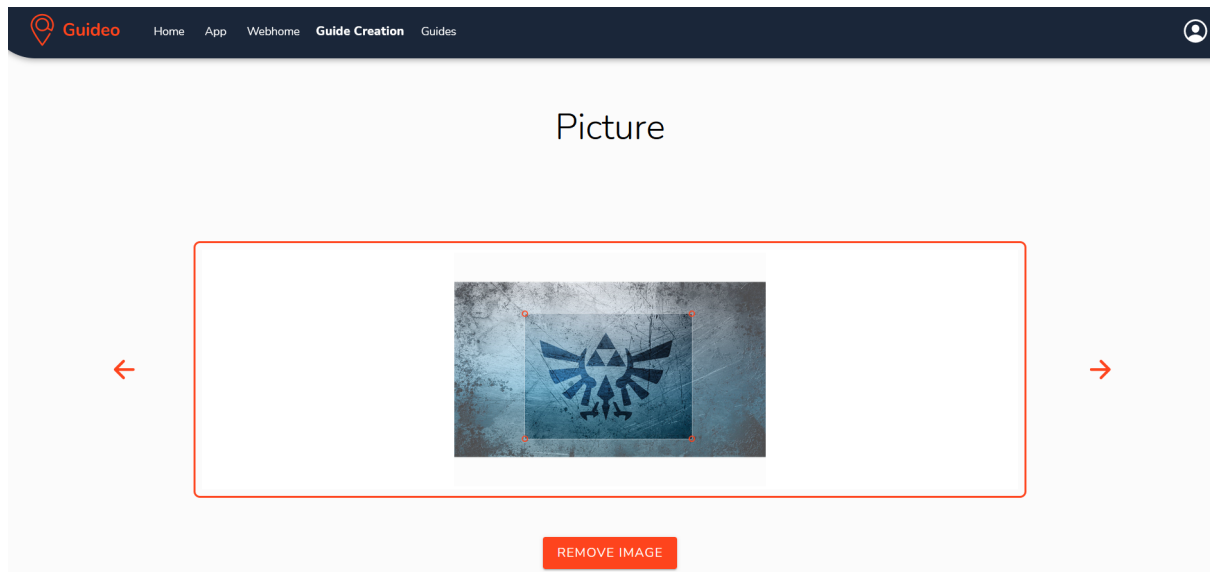
# Guide Creation

In order to create guides you have to be logged in on the web page. After that, you can click on the Guide Creation item in the menu, which redirects you to the guide creation wizard.

The screenshot shows the 'New Guide' page of the 'Guido' application. The top navigation bar is dark blue with the 'Guido' logo and links for 'Home', 'App', 'Webhome', 'Guide Creation', and 'Guides'. A red arrow points to the 'Guide Creation' link. The main content area is light gray and titled 'New Guide'. It contains three input fields: 'Title' (a single-line text box), 'Description' (a multi-line text area), and 'Tags' (a single-line text box). To the right of the 'Description' field is a red arrow pointing right, indicating the next step in the wizard.

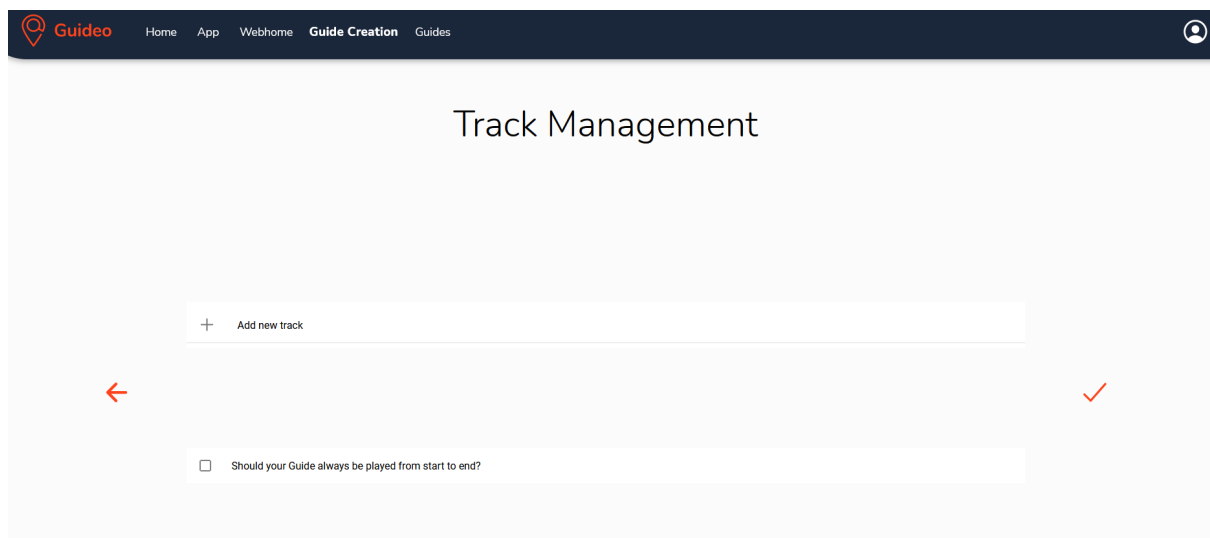
Guide Creation Wizard 1

There you have to insert the title of the Guide (e.g. Historical Places of Vienna), a short description of the content of the guide and some tags (e.g. History, Vienna, ...). Note: After you entered the tag name (e.g. History), you have to press the "enter" key to add the tag to the tag list. The arrow on the right, leads you to the next step.



Guide Creation Wizard 2

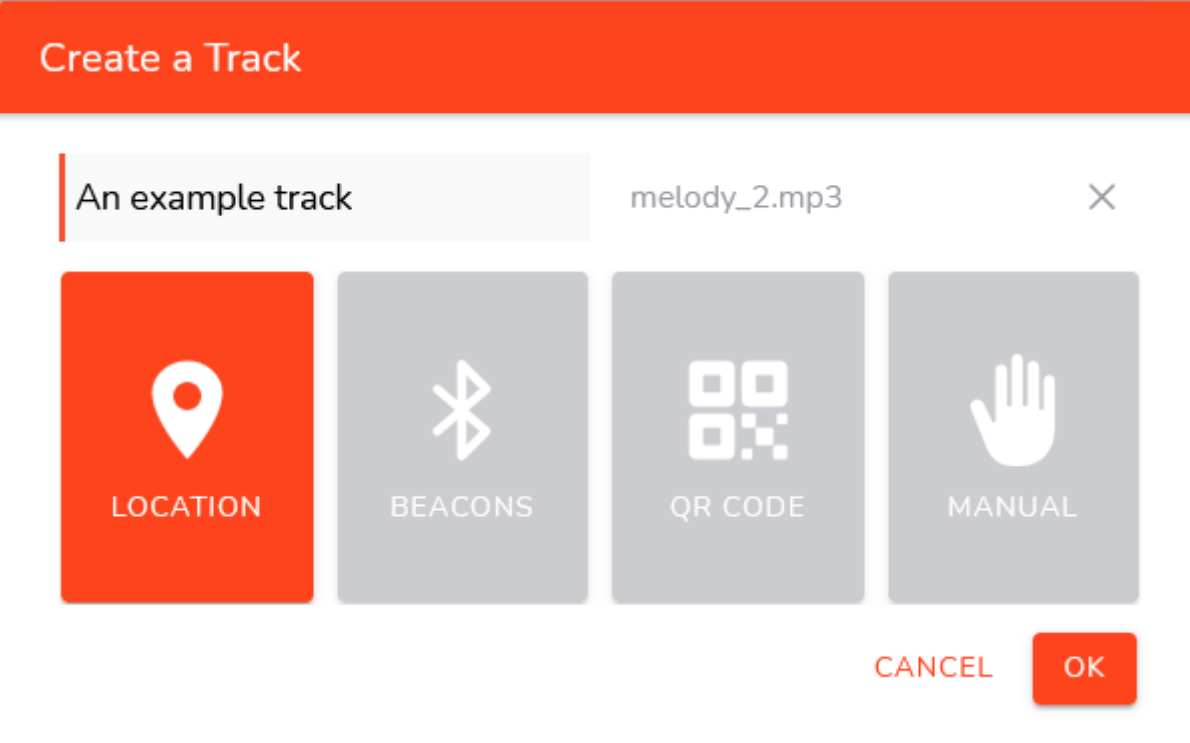
The next step is to upload a picture, which also should give a glimpse into the content of the guide (e.g. a picture of the Stephans Dom in Vienna). After uploading the image, you have the option to cut the image with the image cropper. Just move the corners of the image cropper rectangle (orange circles).



Guide Creation Wizard 3

You can choose whether the tracks of the guide should be played in the provided order or if the order is not relevant when listening to the guide. (the checkbox in the bottom)

The final part of the guide creation wizard is the track management. By clicking on the "Add new track" button you can add a new track. When you click on this button the "Create Track" Pop up appears. There you can add the title of the track and upload the audio file for the track (currently only mp3 files are allowed).



Create a Track

An example track melody\_2.mp3 X

LOCATION BEACONS QR CODE MANUAL

CANCEL OK

Create Track 1

Finally, you have to choose on which position the track should be played. By clicking on the location button, the "Pick Location" Pop Up appears. There you can move around on the map or search for a location (on the top right) and when you found the right location you click on it to create the red pin. Furthermore, you can modify the radius of the track and then click on pick to finish the position mapping of the track.

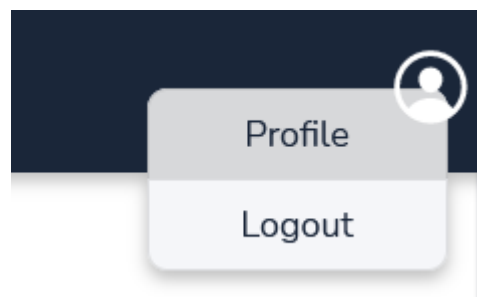


Furthermore, you can change the order of the tracks afterward and you can mark tracks as hidden, which means that they won't be seen on the map by the user, but it will start playing when the user enters the radius (useful für "Schnitzeljagt" or Geo Caching guides). Editing the tracks after creation or deleting them is also possible.

Then you can finish guide creation by clicking on the check mark to the right of the track management.

## Web Profile View

You can access the profile view by hovering over the avatar icon on the top right of the webpage and then click on the profile icon.



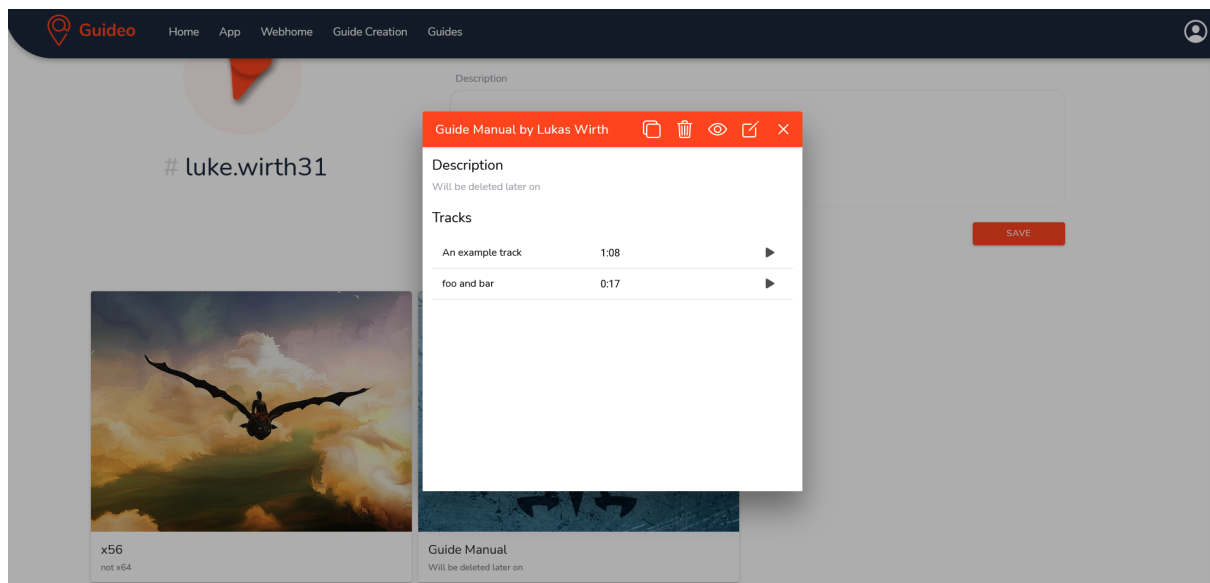
Profile View

The Web Profile View shows your account information and the guides you created. By clicking on one of those, the Guide Modal pops up and you can do the following things:

- edit the guide, which redirects you to the guide wizard (**paper with pencil symbol**)
- deleting it (**trash can symbol**)
- copy the link to the guide to share it with others (**two papers symbol**)
- Make the guide private (which means noone except you can listen to it) (**eye symbol**)

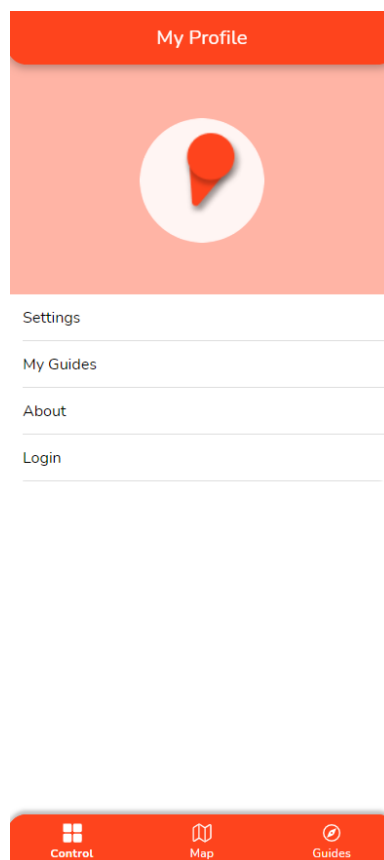
The tooltips, which appear when you hover over the icons, will also explain what the icon does.





# Mobile

## Registration and Login



Control Page - Mobile

To register an account in the mobile version, you have to either click on "Login" or "My Guides". Either redirects to the login page.



The image shows a mobile login page for the 'Guideo' app. At the top, there is an orange navigation bar with a white back arrow on the left and the word 'Login' in white text on the right. Below the navigation bar is the 'Guideo' logo, which consists of an orange location pin icon with a magnifying glass inside, followed by the word 'Guideo' in a bold, orange, sans-serif font. Under the logo are two input fields: 'E-Mail' and 'Password'. The 'Password' field has a small blue eye icon on the right to toggle visibility. Below these fields is a large orange button with the word 'LOGIN' in white capital letters. Underneath the button is a link that says 'Forgot Password?'. Below that is a white button with the Google logo and the word 'GOOGLE'. At the bottom of the form, there is a line of text that says 'Not a user yet? Join Guideo now!' where 'Join Guideo now!' is in orange.

Login Page - Mobile

This view allows you to login with a guideo or a Google account.  
Clicking on "Join Guideo now!" opens the mobile signup page.

← Signup



E-Mail

Username

Password 

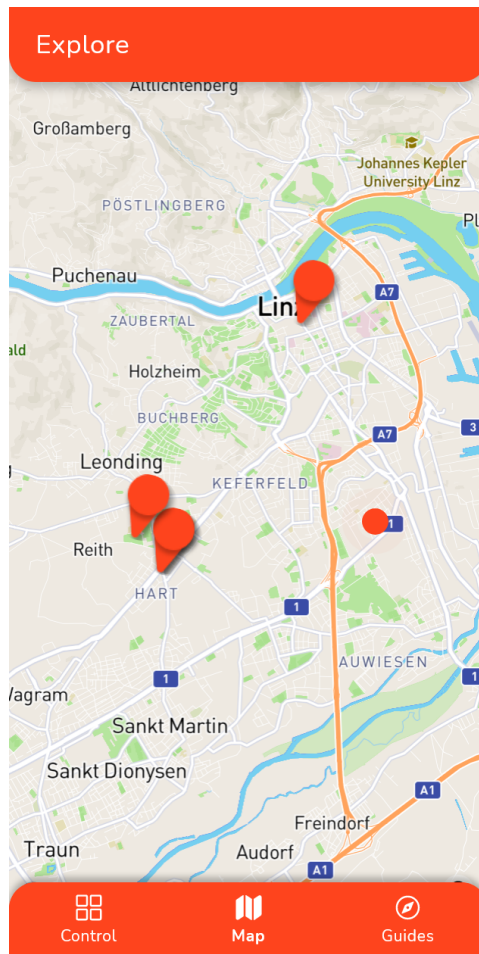
Confirm Password 

SIGNUP

Signup Page - Mobile

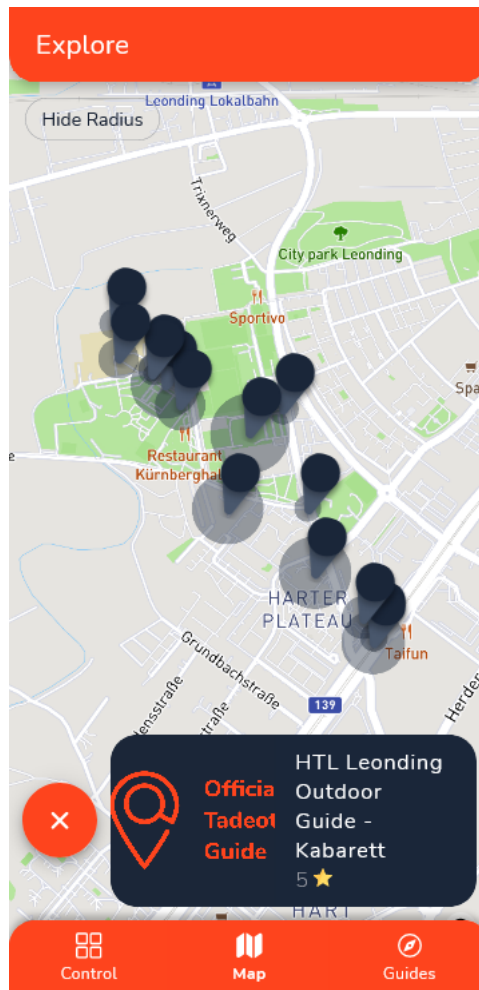
On this site, you can register an account with your email and a username of your choosing.

## Choosing Guides in the Map View



Map View with Guides and current Position - Mobile

The map view features the guides as an orange pin and the current location as an orange blinking dot.



Map view with tracks of a guide - Mobile

By touching a guide, a the respective tracks will be displayed including their radius.

The radius can be hidden by clicking on the "Hide Radius" button on the top left corner.



HTL Leonding  
Outdoor Guide -  
Kabarett

5 ★

Official

Kabarett

Diese Tracks wurden von uns, dem Guideo-Team, im Rahmen des Tages der offenen Türen der HTL Leonding erstellt. Dabei haben wir versucht die Tracks unterhaltend zu gestalten und so zu erzählen, als wären wir ein alter Bekannter aus dem Mühlviertel. Um die Längen der Tracks zu bestimmen, sind wir den Schulweg abgegangen und haben die verschiedenen Zeiten und Wege dokumentiert. Die ersten Tracks sind alternativer Versuch etwas formeller und

Detail page of a guide - Mobile

The guide can be started in the detail view, which can be accessed by clicking the infobox, by clicking the floating action button in the lower right corner. If the guide has been started, you can walk around and as soon as you are located in a radius of a track, the track will play automatically.

## Listening to Audio Guides



If the user arrives at a track, the track will be played automatically. However, if there is a track currently playing, the new tracks will be added to the queue. When the track ends, it will be disabled so it will not get played again and the new track in the queue gets played automatically. If the user leaves the track's vicinity, while the track is in the queue, it will get removed from the queue.

## Backend Structure

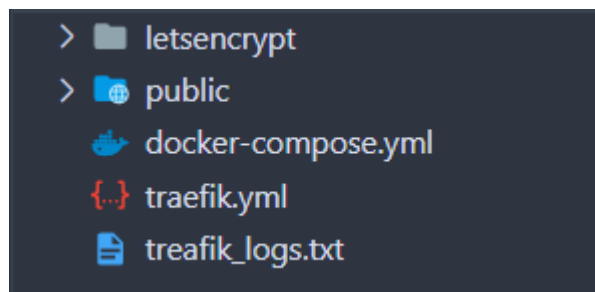
The backend consists of a docker-compose file, which starts all needed containers (traefik, nodejs backend, angular frontend), and the traefik configuration (traefik.yml). Furthermore, it needs a folder, where all uploaded

files (images, audio files, ...) of the users are stored (in this case the public folder).

The docker-compose file can be used with the classical docker-compose commands:

```
docker-compose up
docker-compose down
```

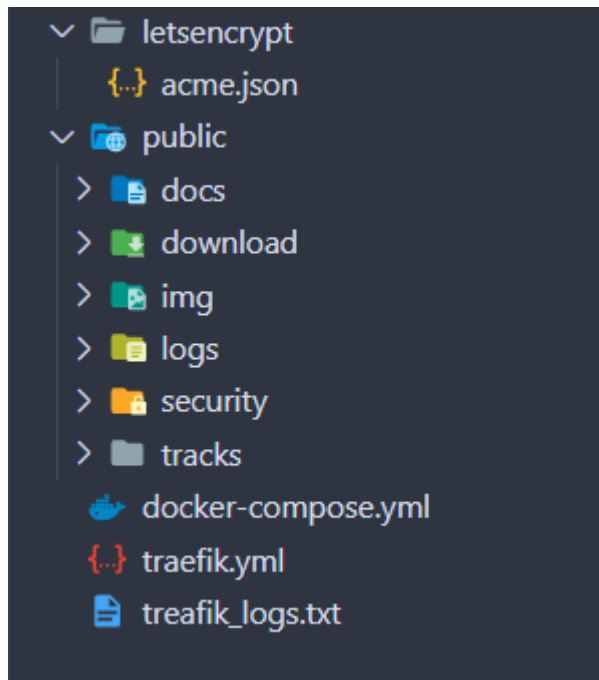
After starting the docker-compose file, Traefik creates the traefik\_logs.txt file and the letsencrypt folder.



The letsencrypt folder stores the acme.json file, which contains information about the generated letsencrypt certificate.

The nodejs backend creates the img, docs, logs and tracks folders. The **download** folder has to be created manually and contains the current apk file of the android app.





### Meaning of the created subfolders

Folder Name	Tags
<u>img</u>	contains the uploaded user images (for profile or guide)
<u>logs</u>	contains the log file, which is created by the nodejs backend
<u>tracks</u>	contains the uploaded audio files of the user's tracks
<u>docs</u>	generated api documentation

Important: Your public folder on the file system has to be mapped with the public folder of the docker container (located at /app/public) in the volumes section of the guideo service in the docker-compose file

```
guideo:
  image: guideo/guideo:1.3.0
  environment:
    # .....
  networks:
    - backend
  volumes:
    - "./public:/app/public"
  depends_on:
    - mongo
```

```
labels:  
# .....
```

Because there were conflicts between the docker default network and the school network, we set the value of "bridge" to "none" in the `/etc/docker/daemon.json` file. Therefore, there is no default network on the school server anymore.