

Prikka
aka. My Turku Memories
Front End Documentation

Introduction

This is the documentation for the front-end of the project Prikka. The two main goals of the projects are:

- To provide a simple web application for people to post their memories. This way we can gather historical knowledge about Turku and other cities around. It could provide study and exhibition material for the museum
- Allow the users to browse and read each other memories via a map interface, and some basic filters.

This documentation will detail the different technologies, libraries, pages, and components used in the project.

Repository

https://github.com/Siriusval/TurkuMemories_ReactFront

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Technologies



We used NextJS, a React framework that provide SSR (Server-Side Rendering).

<https://nextjs.org/>



The project is written in typescript, a better way to have type checking and handle errors than JS.

<https://www.typescriptlang.org/>

Main libraries

Auth0

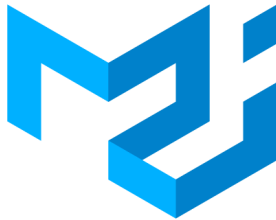


Third-party Authentication service.

Used for registering, logging In, logging Out.

<https://auth0.com/>

Material UI



Component / UI library that implement Material Design.

<https://material-ui.com/>

i18next



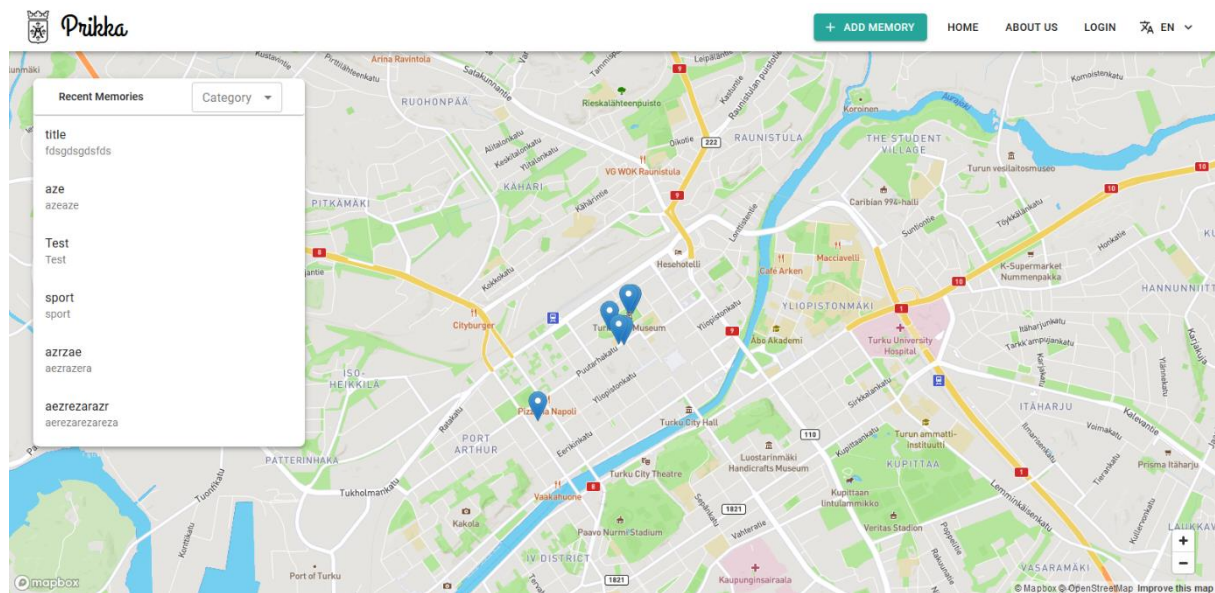
Internationalization framework for JavaScript.

<https://www.i18next.com/>

Pages

URLs are auto generated by NextJS.

Index

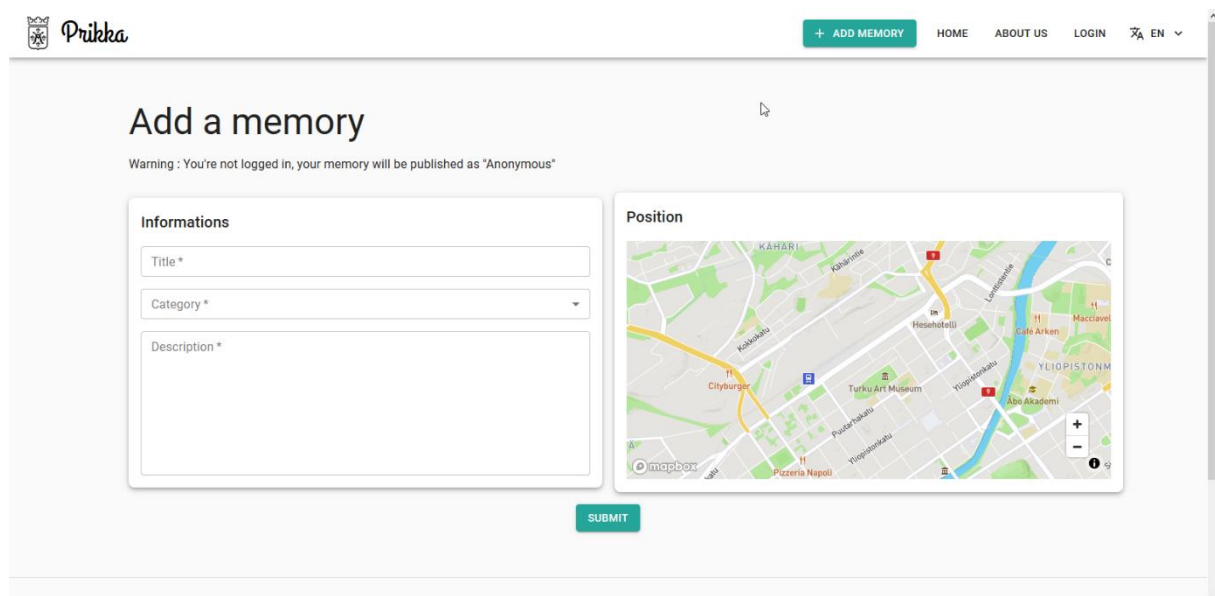


URL: /

The Index page contains AppBar, a map View and a list with the most recent memories.

You can click on a marker or a memory in the list to select a memory and see details.

Add Memory

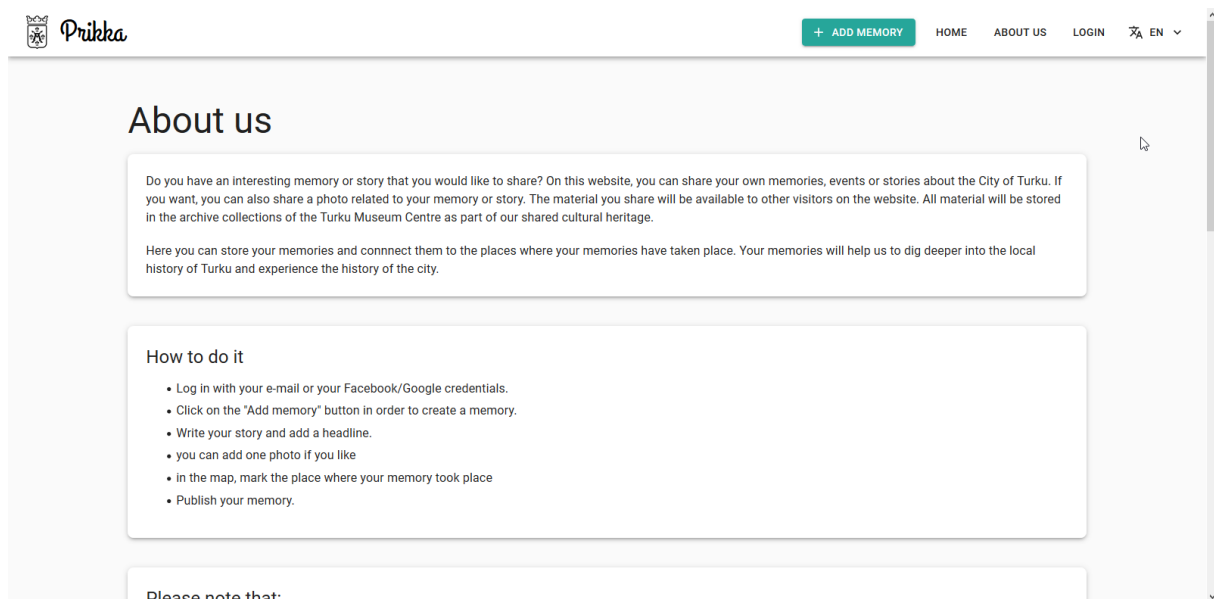


URL: /add_memory

The AddMemory page contains AppBar, a form, a map and a submit button.

The form needs memory information like "title", "category" and "description". The user also must click on the map to input the position of the memory.

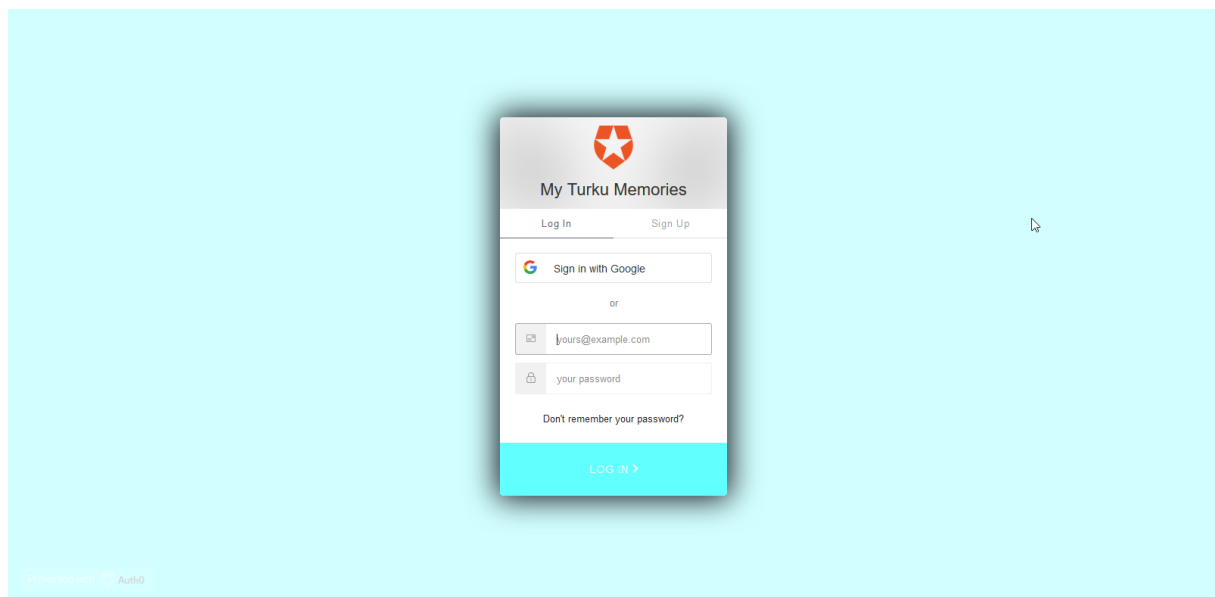
About



URL: /about

The About page contains information about the website, about the museum, the goal of the application, how to submit a memory, ...

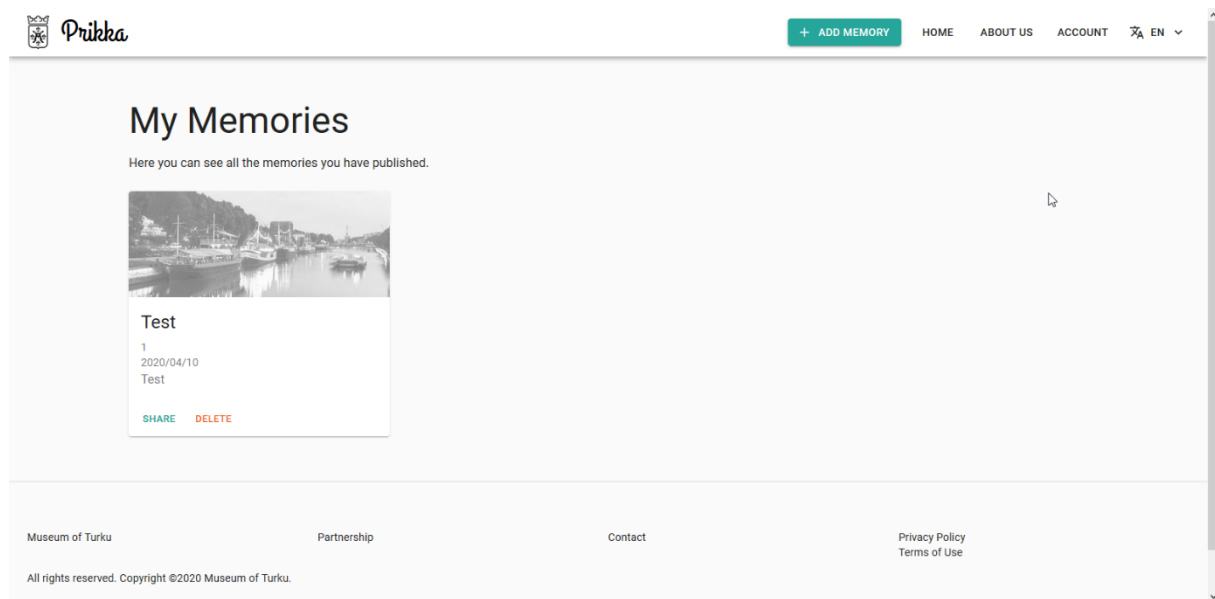
Login



URL: /login (manual redirect)

When clicking on the login button, there is a redirect to a page autogenerated by Auth0, a service provider for authentication. After login, it redirects back to the website with a connect.SID cookie.

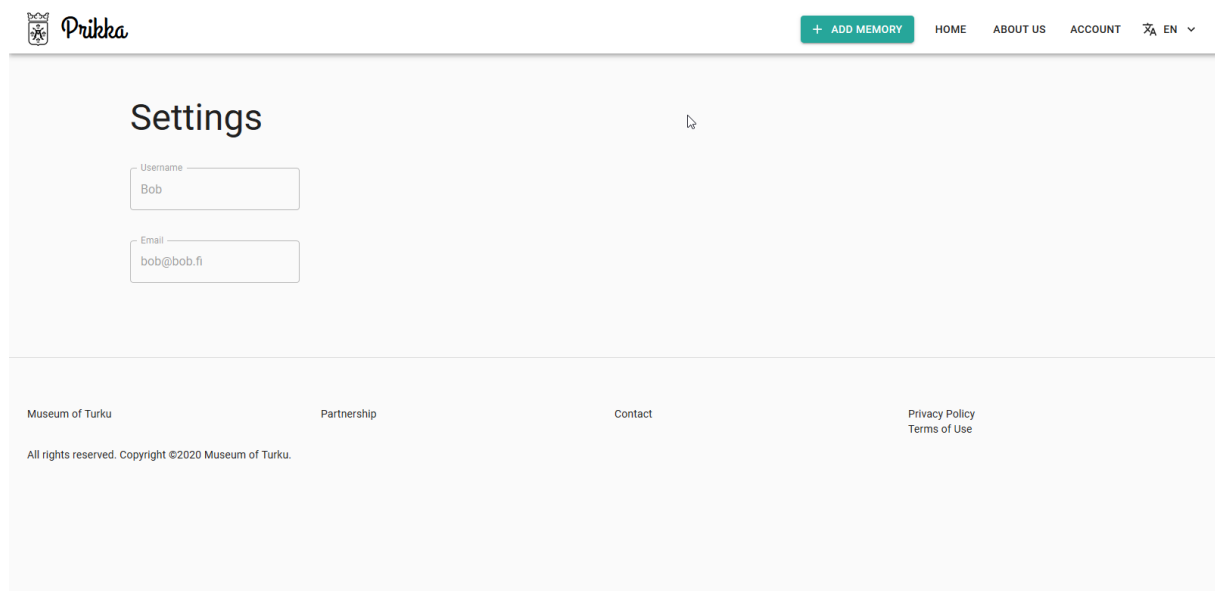
My Memories



URL: /my_memories

The page MyMemories contains all the memories created by a user. The latter can read, share them again or delete his/her memories.

Settings



URL: </settings>

The settings page has no real use for now but was used to change password before Auth0 implementation. User can see username and email.

Admin

URL: </admin>

Not completed yet.

Dashboard for admin to review reported memories, and manually add new categories.

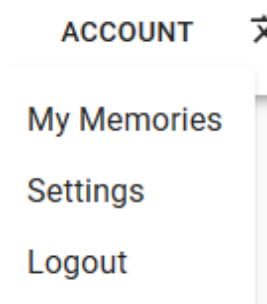
Logout

URL: </logout> (manual redirect)

Redirect to auth0 logout page. The latter redirect after to the website again.

Components

AccountMenu



Details

Account button with a Popper that contain options:

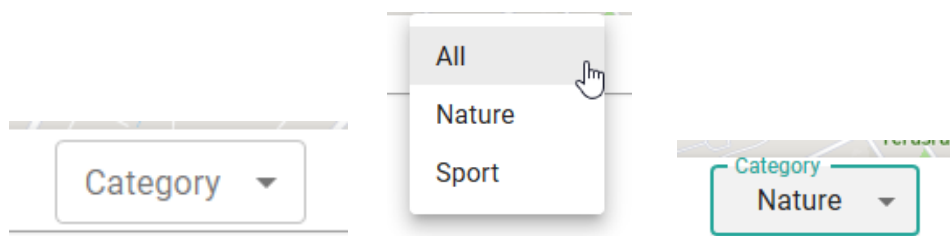
- My Memories
- Settings
- Logout

Only visible when user is logged In. Replace the login button.

Props

isAdmin: Boolean, if user is Logged in.

CategorySelect



Details

Select Menu that contain all different categories.

Props

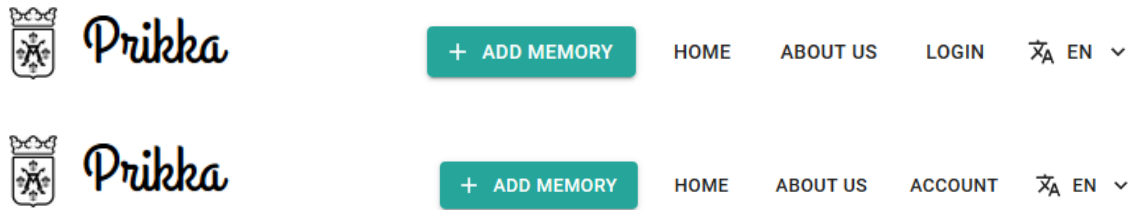
categories: JSON object, contains data from API call.

handleCategoryFilterChange: callback to update parent component.

required? Boolean, if value cannot be null, for form.

fullwidth? Boolean, if the menu can take the whole parent width.

CustomAppBar



Details

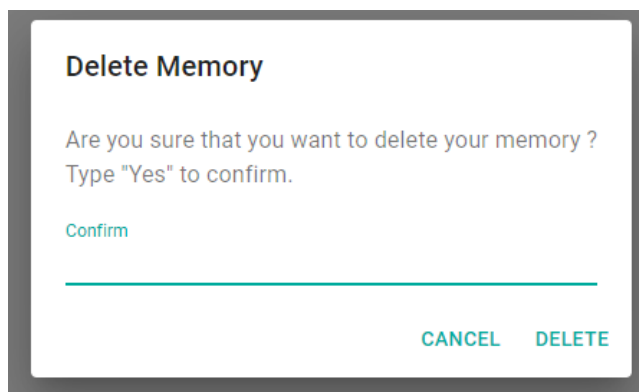
AppBar that contains link to different pages. Also allows the user to change language displayed.

Props

t: function, get access to i18next translation string values.

isLoggedIn: Boolean, if user is logged in.

DeleteMemoryDialog



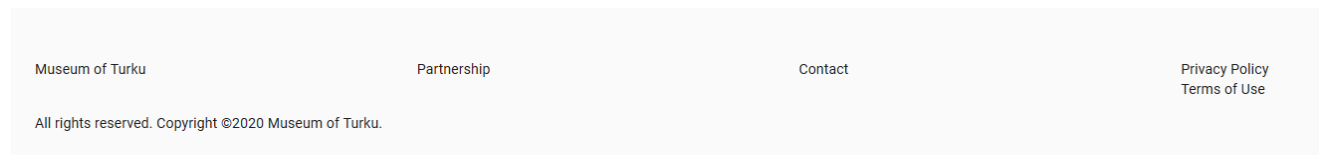
Details

Dialog that asks confirmation from user to delete his memory (in MyMemories page)

Props

handleDeleteMemory: function, callback to call delete API from parent and update UI.

Footer

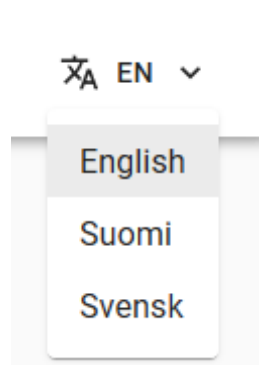


/ ! \: Not completed.

Details

Div that contains important information about the website.

LanguageMenu



Details

Button with Popper that displays all the languages available for the website.

Props

t: function, get access to i18next translation string values.

i18n: object, get access to methods to get and set current language.

Layout

NO VIEW

Details

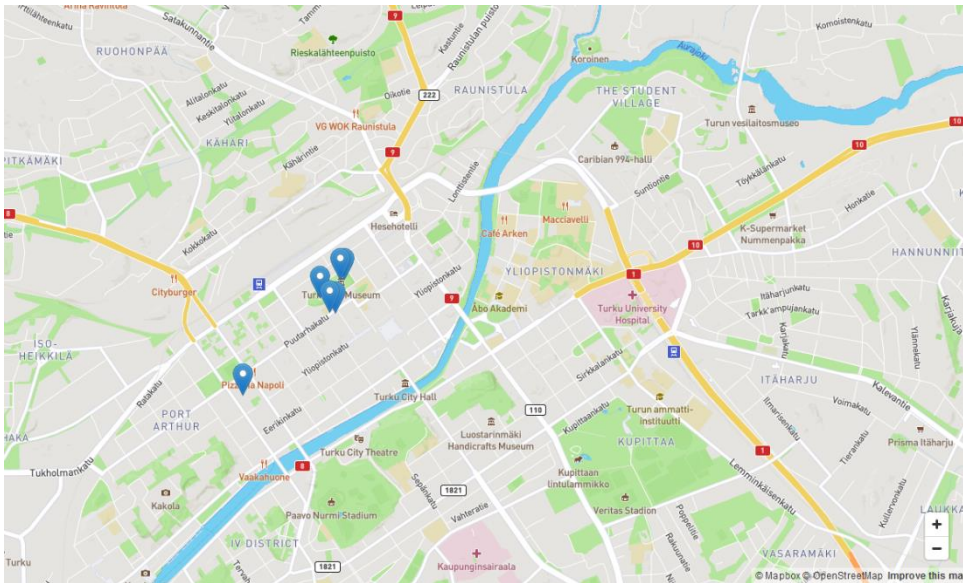
Wrapper that applies a custom style to each page (except index page w/ map)

Also apply footer.

Props

Children: component, component to wrap.

MapboxContainer



Details

Main map for index page.

Display map tiles and markers.

Props

Memories: JSON object, all memories data from API call.

selectedMemory: object, selected memory (change colour of marker)

handleSelectMemory: object, callback to update parent UI.

MemoryCard



Details

Card container to display each memory in MyMemories Page.

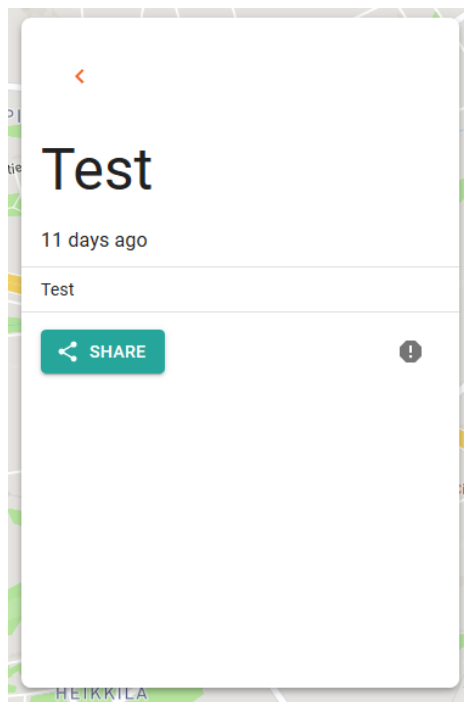
Props

memory: object, memory whose information are displayed.

controls? Boolean, if controls are displayed (share, delete)

handleDeleteMemory? function: callback for API and UI update

MemoryDetails



Details

Show details of a memory when one is selected via the map or the memory List.

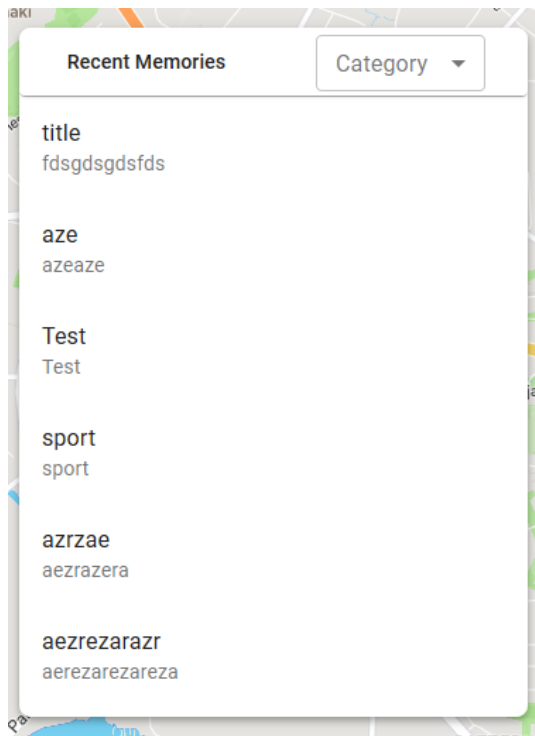
Displays back button, title, time, description, share button and report button.

Props

handleUnselectMemory: function, callback when back button is pressed.

selectedMemory: object, memory whose information need to be displayed.

PinnedSubheaderList



/ ! \ Not Completed, Dynamic loading not implemented (infinite list, loaded 10 per 10)

Details

List that displays the most recent memories.

Contain header with title and category filter, then contain list with memories tiles.

Props

Memories: object, memories to list

handleSelectMemory: function, callback when memory is selected/clicked.

categories: object, categories to show in filter.

handleCategoryFilterChange: function, callback when category is selected/clicked.

PinpointMap



Details

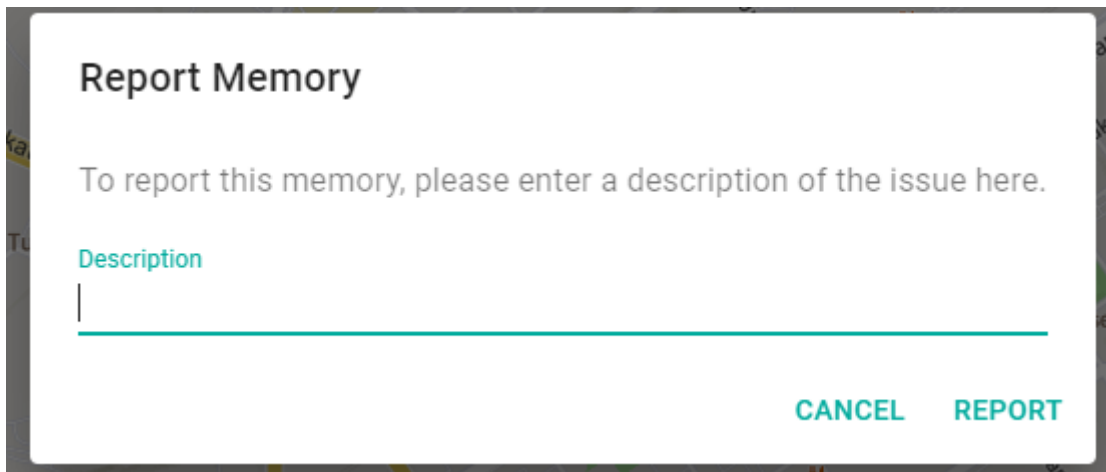
Map with a different behaviour than MapboxContainer.

Used for Add Memory form, react to on Click event.

Props

handleClickPositionCallback: function, callback to transmit position (lat, lng) to parent form.

ReportDialog



Details

Dialog when Report Memory button is pressed.

Props

memory: object, memory to report.

Contexts

AuthContext

Details

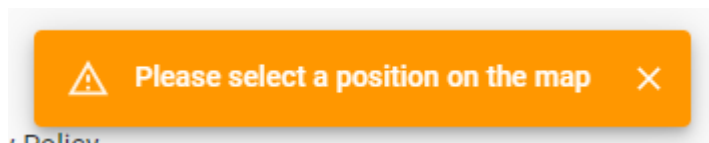
Spread props about user state into children components.

Props

isLoggedIn, setIsLoggedIn: Boolean, function

isAdmin, setIsAdmin: Boolean, function

SnackbarContext



Details

Allow every page to show a snackbar.

Props

```
displaySuccessSnackbar(newMessage: string): void;  
displayInfoSnackbar(newMessage: string): void;  
displayWarningSnackbar(newMessage: string): void;  
displayErrorSnackbar(newMessage: string): void;
```

Services

APIs

Contains all APIs that can be called, see code for comments.

```
apis = {  
  memories: {  
    createMemory,  
    getMemoryById,  
    getMemoriesByCategory,  
    updateMemoryById,  
    deleteMemoryById,  
    getAllMemories,  
    getUserMemories,  
    createMemoryReport,  
    getMemoryReportsById,  
  },  
  auth: {  
    localLogin,  
    localRegister,  
    localResetPassword,  
    googleLogin,  
    googleRedirect,  
    facebookLogin,  
    facebookRedirect,  
    isLoggedIn,  
  },  
  categories: {  
    createCategory,  
    getAllCategories,  
  },  
};
```

Environment variables

PORT=3000

REACT_APP_MAPBOX_TOKEN=pk.aaaaaaaaaaaaaaaaaaaaaaaaaaaa //example

FRONT_URL=http://localhost:3000 //example

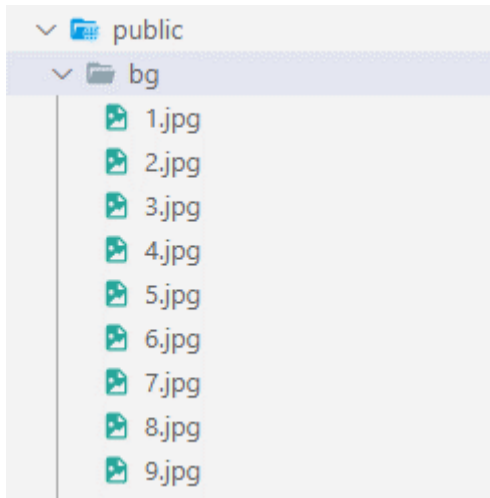
BACK_URL=https://localhost:4500 //example

LOGIN_URL=/api/auth-management/login

LOGOUT_URL=/api/auth-management/logout

Public resources

Bg folder

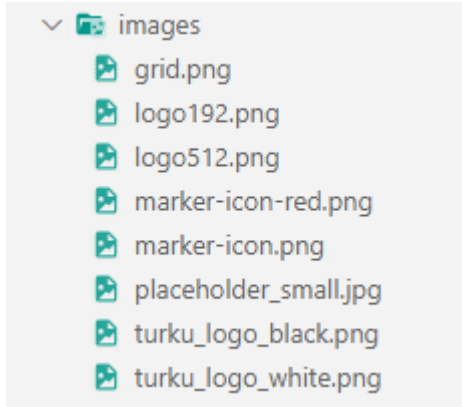


Details

Contains all backgrounds for old login and register page.

Not used since auth0 implementation.

Images folder



Details

Grid: placeholder for page background

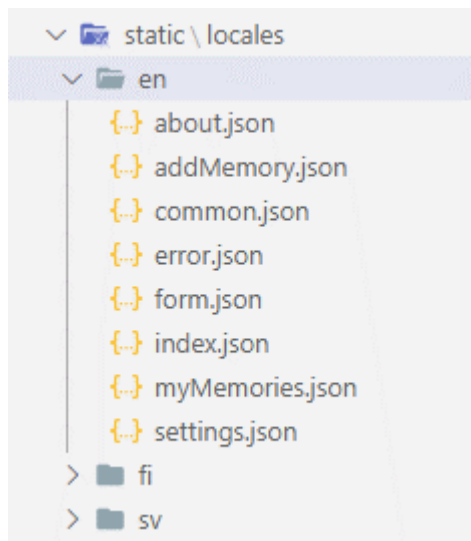
Logo192/512: MyTurkuMemories Logo

Marker-icon.x.png: icon displayed on map.

Placeholder_small: placeholder for memories without picture

Turku_logo_x: Turku logo used in CustomAppBar

Static folder



Details

Contains all the translations files and string values for the website.

One per page + common file.