

Frontend component documentation

Document lists files and custom React Hooks functional components used in the application user interface. All the imports from React and React Material UI are not listed separately in this document. Exports and imports in custom functional React components are listed below.

Files index.html and index.js (imports App from Pallas.js) are automatically generated by create-react-app bootstrap and they render the frontend application itself, which consist of following files:

AddSegment.js

- **function AddSegment**
 - Renders dialog for adding new segment
 - Handles functionalities regarding adding new segment
- **exports**
 - AddSegment

AddUser.js

- **function AddUser**
 - Renders dialog for adding new user
 - Handles functionalities regarding adding new user
- **exports**
 - AddUser

BottomNav.js

- **function BottomNav**
 - Renders navigation bar (map, snow types, weather, management) for laptop and mobile layouts
- **exports**
 - BottomNav

DisplaySnowType.js

- **function DisplaySnowType**
 - Renders snow type icon, name and skiability meter
- **exports**
 - DisplaySnowType

EditOwn.js – not in use anymore

- **function EditOwn**
 - Renders dialog for editing logged in user's own information
 - Handles functionalities regarding editing user's own data
- **exports**
 - EditOwn

Info.js

- **function Info**
 - Renders current snow information component (SnowRecordView) of chosen segment
 - Renders dialog and handles snow information update actions on chosen segment (for logged in user)
- **exports**
 - Info
- **imports**
 - SnowRecordView, WriteUserReview

Login.js

- **function Login**
 - Renders login button and login dialog
 - Includes functionalities of the login at the frontend (api call to user login)
- **exports**
 - Login

Logout.js

- **function Logout**
 - Renders logout button and logout dialog
- **exports**
 - Logout

Manage.js

- **function Manage**
 - Renders user management view, segment management view or review view (for logged in users)
 - Handles change between the three management views
- **exports**
 - Manage
- **imports**
 - SegmentManage, UserManage, ReviewManage

NewMap.js

- **function Map**
 - Renders segment's filtering on the map
 - Handles actions when segment is selected from the map
- **exports**
 - Map
- **imports**
 - PallasMap

Pallas.js

- **function App**
 - Renders page layout depending on hook's states
 - Stores token for checking if user id logged in
 - Stores almost all the necessary information about application (segments, data of logged in user, etc.)
- **exports**
 - App
- **imports**
 - Map, Manage, Info, WeatherTab, BottomNav, WelcomeView, Login, Logout, SnowTypes

PallasMap.js

- **function PallasMap**
 - Renders map
 - imports mablibre-gl package for the map
 - Displays coloring for segments
 - Handles map zooming levels
 - Controls displaying user location
 - Renders hotel icon and popup
- **exports**
 - PallasMap

reviewManage.js

- **function reviewManage**
 - Renders all user reviews with user comments on management review section (for logged in users)
- **exports**
 - reviewManage

SegmentManage.js

- **function SegmentManage**
 - Renders a view of all segments in the database
 - Renders dialogs for and handles deleting and editing a segment
 - For logged in users (operator or admin)
- **exports**
 - SegmentManage
- **imports**
 - AddSegment

SnowRecordView.js

- **function SnowRecordView**
 - Renders information about snow situation in chosen segment and segment's sponsor logos
 - Renders buttons for adding user reviews
- **exports**
 - SnowRecordView
- **imports**
 - DisplaySnowType

SnowTypes.js

- **function Snow Types**
 - Renders page for information of snow types
- **exports**
 - SnowTypes

UserManage.js

- **function UserManage**
 - Renders a view of all users in the database
 - Renders dialogs for and handles deleting and editing user data
 - Stores user data
 - For admin users only
- **exports**
 - UserManage
- **imports**
 - AddUser

WelcomeView.js

- **function WelcomeView**
 - Renders welcome view which contains information about the application and a spot for sponsor logos
- **exports**
 - WelcomeView
- **imports**
 - welcome_text.txt

WriteUserReview.js

- **function WriteUserReview**
 - Renders view where user can leave snow review
 - Renders view where user can write a comment
- **exports**
 - WriteUserReview

weather/DataCalculations.js

- Contains different functions for weather data handling and calculation
- This weather data is saved to state of WeatherTab component

weather/Statistics.js

- **function Statistics**
 - Displays short interval and winter weather statistics
- **exports**
 - Statistics

weather/WeatherInfo.js

- **function WeatherInfo**
 - Displays information for 3 days weather
- **exports**
 - WeatherInfo

weather/WeatherTab.js

- **function WeatherTab**
 - Renders components for three days weather info and statistics
 - Fetches weather information from Ilmatieteenlaitos API and stores weather information on React hook state
- **exports**
 - WeatherTab
- **imports**
 - WeatherInfo, Statistics (also functions from weather/DataCalculations.js)