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## **Types**

 $ProjectJSON = \{(name, contents) \in String \times Item^*\}$ 

Item = 
$$\{(name, type) \in \text{String} \times \text{IType} \mid \text{type} = \text{'file'}\}\$$
  
  $\cup \{(name, type, contents) \in \text{String} \times \text{IType} \times \text{Item}^* \mid \text{type} = \text{'folder'}\}\$ 

$$Path = String^*$$

### **Functions**

$$showProject \in ProjectJSON \rightarrow ()$$

• displays a project structure in the sidebar

onDoubleClick 
$$\in$$
 (IType  $\times$  (Path  $\rightarrow$  ()))  $\rightarrow$  ()

- the given function will be executed, if the user double clicks on an element within the project tree. The element must be of the given type, though.
- it will be given the file's path within the project tree as parameter

onNewFile 
$$\in$$
 (Path  $\rightarrow$  ())  $\rightarrow$  ()

- the given function will be executed, if the user wants to create a new file within the project structure, using the sidebar.
- it will be given the file's path within the project tree as parameter

onNewFolder 
$$\in$$
 (Path  $\rightarrow$  ())  $\rightarrow$  ()

• same as on NewFile, but for folders.

# JS Examples

#### Usage of showProject

```
showProject({
  'name': 'MyProject',
  'contents': [
      'name': 'src',
      'type': 'folder',
      'contents': [
           'name': 'java',
           'type': 'folder',
           'contents': [
            {
               'name': 'main',
               'type': 'folder',
               'contents': [
                   'name': 'Main.java',
                   'type': 'file'
                },
                   'name': 'Test.java',
                   'type': 'file'
              ]
            }
          ]
      ]
   },
{
      'name': 'README.md',
      'type': 'file'
```

```
}
]
});
```

# $Usage\ of\ on Double Click$

```
onDoubleClick('file', (path) => {
   //...
   console.log('A file was double clicked on!');
   console.log(path);
   //...
});
```