



ePortfolio – Philipp Rall

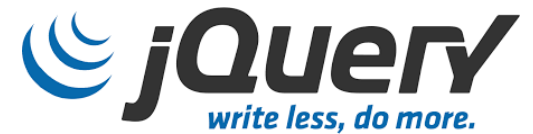
09.06.2020

Structure

1. What is OpenUI5?
2. What are its main features?
3. Advantages?
4. Disadvantages?
5. Basics
6. Demo

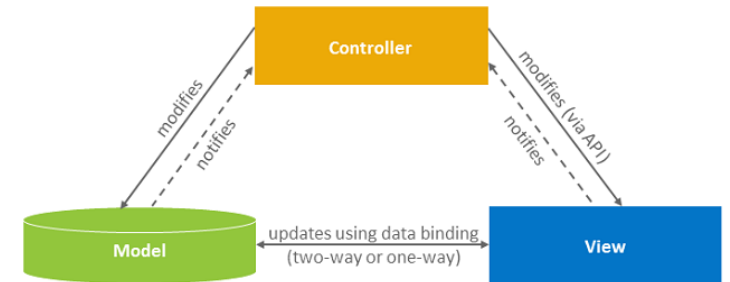
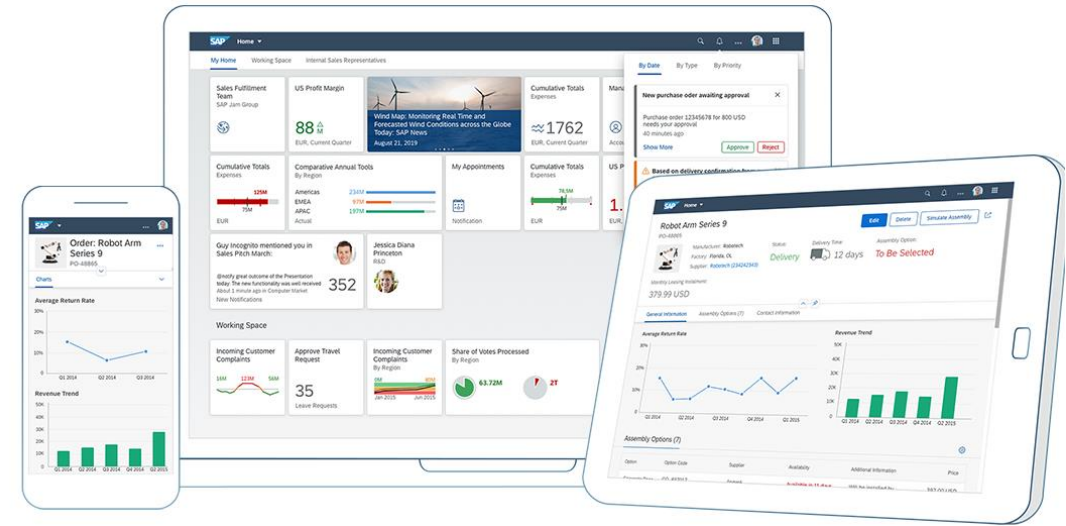
What it is?

- Application framework for business web applications
- Based on JavaScript, JQuery and Less
- Open-Source project, maintained by SAP
- Proprietary version: SAPUI5



Main features

- UI-element library
- Model-View-Controller architecture
- Data binding
- Internationalization



Advantages

- + Almost no HTML/CSS needed
- + Design Consistency
- + Predefined layouts for many use cases
- + Strong internationalization support
- + Accessibility by default

Disadvantages



- Performance
- Looks always like an OpenUI5 app
- No mobile native development

Basics

Main files:

- Index.html
- Component.js
- Manifest.json

Basics

Main files:

- **Index.html**
- Component.js
- Manifest.json

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <title>OpenUI5 Hello World</title>
6      <script
7          id="sap-ui-bootstrap"
8          src="https://openui5.hana.ondemand.com/resources/sap-ui-core.js"
9          data-sap-ui-theme="sap_fiori_3"
10         data-sap-ui-libs="sap.m"
11         data-sap-ui-compatVersion="edge"
12         data-sap-ui-async="true"
13         data-sap-ui-resourceroots='{
14             "se.openui5.helloworld": "./"
15         }'
16         data-sap-ui-oninit="module:sap/ui/core/ComponentSupport">
17      </script>
18  </head>
19  <body class="sapUiBody" id="content">
20      <div data-sap-ui-component data-name="se.openui5.helloworld"
21          data-id="container" data-settings='{ "id" : "helloWorld" }'>
22      </div>
23  </body>
24  </html>
25
```


Basics

Main files:

- Index.html
- **Component.js**
- Manifest.json

```
1  sap.ui.define([
2    "sap/ui/core/UIComponent"
3  ], function (UIComponent) {
4    "use strict";
5
6    return UIComponent.extend("se.openui5.helloworld.Component", {
7
8      metadata : {
9        manifest: "json"
10      },
11
12      init : function () {
13        UIComponent.prototype.init.apply(this, arguments);
14      }
15    });
16
17  });
```

Basics

Main files:

- Index.html
- Component.js
- **Manifest.json**

```
1  {
2    "_version": "1.21.0",
3    "sap.app": {
4      "id": "se.openui5.helloworld",
5      "type": "application",
6      "title": "Hello World",
7      "description": "Demo app for Software Engineering",
8      "applicationVersion": {
9        "version": "1.0.0"
10     }
11   },
12   "sap.ui": {
13     "technology": "UI5",
14     "deviceTypes": {
15       "desktop": true,
16       "tablet": true,
17       "phone": true
18     }
19   },
20   "sap.ui5": {
21     "rootView": {
22       "viewName": "se.openui5.helloworld.view.App",
23       "type": "XML",
24       "async": true,
25       "id": "app"
26     },
27     "dependencies": {
28       "minUI5Version": "1.60",
29       "libs": {
30         "sap.m": {}
31       }
32     }
33   }
34 }
35
```

Basics

Basic file structure:

- XML View
- Controller
- i18n.properties

Basics

Basic file structure:

- **XML View**
- Controller
- i18n.properties

```
1  <mvc:View
2      controllerName="se.openui5.helloworld.controller.App"
3      xmlns="sap.m"
4      xmlns:mvc="sap.ui.core.mvc">
5
6      <!--content-->
7
8  </View>
```

Basics

Basic file structure:

- XML View
- **Controller**
- i18n.properties

```
1  sap.ui.define([
2      "sap/ui/core/mvc/Controller"
3  ], function (Controller) {
4      "use strict";
5
6      return Controller.extend("se.openui5.helloworld.controller.App", {
7
8          //content
9      });
10 });
11
12
```

Basics

Basic file structure

- XML View
- Controller
- **i18n.properties**

```
1  #General
2  title=Demo App
3
4  #Buttons
5  buttonText=Say Hello
6  submit=Submit
7  restart=Restart
8
```



Thank you.