openSAP Evolved Web Apps with SAPUI5 Week 1 Unit 6: Getting Ready for the Course Exercises

Exercises

PUBLIC







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GETTING READY FOR THE COURSE EXERCISES

Summary

In this unit, you will learn how to perform the exercises in this course. You will get an overview on how the coding exercise handouts are structured. In addition, you are shown how to integrate Rufus – your personal assistant – so he can support you in your exercises and validate your code. In case you get stuck with any exercise, you will learn where to get the solution and how you can repair your app with it.

Preview

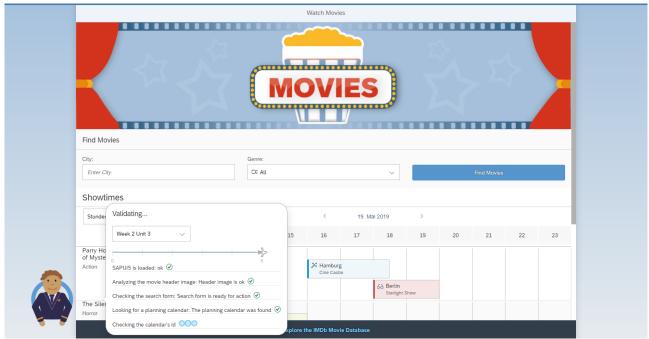


Figure 1 – Rufus checking the code in your app

Using the Coding Exercise Handouts

the filename.

This section explains how to use the handouts for the exercises in this course.

Explanation Screenshot 1. Open the exercise document Add code to trigger navigation after you have watched the unit The last step to make your navigation work is the coding of the event handler. But let's take a step back for a moment and learn about a piece of configuration that came with the SAPUIS Application template: the router initialization in the Component.js file. The Component.js is loaded first, and in it the manifest.json is called: at this point, your routing settings are loaded and are ready to be used. video. Explanation Screenshot Follow the steps described in All UI assets are encapsulated in a component that is instantiated from your index.html page. the document by applying the changes marked in yellow to Components are independent and reusable parts used in SAPUI5 applications. your app project in SAP Web IDE. Open your Component.js file and look at the implementation of the component. Note that the metadata is loaded from the **Note: Exercise Types** The exercises for a unit can be additional models that are not defined in the manifest. It also initializes the router. either configuration steps, code changes, or a mixture of both. webapp/view/App.view.xml Add the planningCalendar event "appointmentSelect" and the name of the function it triggers to you xml code. 2. Code changes follow the webapp/controller/App.controller.js following pattern: oAppointmentsBinding.filter(oFilterCity); a. The header indicates the file h to be changed. In case the file needs to be created New is put at the end in brackets b. Lines marked in yellow need to be added or exchanged. Add the function onAppointmentSelect to your App controller and pass oAppointment as a parameter c. Lines marked in red need to into it. Then you define two variables, oContext for capturing the binding context, and sPath to capture the data binding information. Now you need to extract the position of the selected movie and appointment from SPath – so you split it at each slash and save the result in an array. Then you call the route you defined previously in the app descriptor and provide the two mandatory parameters giving their respective position in the array. be deleted. d. The changes are explained below the code block. In the Detail controller, you now have to receive those two parameters to display the correct information Check the result of your File Build Run Hel Deploy Search changes frequently by running Run index.html (D) \rightarrow \leftarrow the app. 仚 **①** index.html x Note: When You're Working with </> 1 <!DOCTYPE html> Workspace SAP Web IDE): 2 **<** <html> movies Make sure that your changed files 3 ₹ <head> webapp are saved. Unsaved changes are 4 <meta c <meta n neo-app.json marked with an asterisk (*) behind

Integrate Rufus to Your App

Rufus – your personal flight assistant – will check the course exercises and only needs to be set up once for each new app. He will help you to stay on course with the exercises.

webapp/index.html

```
<!DOCTYPE html>
<html>
       <head>
             <meta charset="utf-8">
             <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
             <title>movies</title>
             <script id="sap-ui-bootstrap"</pre>
                    src="../../resources/sap-ui-core.js"
                    data-sap-ui-theme="sap_belize"
                    data-sap-ui-resourceroots='{"opensap.movies": "./"}'
                    data-sap-ui-compatVersion="edge"
                    data-sap-ui-oninit="module:sap/ui/core/ComponentSupport"
                    data-sap-ui-async="true"
                    data-sap-ui-frameOptions="trusted">
             </script>
             <script src="https://sap.github.io/openSAP-ui5-</pre>
       course/Rufus.js"></script>
       <body class="sapUiBody">
             <div data-sap-ui-component data-name="opensap.movies" data-</pre>
id="container" data-settings='{"id" : "movies"}'></div>
       </body>
</html>
```

Rufus is a validator script for this course and is hosted on a public GitHub repository. Just add the script tag after the UI5 bootstrap tag. It injects a button that can run tests against your application coding to verify the functionality that you have added.

Note: Validator Issues

As the URL and functionality of the validator may change at short notice during the course, be sure to check the forum announcements for additional details. Running the validator is optional, but we recommend you check your exercise coding with it.

Working with Rufus to Validate Your Exercise Code

The validation script will check the exercises starting from Week 2 Unit 1 to Week 4 Unit 2 as well as the challenges plus the units of the optional weeks. Validating your code is optional, but it may be helpful to check if your exercise code is correct.

Explanation Screenshot After adding Rufus to your app, 12 13 you should see him in the lower Parry Hotter and the Chamber left area of your screen Action whenever you run the app. The Silence of the Sheep Showtimes Click on the picture, or press F9 to open the validator menu. Stunden 12 13 14 Click the Select menu to open Parry Hotter and the Chamber of Myster the unit selection. Select: Select a unit **Note: Cookies** The first time you call the validator, or when you clear your browser cookies, the selection is empty. Afterwards, the last executed unit will be saved as a cookie for your convenience. 4. Choose the unit that you are Showtimes currently working on and that Validating... you want to validate. Week 2 Unit 3 16 5. The tests will automatically start Parry Ho of Myste to run, and the progress is Action updated after each test is Analyzing the movie header image: Header image is ok 🥝 executed. Checking the search form: Search form is ready for action 🥝 The Sile Looking for a planning calendar: The planning calendar was found **Note: Previous Tests** Checking the calendar's id As you build up your app during the course, you will refactor some parts. Therefore, not all tests from the previous units will run successfully.

Explanation

Screenshot

- If there is a problem with your exercise coding, the report status of the tests changes to red, and Rufus will be unhappy.
- 7. Check the error message, fix the code that causes the issue, and run Rufus again.

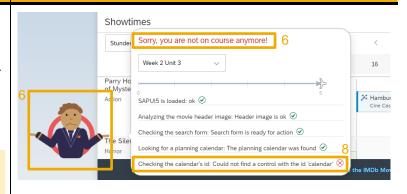
Note: Test Logic

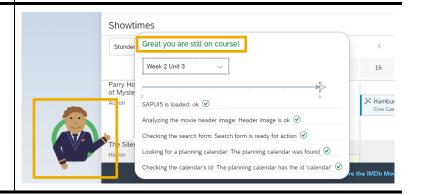
The tests will check that certain conditions are fulfilled in your app. They rely on

- specific controls being used,
- nesting orders,
- aggregations being filled,
- IDs set to a value that is specified in the exercise documents.

You need to stick closely to the solution exercises, otherwise the validation will probably not work.

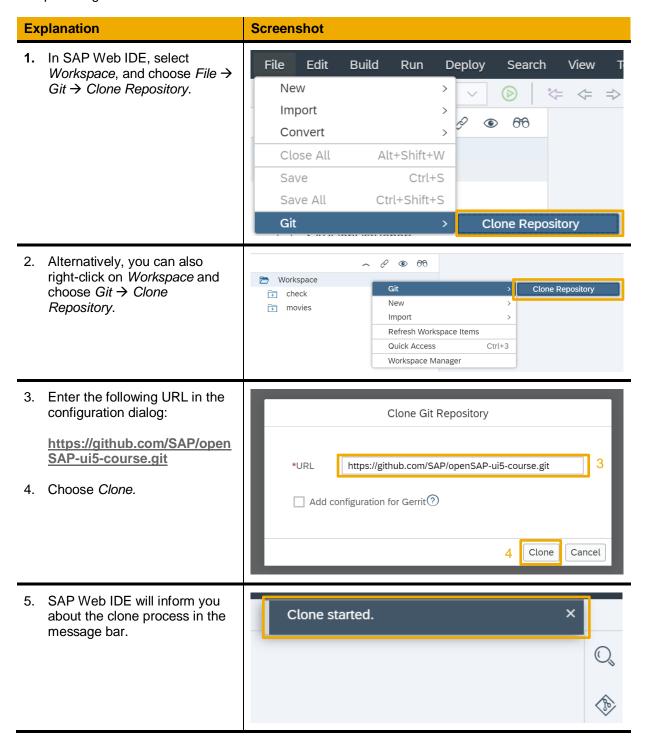
8. Once all tests have run successfully, the report status changes to green. Rufus looks happy.

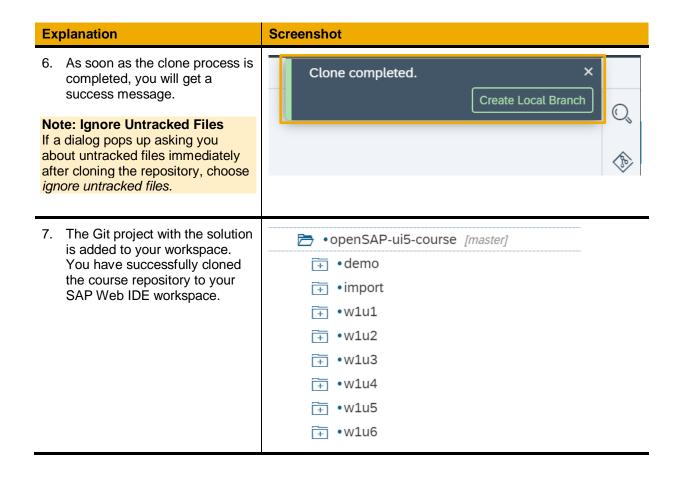




Clone the Course Repository from GitHub to Your SAP Web IDE

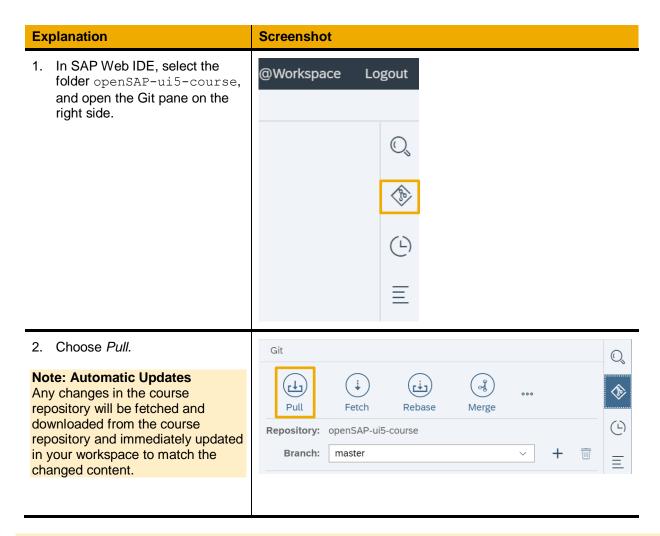
This section explains how to clone the course repository from the public GitHub to your SAP Web IDE workspace to get the solution for each unit exercise.





Update Exercise Solutions from GitHub in Your SAP Web IDE

The course repository on GitHub might be updated from time to time in case issues are reported, therefore it is recommended to check at the beginning of a new unit if any changes have been made on the master repository and, if that be the case, to update your repository accordinly. This section explains how to keep your clone up to date with the course repository.

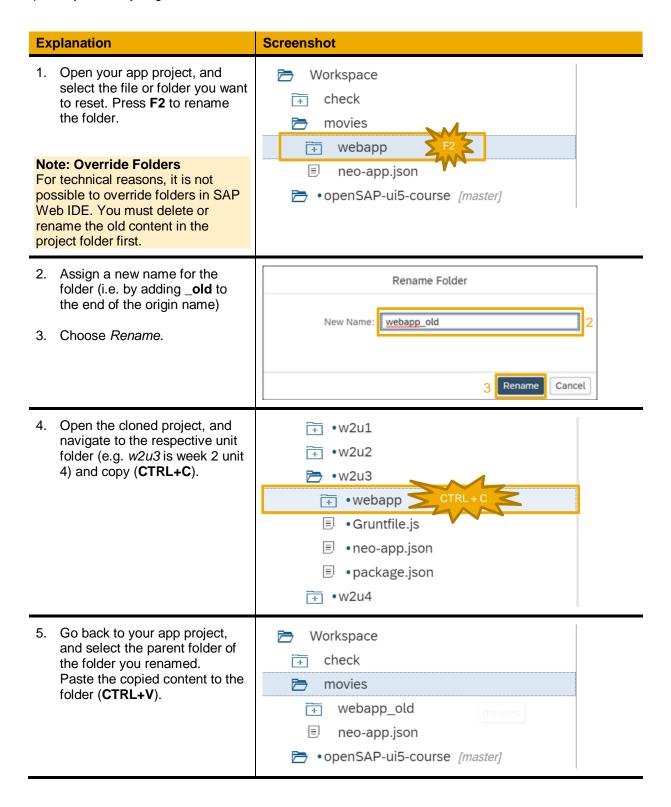


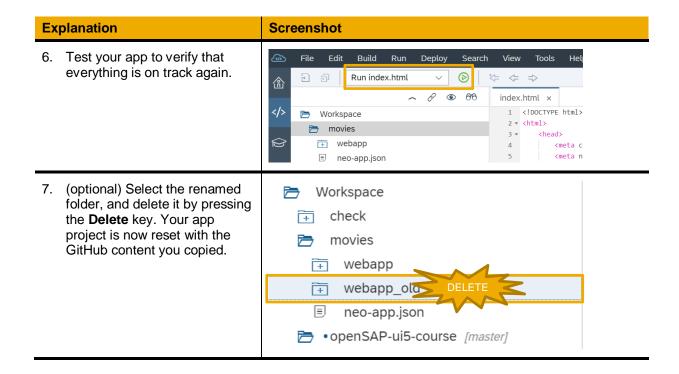
Note: Merge Conflicts

In case you made any manual changes to this project in your SAP Web IDE, this might lead to conflicts making it difficult or impossible to incorporate the changes from the course repository to your local clone. Therefore, we recommend using a local copy of the respective unit folder in case you want to experiment with it.

Reset Your App Project with the Exercise Solution from GitHub

In this section, you will learn how you can reset your app project with the exercise solution from the course repository in case you get stuck.





RELATED MATERIAL

- Course Solution GitHub Repository
- openSAP course <u>SAP Cloud Platform Version Control with Git</u>

Coding Samples

Any software coding or code lines/strings ("Code") provided in this documentation are only examples and are not intended for use in a production system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules for certain SAP coding. SAP does not warrant the correctness or completeness of the Code provided herein and SAP shall not be liable for errors or damages cause by use of the Code, except where such damages were caused by SAP with intent or with gross negligence.

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