

Metadata-Driven Test Generation for SAP Fiori Elements



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Integration Test

Maintain

Add Feature

Generate App

Fix Bug

Tl;dr: Virtual endpoints for the win

Local Preview

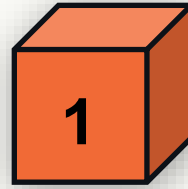
Develop

Refactor

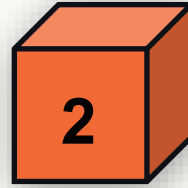
Adapt

Deploy

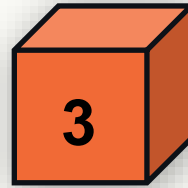
Agenda



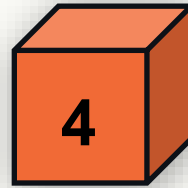
Problem



Solution

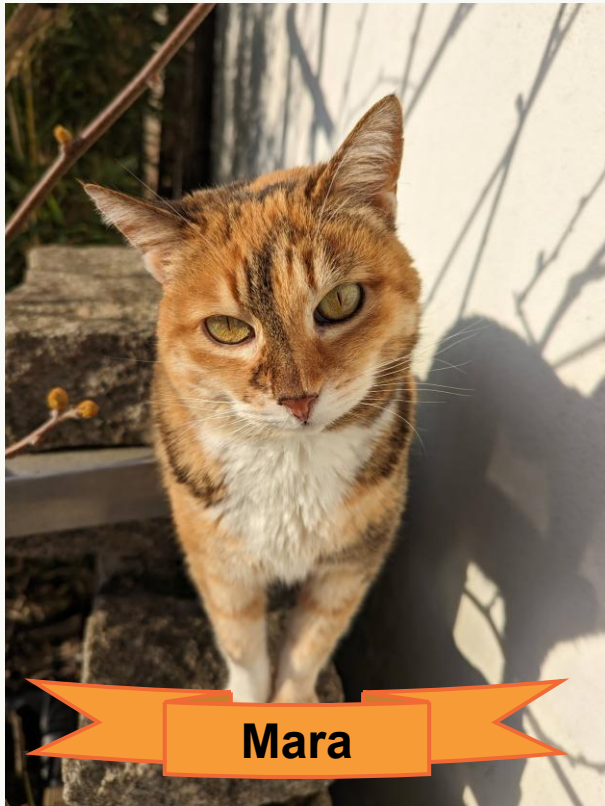


Demo 1



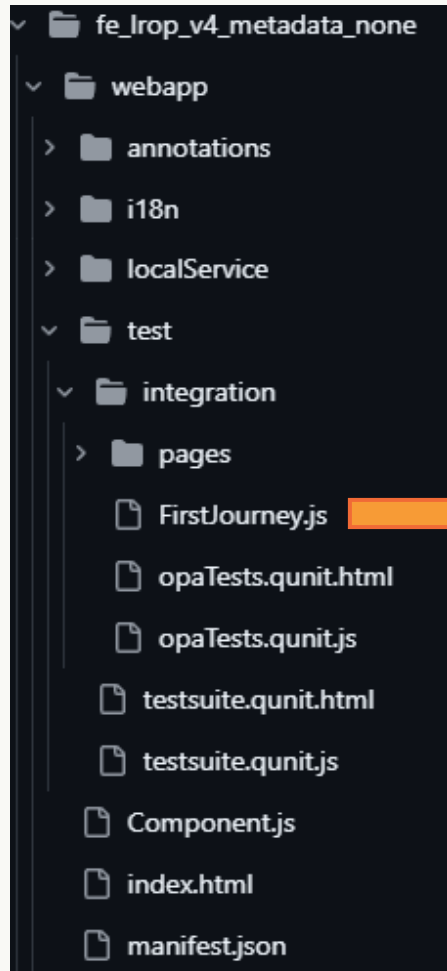
Demo 2

Emotional Support



Status Quo: SAP Fiori Generator

Basic test scaffold



```
sap.ui.define([
  "sap/ui/test/opaQunit",
  "./pages/JourneyRunner"
], function (opaTest, runner) {
  "use strict";

  function journey() {
    QUnit.module("First journey");

    opaTest("Start application", function (Given, When, Then) {
      Given.iStartMyApp();

      Then.onTheBillingBlockReasonList.iSeeThisPage();
    });

    opaTest("Navigate to ObjectPage", function (Given, When, Then) {
      // Note: this test will fail if the ListReport page doesn't show any data

      When.onTheBillingBlockReasonList.onFilterBar().iExecuteSearch();

      Then.onTheBillingBlockReasonList.onTable().iCheckRows();

      When.onTheBillingBlockReasonList.onTable().iPressRow(0);
      Then.onTheBillingBlockReasonObjectPage.iSeeThisPage();
    });

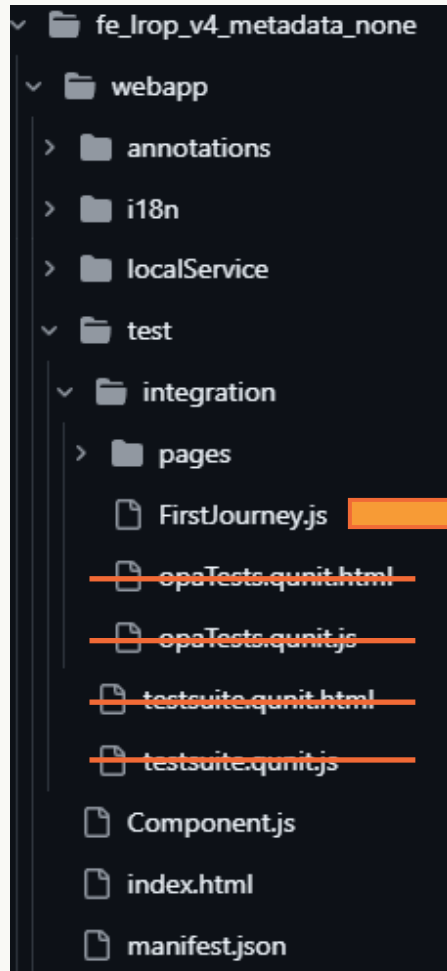
    opaTest("Teardown", function (Given, When, Then) {
      // Cleanup
      Given.iTearDownMyApp();
    });
  }

  runner.run([journey]);
});
```



Status Quo: SAP Fiori Generator

Basic test scaffold



```
sap.ui.define([
  "sap/ui/test/opaQunit",
  "./pages/JourneyRunner"
], function (opaTest, runner) {
  "use strict";

  function journey() {
    QUnit.module("First journey");

    opaTest("Start application", function (Given, When, Then) {
      Given.iStartMyApp();

      Then.onTheBillingBlockReasonList.iSeeThisPage();
    });

    opaTest("Navigate to ObjectPage", function (Given, When, Then) {
      // Note: this test will fail if the ListReport page doesn't show any data

      When.onTheBillingBlockReasonList.onFilterBar().iExecuteSearch();

      Then.onTheBillingBlockReasonList.onTable().iCheckRows();

      When.onTheBillingBlockReasonList.onTable().iPressRow(0);
      Then.onTheBillingBlockReasonObjectPage.iSeeThisPage();
    });

    opaTest("Teardown", function (Given, When, Then) {
      // Cleanup
      Given.iTearDownMyApp();
    });
  }

  runner.run([journey]);
});
```





I have to **manually** write OPA5 tests. This is an insult to my laziness.

Entrance: The metadata inspector



I think I can help you. Let me check that **metadata**.



Solution: SAP Fiori Generator



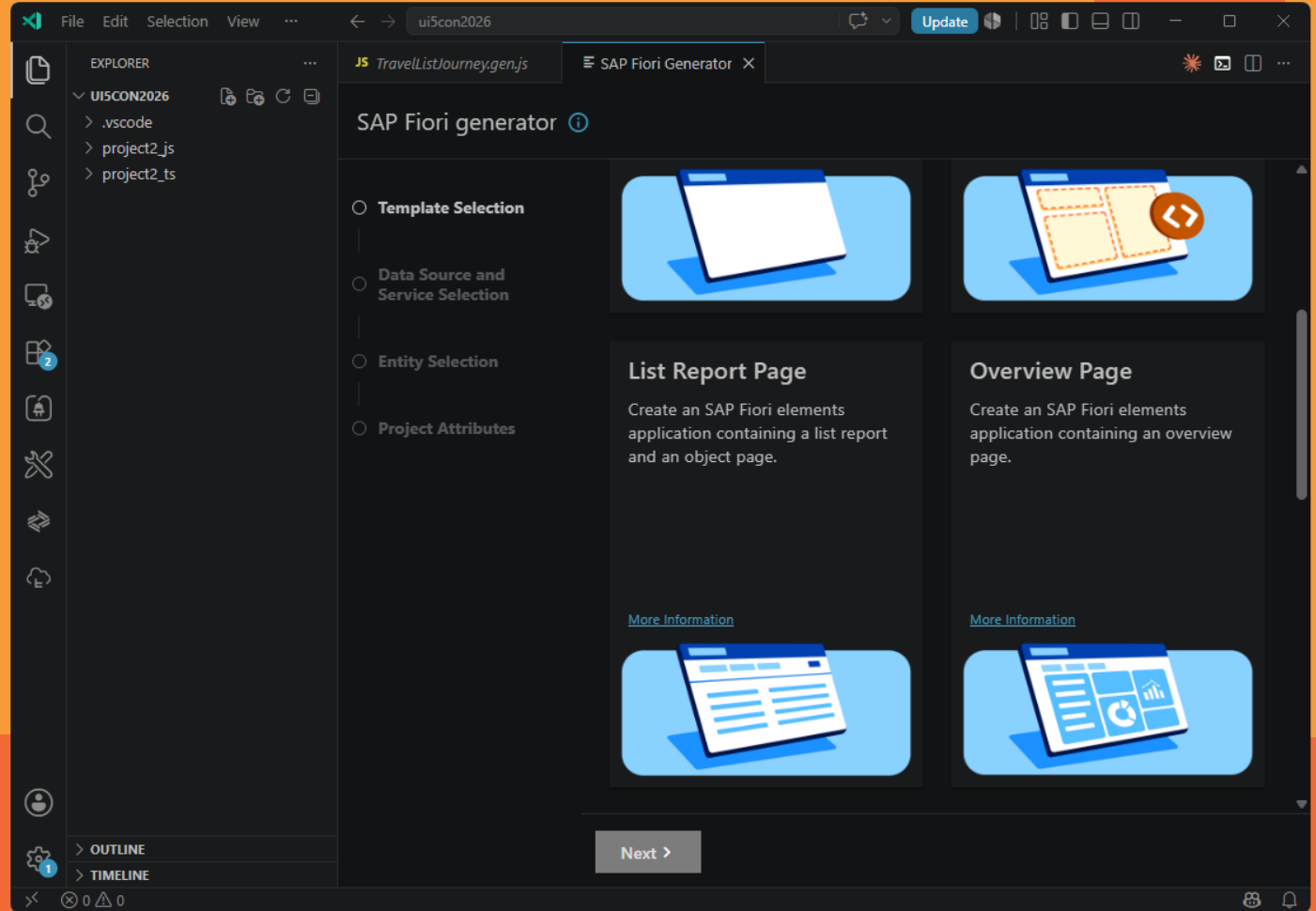
Generate meaningful OPA5 tests

- For List Report & Object Page
- Analyze `manifest.json`, `metadata.xml` & local annotations
- Available with latest SAP Fiori tools and getting even better over time

Demo 1

Application generation

- Generate a new application
- Check out OPA5 tests



Meanwhile, for existing applications...

What about
my existing
app?

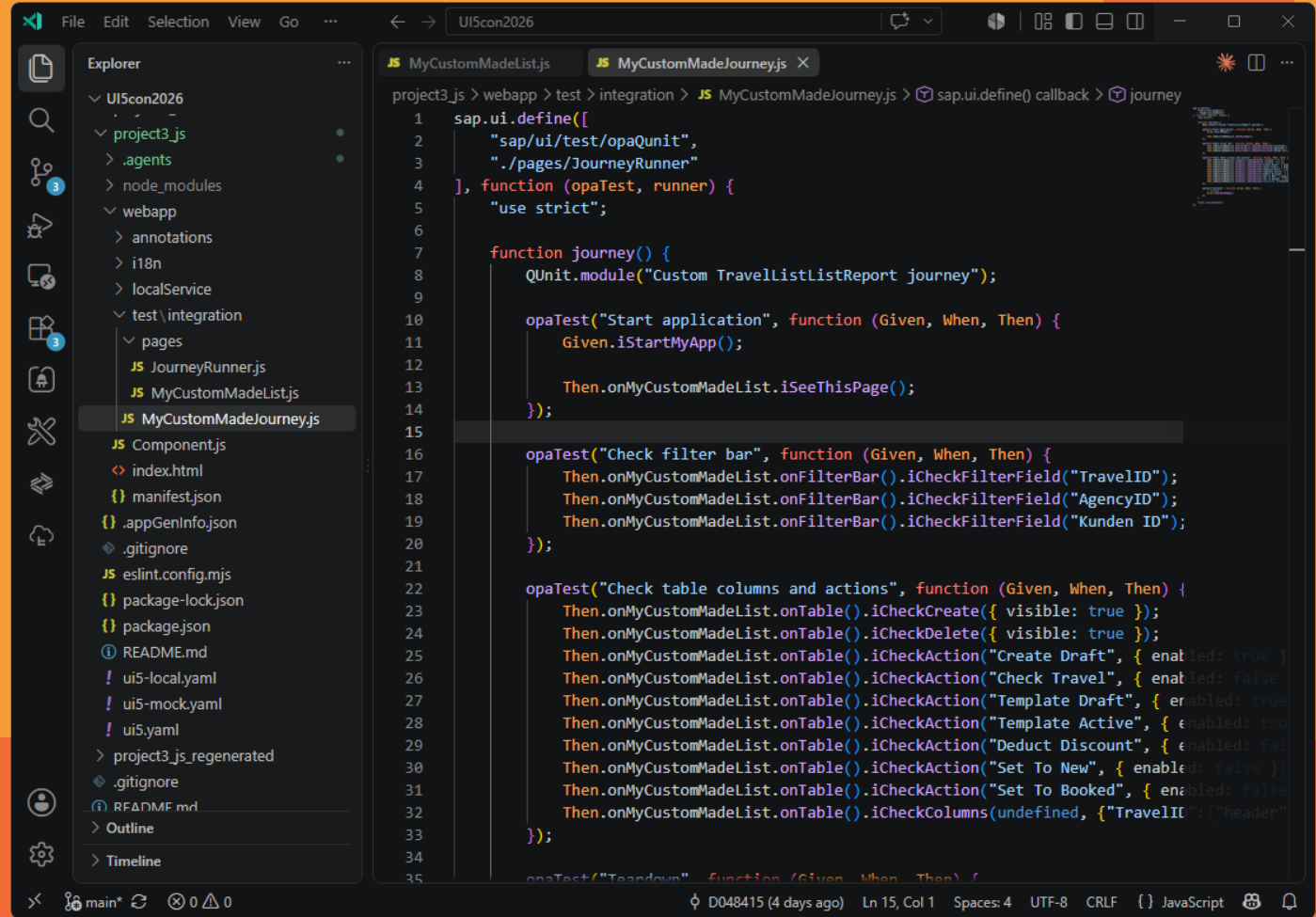
Don't mess with my
existing test setup!



Demo 2

Test re-generation

- (Re-)generate OPA5 tests for an existing application
- Check out OPA5 tests



The screenshot shows a VS Code editor with a project named 'UI5con2026'. The Explorer sidebar on the left displays the project structure, including folders like 'project3_js', 'webapp', and 'test/integration/pages'. The file 'MyCustomMadeJourney.js' is selected. The main editor area shows the content of this file, which is an OPA5 test script. The script defines a 'journey' function and includes several 'opaTest' blocks for testing the application's filter bar and table actions. The status bar at the bottom indicates the file is 'main*' and provides details about the editor's state.

```
project3_js > webapp > test > integration > JS MyCustomMadeJourney.js > sap.ui.define() callback > journey
1  sap.ui.define([
2      "sap/ui/test/opaQunit",
3      "./pages/JourneyRunner"
4  ], function (opaTest, runner) {
5      "use strict";
6
7      function journey() {
8          QUnit.module("Custom TravellistListReport journey");
9
10         opaTest("Start application", function (Given, When, Then) {
11             Given.iStartMyApp();
12
13             Then.onMyCustomMadeList.iSeeThisPage();
14         });
15
16         opaTest("Check filter bar", function (Given, When, Then) {
17             Then.onMyCustomMadeList.onFilterBar().iCheckFilterField("TravelID");
18             Then.onMyCustomMadeList.onFilterBar().iCheckFilterField("AgencyID");
19             Then.onMyCustomMadeList.onFilterBar().iCheckFilterField("Kunden ID");
20         });
21
22         opaTest("Check table columns and actions", function (Given, When, Then) {
23             Then.onMyCustomMadeList.onTable().iCheckCreate({ visible: true });
24             Then.onMyCustomMadeList.onTable().iCheckDelete({ visible: true });
25             Then.onMyCustomMadeList.onTable().iCheckAction("Create Draft", { enabled: true });
26             Then.onMyCustomMadeList.onTable().iCheckAction("Check Travel", { enabled: false });
27             Then.onMyCustomMadeList.onTable().iCheckAction("Template Draft", { enabled: true });
28             Then.onMyCustomMadeList.onTable().iCheckAction("Template Active", { enabled: true });
29             Then.onMyCustomMadeList.onTable().iCheckAction("Deduct Discount", { enabled: false });
30             Then.onMyCustomMadeList.onTable().iCheckAction("Set To New", { enabled: false });
31             Then.onMyCustomMadeList.onTable().iCheckAction("Set To Booked", { enabled: false });
32             Then.onMyCustomMadeList.onTable().iCheckColumns(undefined, {"TravelID": "header"});
33         });
34
35         opaTest("Teardown", function (Given, When, Then) {
```

ZO;WM – Zoned Out; Was Multitasking

What you get

- The Fiori tools generator massively improved OPA5 test data (re-)generation for OData v4 apps in JavaScript and TypeScript
- We will add the OPA5 test re-generation also in our @sap-ux/create CLI
 - Integration into 'MCP server for SAP Fiori'
 - Integration into Agent skill 'sap-fiori-create-cli'
- Save tokens, only use AI for additional OPA5 tests e.g., with the help of the brand-new SAP Fiori tools agent skill for OPA5 development



**Thanks.
Questions?**



Scan and share your thoughts!



**Metadata-Driven
Test Generation for
SAP Fiori Elements**

A smartphone screen showing a survey for UI5con 2026. The header has an orange pixelated background with the text 'UI5con 14. July 2026 St. Leon-Rot, Germany'. The main text explains the purpose of the survey and thanks the participant. The bottom section shows a rating scale from 1 to 8, with 'poor' at the top and '8' at the bottom. The scale is currently empty.

UI5con 14. July 2026
St. Leon-Rot, Germany

We're eager to hear your insights! This survey aims to gather **your feedback on the above named session or workshop at UI5con 2026.**

Your responses will help the presenter understand what worked well and what they can improve in future events.

Thank you for taking the time to participate!

How do you rate the session? *

poor

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

6 ☐

7 ☐

8 ☐