

Hands-on Lab: Deploying Fiori Apps with SAP Joule for Developers

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Environment Information

1. Please use GOOGLE CHROME as your browser
2. SAP Build App URLs
 - o [SAP Build Apps](#)
3. Lab User Information
 - o User: **labuser<##>@vasscompany.com**
 - o Password: Newpa55!
4. Replace <##> with your Lab User Number assigned by the instructors

SAP ID Service

SAP Universal ID

Sign In

E-Mail, ID, or Login Name

labuser01@vasscompany.com

Sign in

← labuser01@vasscompany.com

Password

Newpa55!


Sign in

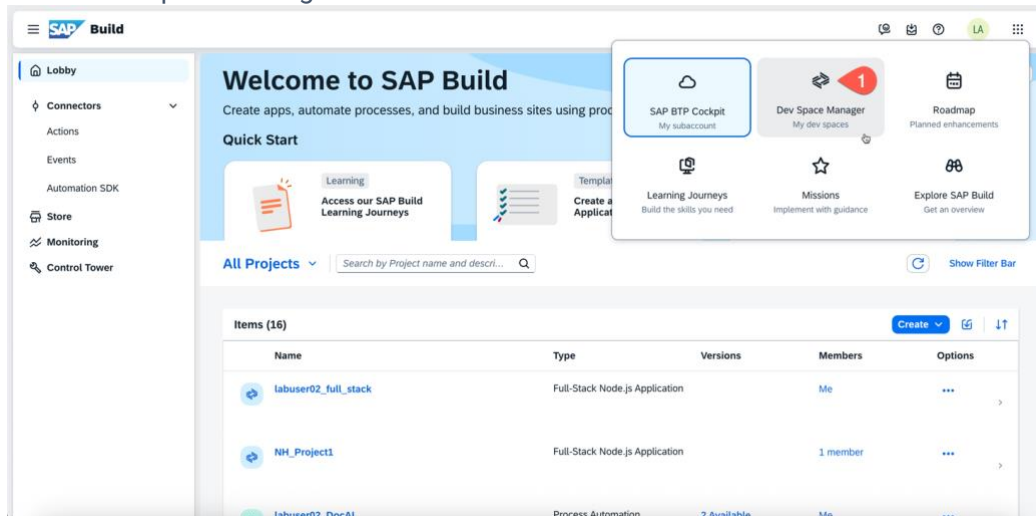
Forgot password?

Continue

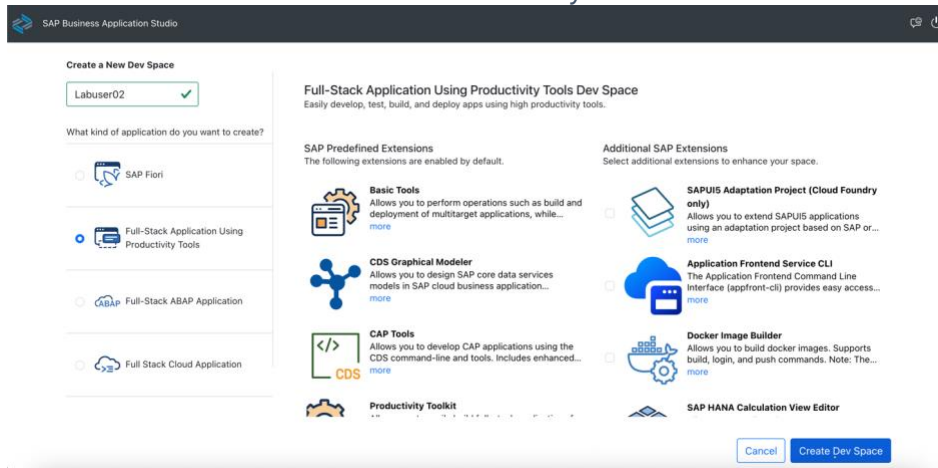
Create your Project in SAP Build

Our first step is to create a workspace for the new development. All prerequisites for SAP Joule for Developers have been deployed and you are ready to start work.

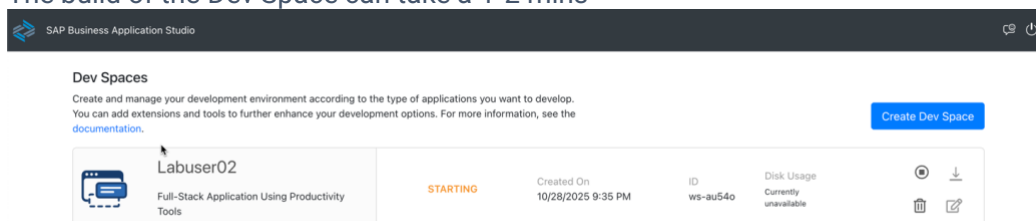
1. Open an Chrome Browser and navigate to [SAP Build Apps](#)
2. Enter your Lab UserID and Password
3. On the upper right, click the  icon.
4. Select Dev Space Manager



5. _____
6. Select Create Dev Space
7. End a Name: Labuer##
8. Select Radio Button *Full Stack with Productivity Tools* and then Create Dev Space button.




9. _____
10. The build of the Dev Space can take a 1-2 mins

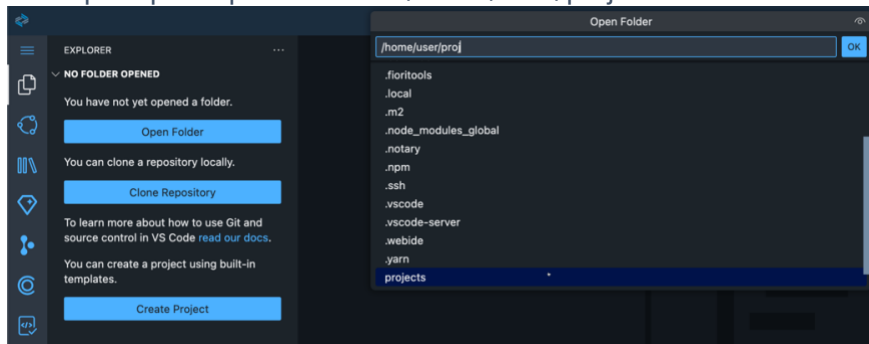


11. _____
12. When it says *RUNNING* click on the Dev Space
13. Do Not Click on Create Project yet.

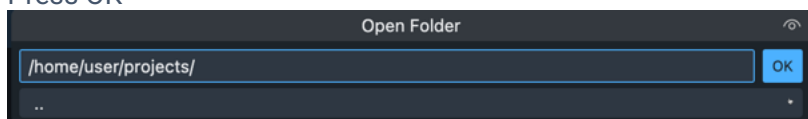
Prepare your prompt and image


In this next section we're going to upload a previously prepared prompt for Joule and a rough wireframe for an application. This step is very important and requires some navigation at the terminal level to create directories and markdown files.

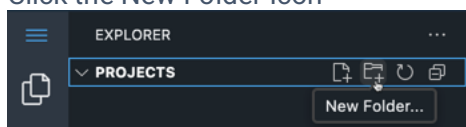
1. On your blank project, click the File Explorer icon  in the upper left.
2. Click on Open Folder
3. When prompted open the folder `/home/user/projects`



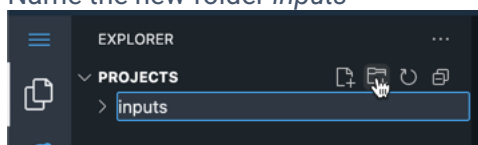
4. Press OK



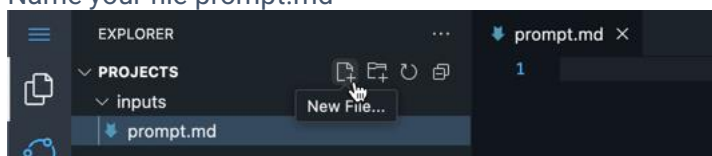
6. Select the File Explorer icon  again
8. Click the New Folder Icon



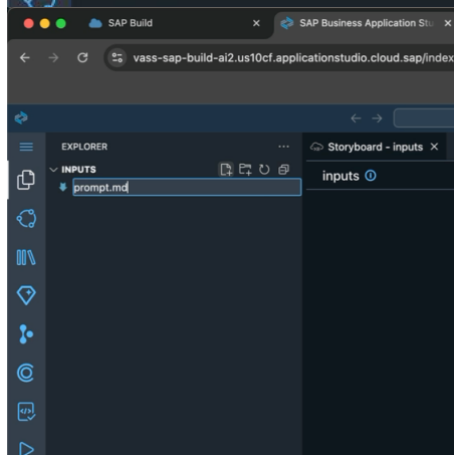
9. Name the new folder `inputs`



11. Open the folder, its empty, but the icon will change to down position
12. Click Add File button
14. Name your file `prompt.md`

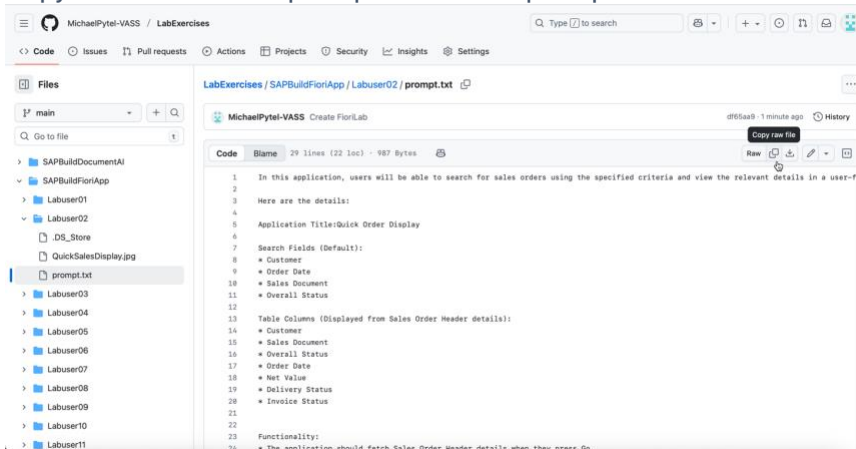


- 15.

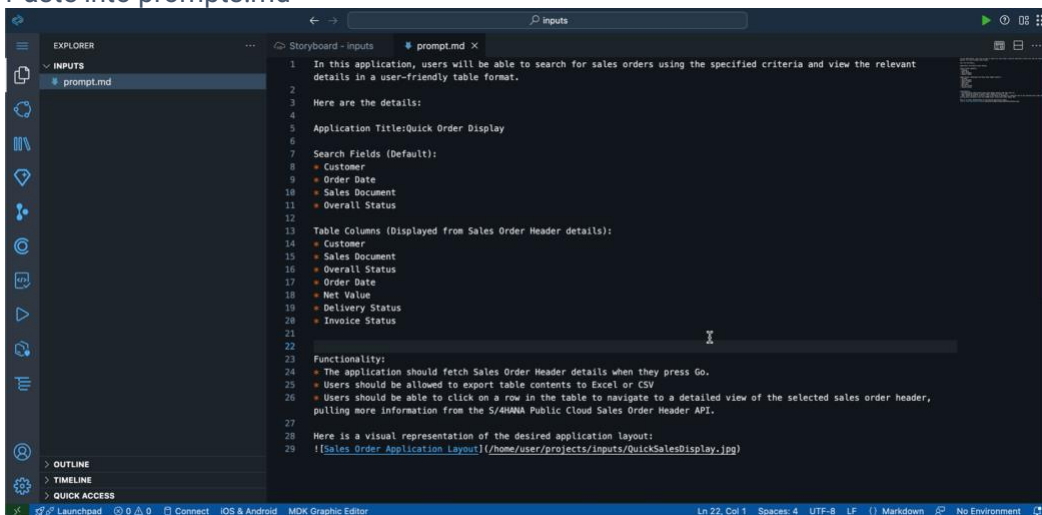


- 16.

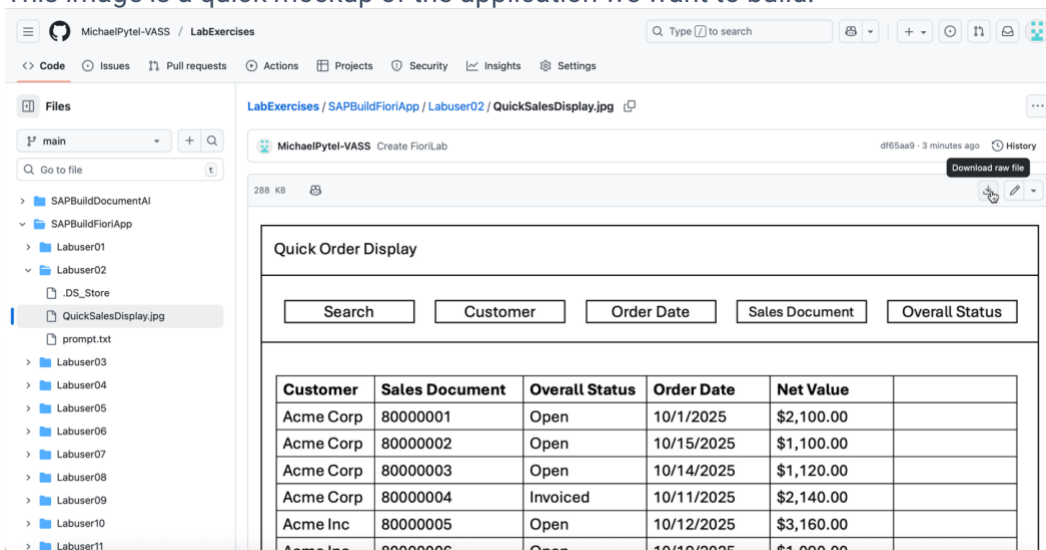
17. Click on your newly created markdown file
18. Navigate to Github (<https://github.com/MichaelPytel-VASS/LabExercises/tree/main/SAPBuildFioriApp>)
19. Select your Labuser## Folder
20. Copy the text from the prompt.txt into the prompt.md file in SAP Business Application Studio



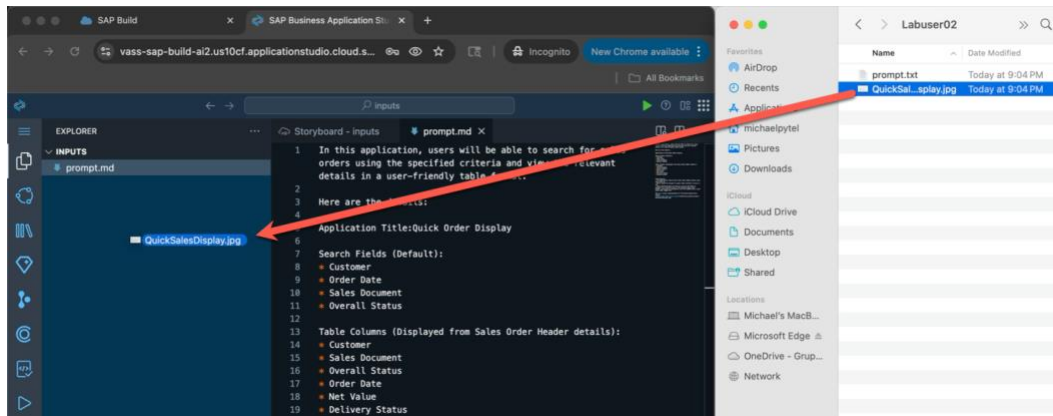
- 21.
22. Paste into prompts.md



- 23.
24. The file is saved automatically
25. Next, from Github, download the image in your Labuser## folder
26. This image is a quick mockup of the application we want to build.



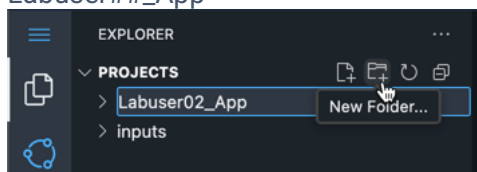
- 27.
28. Next, using your mouse, drag the image from a local folder to the Chrome Browser with SAP Business Application Studio. Drop the image on the folder 'inputs' we created above.



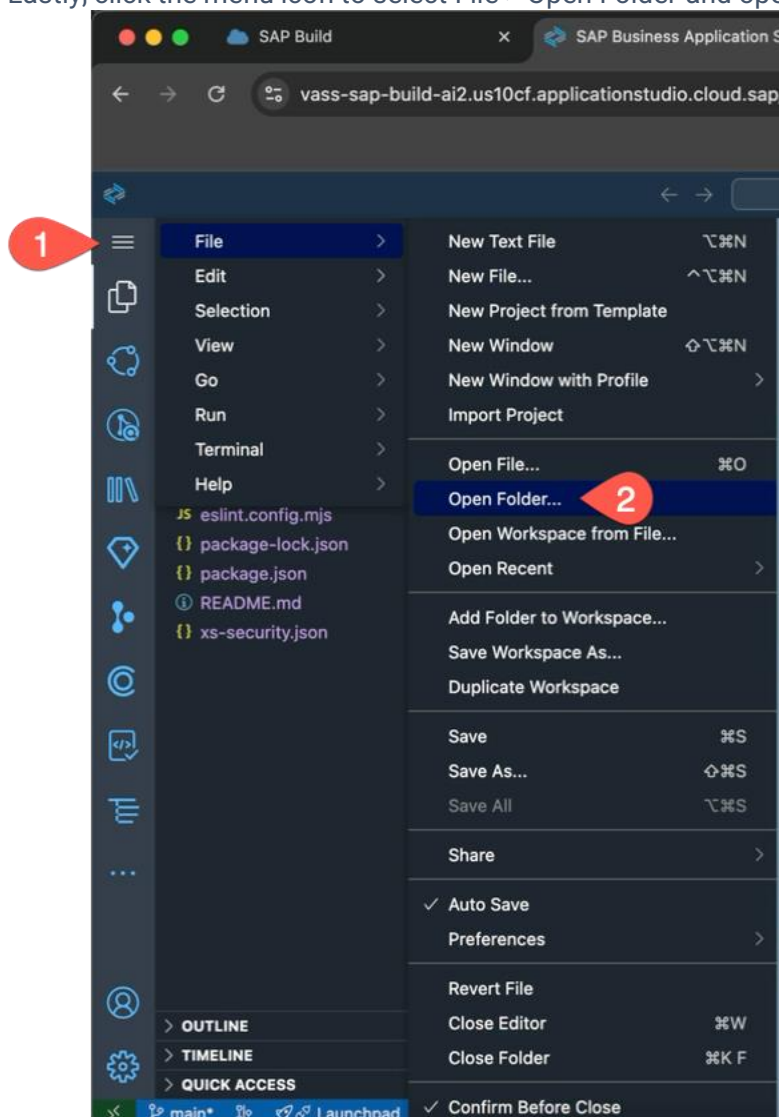
29.
30. The last line in your prompt.md file should read like this

31. `![[Sales Order Application Layout]](/home/user/projects/inputs/QuickSalesDisplay.jpg)`

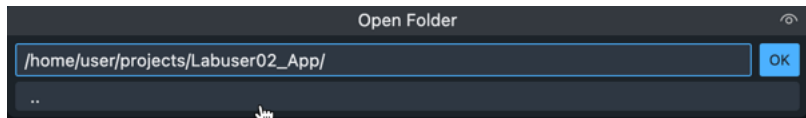
32. From the File Explorer, you should have an *inputs* folder with two files.
33. Next, we're going to create a new Project Folder
34. From the Projects Folder, click the New Folder button and create a new folder named Labuser##_App



35.
36. Lastly, click the menu icon to select File > Open Folder and open the newly created app folder.



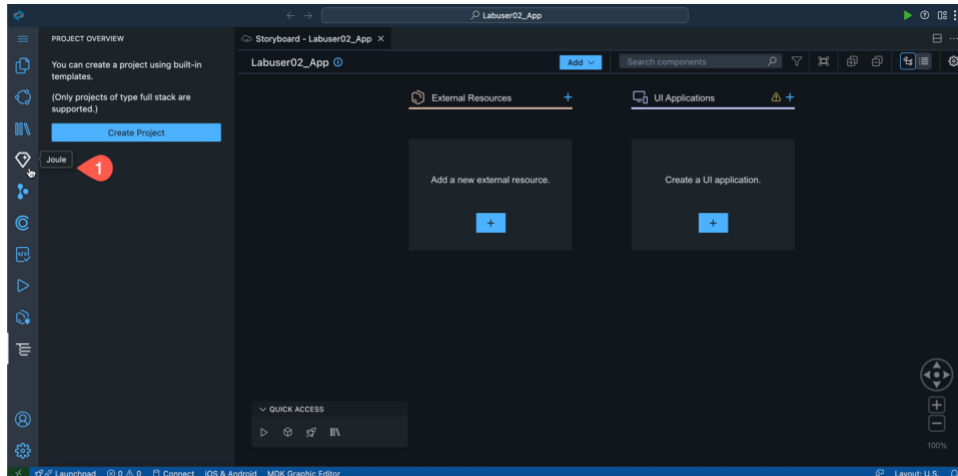
- 37.



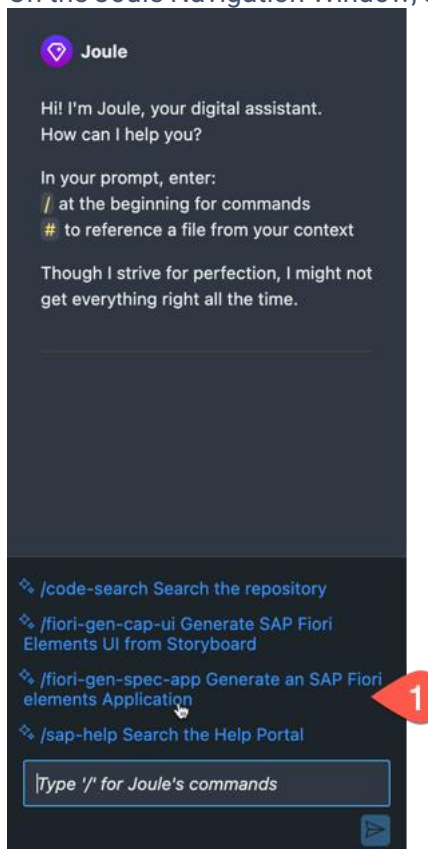
38. ..
39. Click OK

Prepare your prompt and image

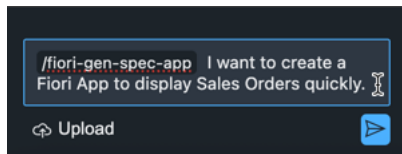
1. Within your empty folder create above.
2. Select the Joule Icon on the left.



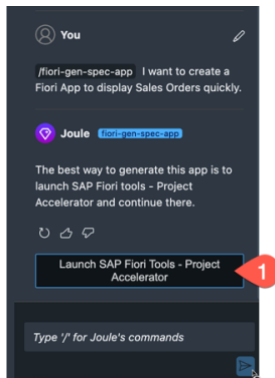
3. Launchpad
4. On the Joule Navigation Window, select /Fiori-gen-spec-app



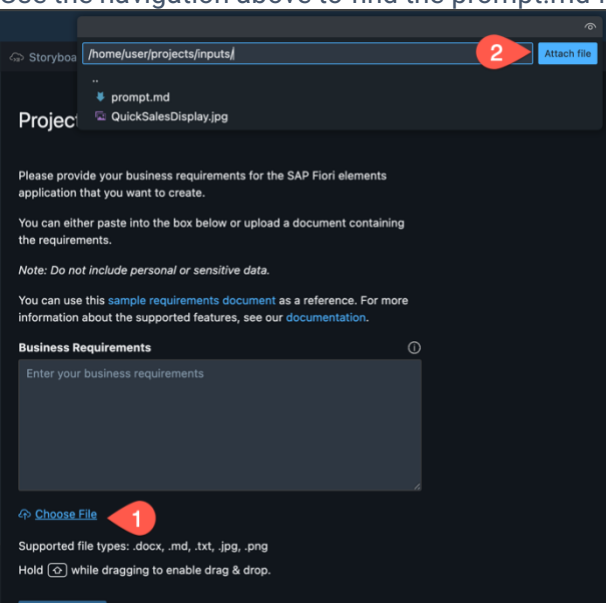
- 5.
6. Enter the prompt below
 - a. Text: `/fiori-gen-spec-app` I want to create a Fiori App to display Sales Orders quickly.



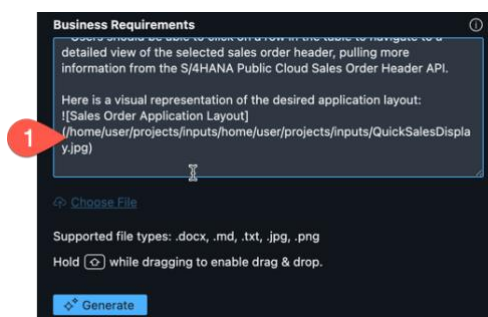
- b.
7. Send the command
 8. The select the button for 'Launch SAP Fiori Tools – Project Accelerator'



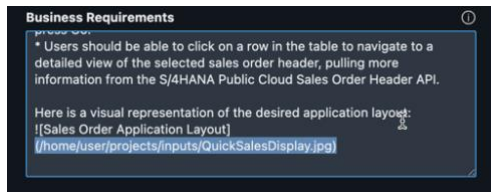
- 9.
10. On the next screen, remove the text from the Business Requirements box.
11. Instead, we will use our prompt.md file we created before.
12. Click *Choose File*
13. Use the navigation above to find the prompt.md file we created.



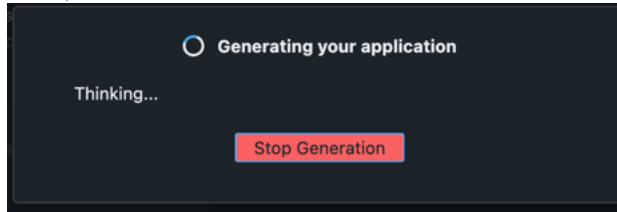
- 14.
15. The file and text will be added.
16. We've seen a bug where the file path is not correct when importing the markdown file. Scroll to the bottom of the requirements and correct the path to the image.
17. Before



- a.
18. After
 - a. (/home/user/projects/inputs/QuickSalesDisplay.jpg)



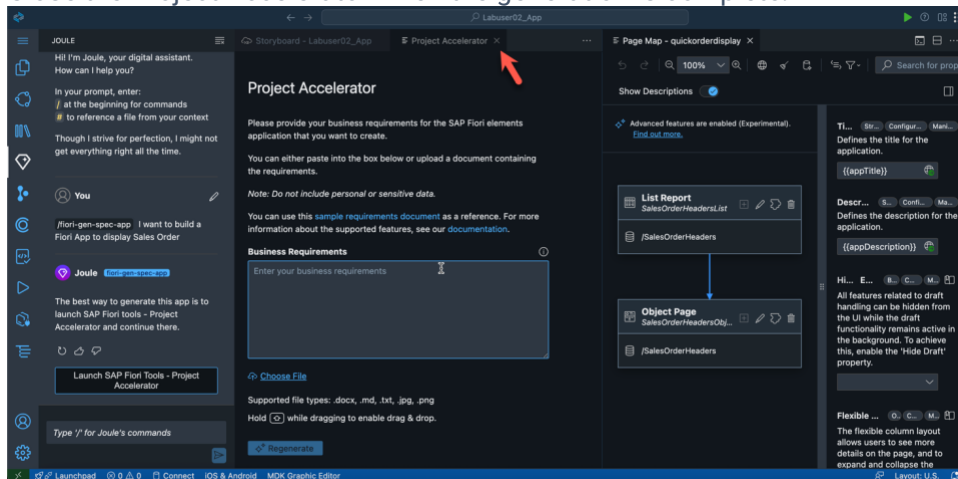
- b.
19. Next, we click the Generate button to allow Joule to create the app for us.



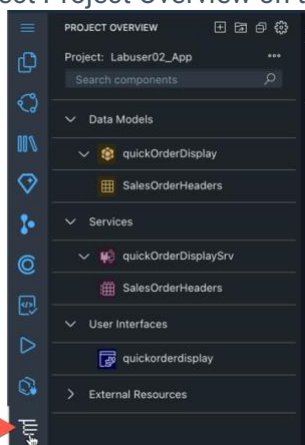
- 20.
21. This process can take 3-5 minutes.

Generate Test Data & Demo your App

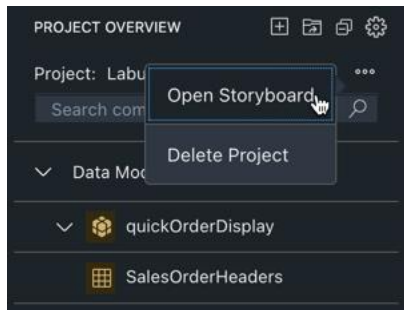
1. Close the Project Accelerator when the generation is complete.



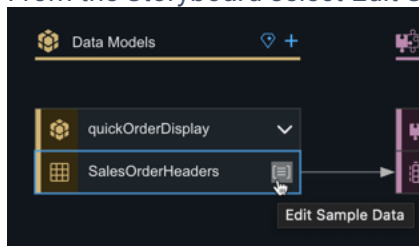
- 2.
3. Click the Storyboard Tab
4. Select Project Overview on the lower left



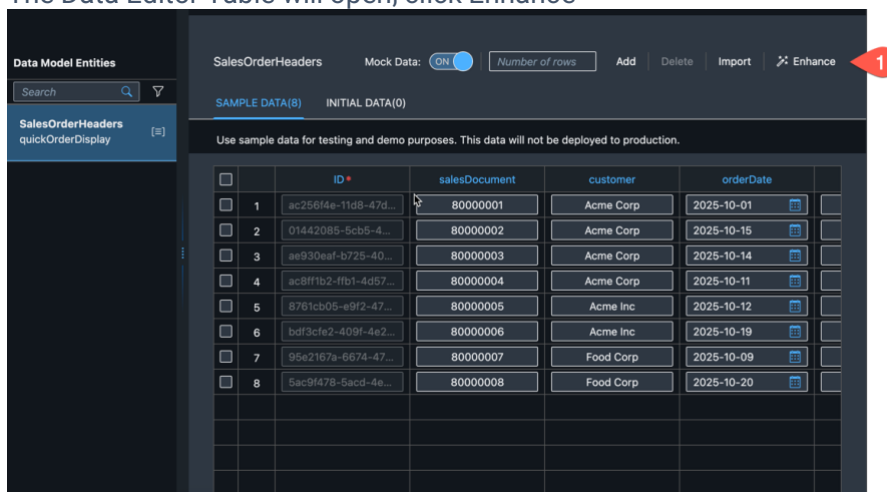
- 5.
6. From the Project Overview click the three dots and select Open Story Board



7. From the Storyboard select Edit Sample Data Button from the Data Model SalesOrderHeaders

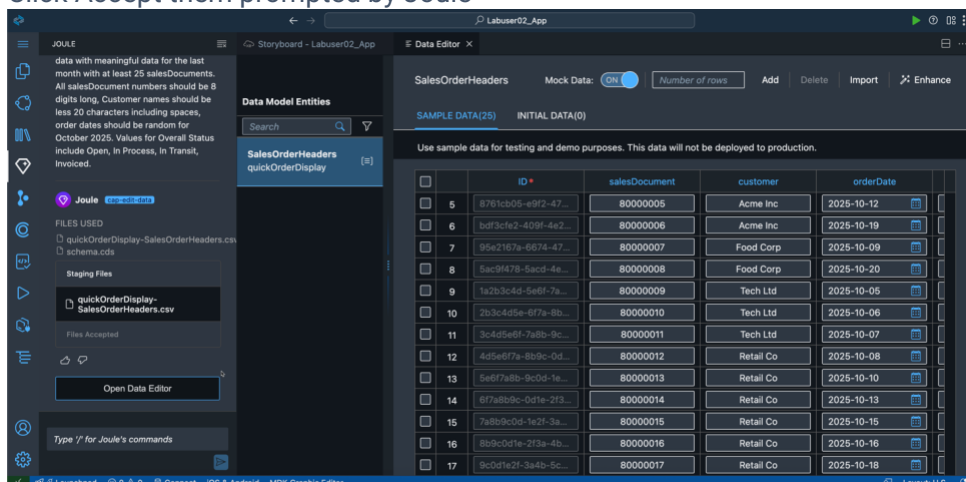


9. The Data Editor Table will open, click Enhance



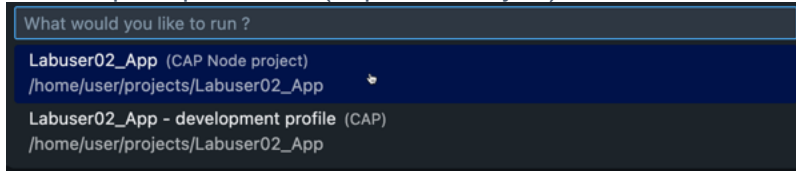
11. Edit the Joule prompt with the following.
- Text: `/cap-edit-data #test/data/quickOrderDisplay-SalesOrderHeaders.csv` Create sample data with meaningful data for the last month with at least 25 salesDocuments. All salesDocument numbers should be 8 digits long, Customer names should be less 20 characters including spaces, order dates should be random for October 2025. Values for Overall Status include Open, In Process, In Transit, Invoiced.

13. Click Accept them prompted by Joule

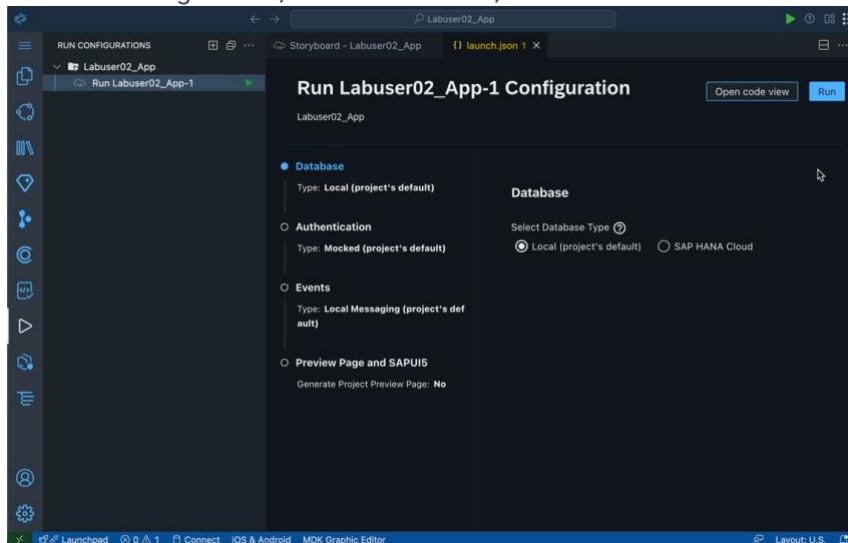


14. Confirm more data was added.
15. Close the Data Editor
16. Click the **Run Configuration** button on the left side
17. Click Create Configuration

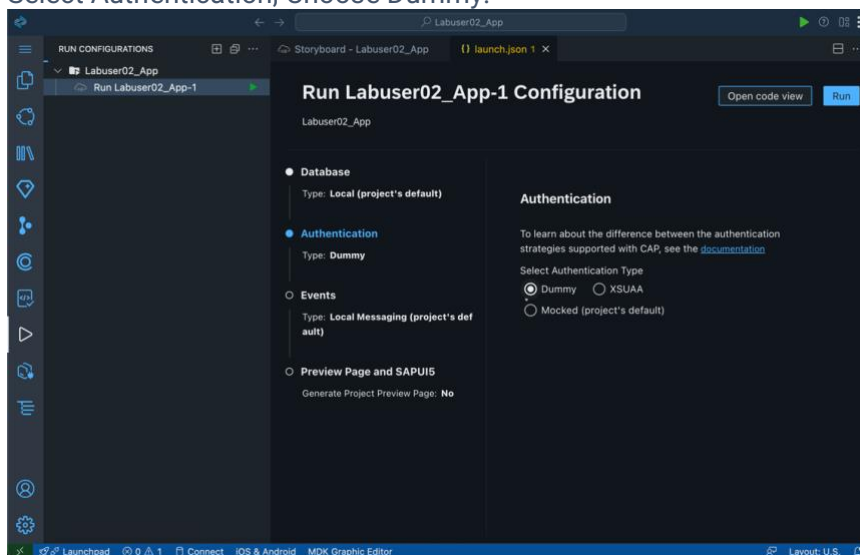
19. Select the first option presented. (Cap Node Project)



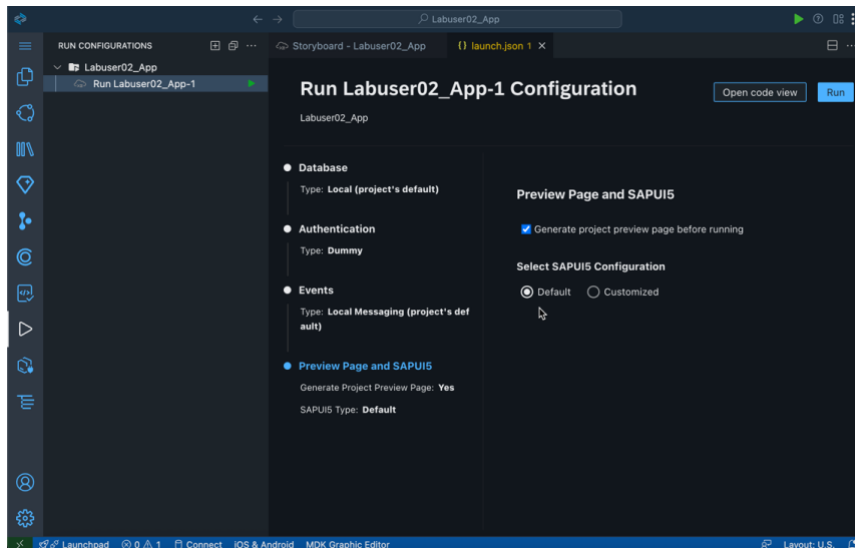
20. It will create a default name, click Enter to accept.
21. For Run Configuration, Select Database, leave the default.



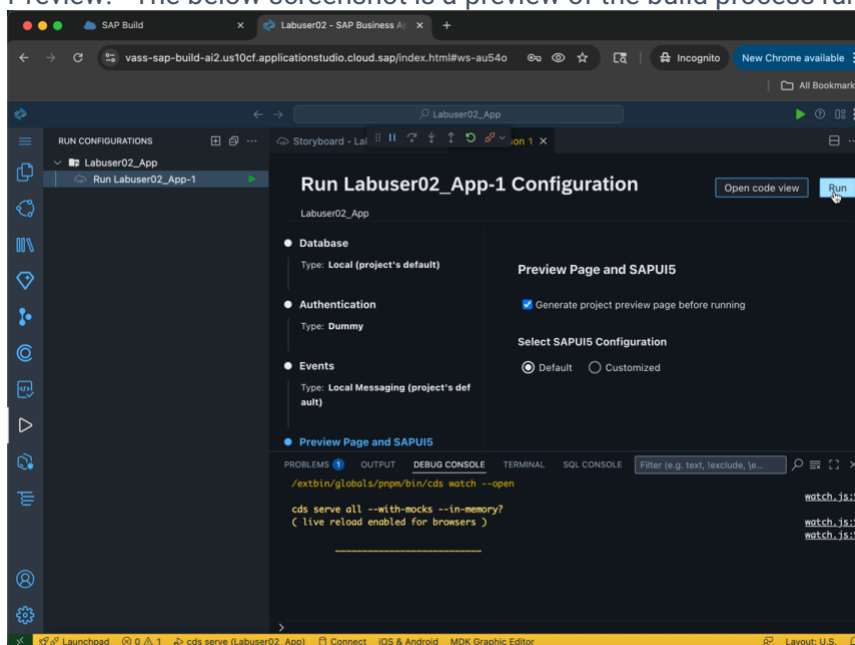
22. Launchpad
23. Select Authentication, Choose Dummy.



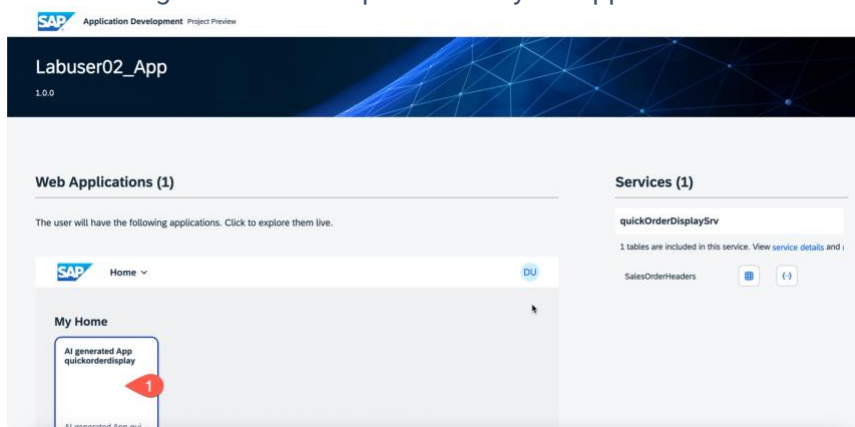
24. Launchpad
25. Leave Events as defaults
26. Select PreviewPage and SAPUI5, choose 'Generate project preview page before running'



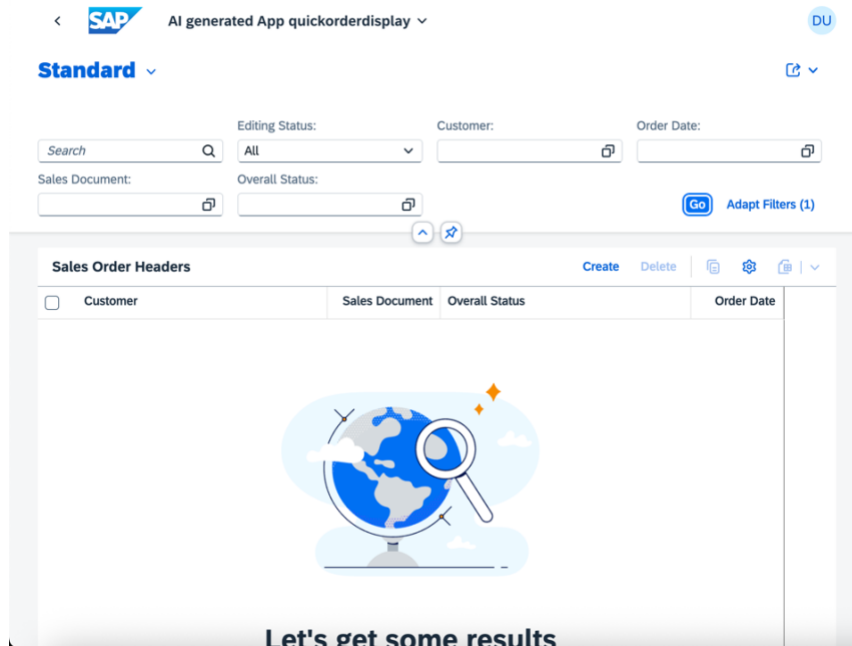
27. Click RUN
28. The first run can take 3-5 mins to process. A new browser tab will open with a Fiori App Preview. The below screenshot is a preview of the build process running.



30. The Fiori Page Preview will open. Select your App Tile



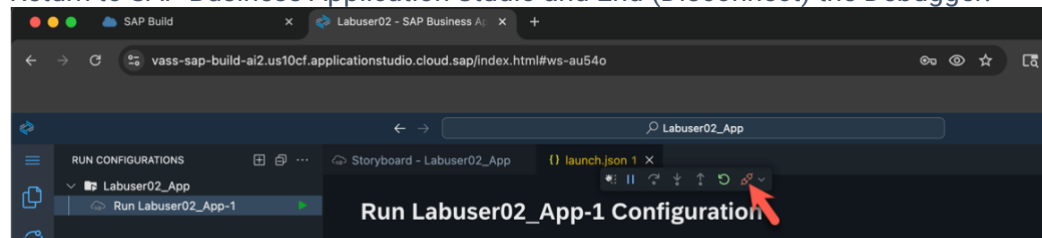
32. Click Go to display Records (test data stored locally)



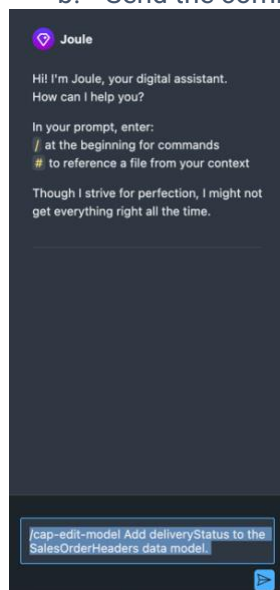
34. Let's get some results
35. Verify the App displays the mock data

Edit your App with Joule

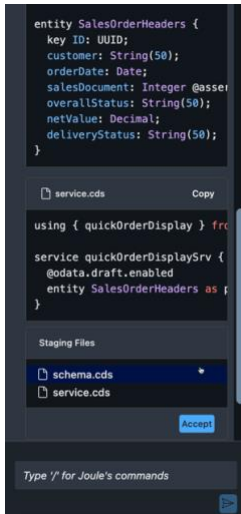
1. Once you're done with the app preview, close the browser tab.
2. Return to SAP Business Application Studio and End (Disconnect) the Debugger.



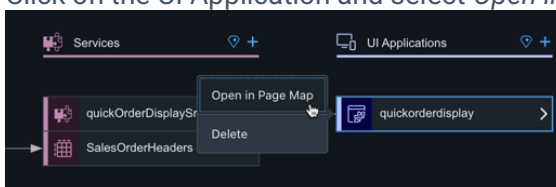
3. Run Labuser02_App-1 Configuration
4. Return to the Joule menu on the left
5. Enter in the following text
 - a. /cap-edit-model Add deliveryStatus to the SalesOrderHeaders data model.
 - b. Send the command to Joule



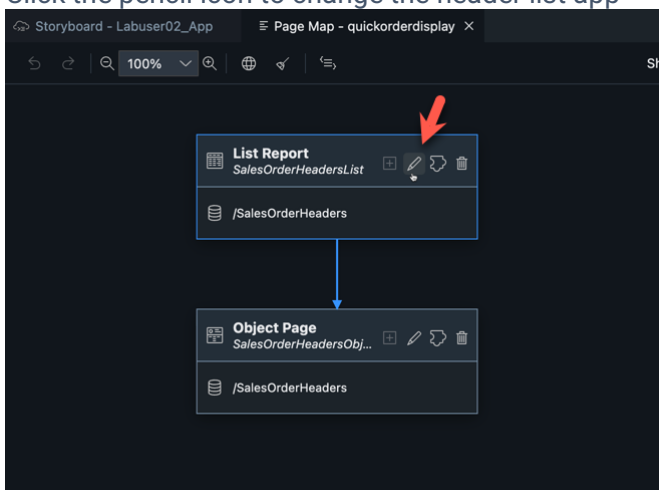
6. [Command entered in Joule]
7. Joule will recommend updates, click Accept



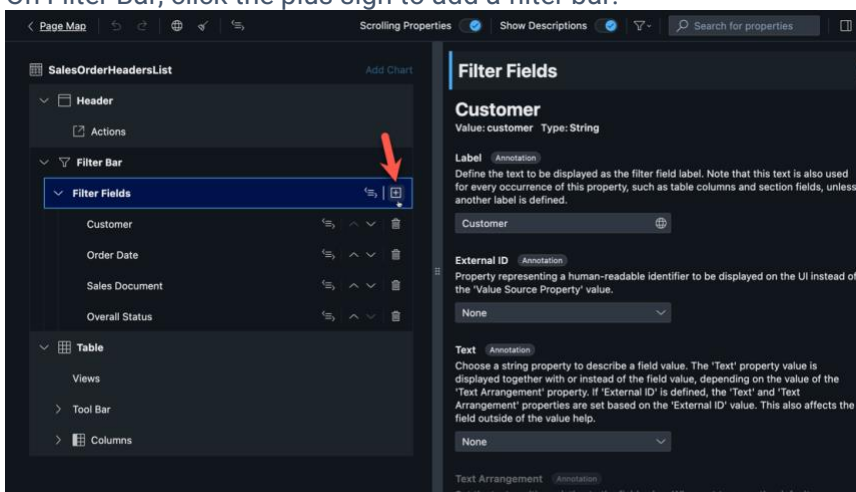
- 8.
9. Joule has updated the Data Model and Service with the new deliveryStatus field.
10. Lets add this field to the Fiori Application
11. Click on the UI Application and select *Open in Page Map*



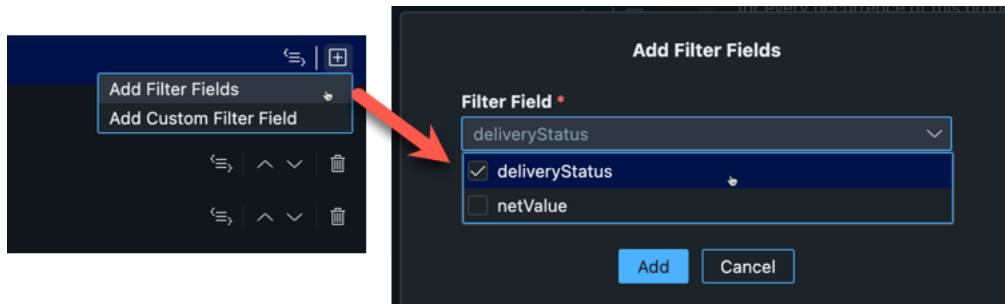
- 12.
13. Click the pencil icon to change the header list app



- 14.
15. On Filter Bar, click the plus sign to add a filter bar.

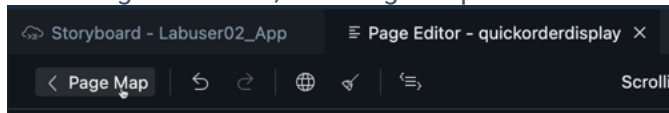


- 16.
17. Select *Add Filter Fields* then select *deliveryStatus*

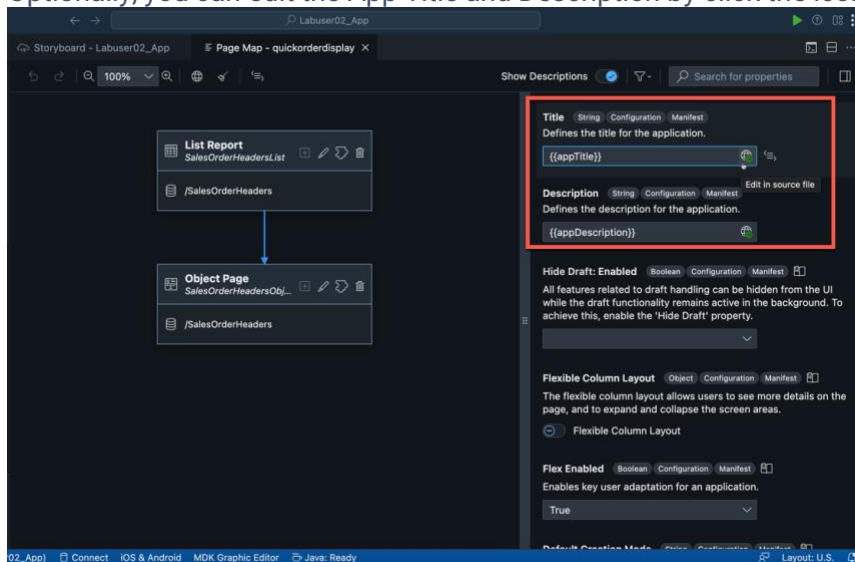


- 18.
19. Click Add

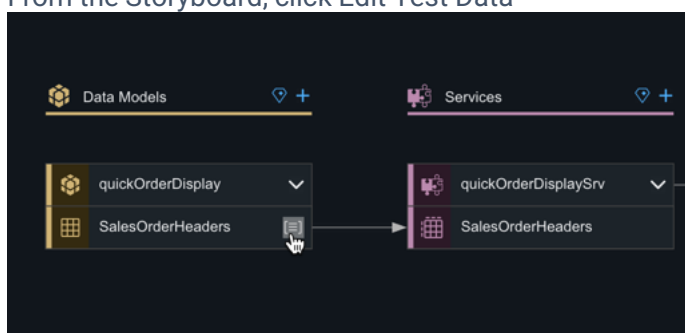
20. Repeat the Step under  to add the column to the table.
21. In the Page Editor tab, click Page Map to return to the prior screen.



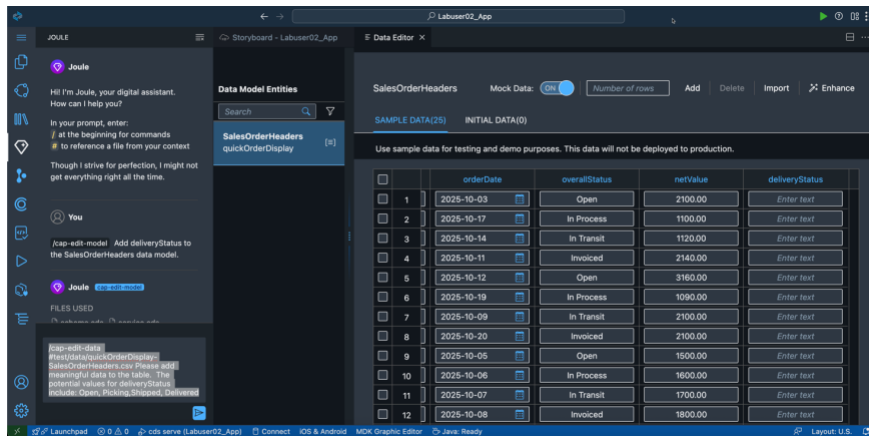
- 22.
23. Optionally, you can edit the App Title and Description by click the icon to edit.



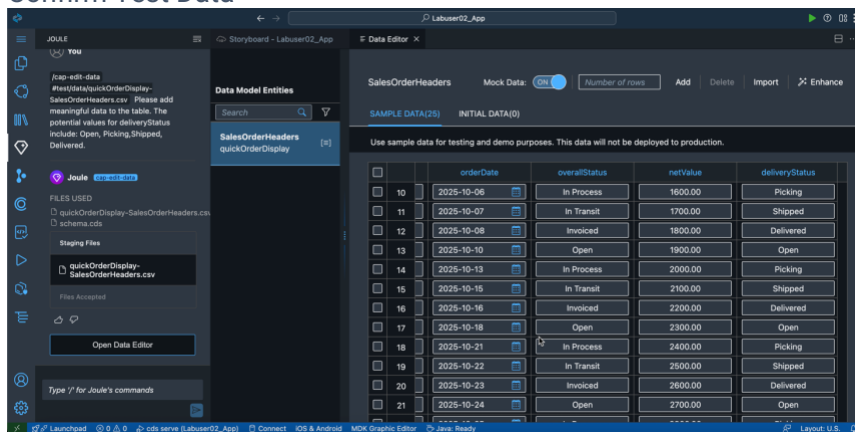
- 24.
25. Next, we will regenerate test data for the new field.
26. From the Storyboard, click Edit Test Data



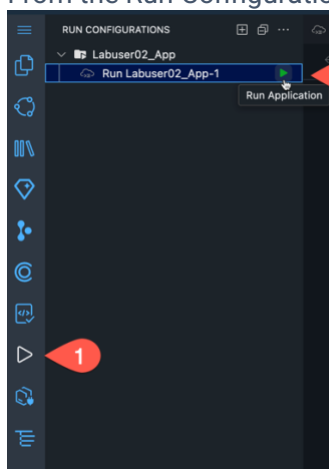
- 27.
28. Click the Enhance Button



29. Enter the following ttext prompt
- Text: `/cap-edit-data #test/data/quickOrderDisplay-SalesOrderHeaders.csv` Please add meaningful data to the table. The potential values for deliveryStatus include: Open, Picking,Shipped, Delivered.
 - Send the command
 - Accept updates from Joule
31. Confirm Test Data



32. Next, we will test our app again to confirm the field was added.
34. From the Run Configurations Menu, select the Run button on the config we modified above.



35.

36.

AI generated App quickorderdisplay

Standard

Editing Status: All Customer: Order Date: Sales Document: Overall Status:

Search deliveryStatus:

Go Adapt Filters (1)

Sales Order Headers (25)

Customer	Sales Document	Overall Status	Order Date	Net Value	deliveryStatus
Acme Corp	80,000,002	In Process	Oct 17, 2025	1,100	Picking
Retail Co	80,000,018	In Process	Oct 21, 2025	2,400	Picking
Tech Ltd	80,000,009	Open	Oct 5, 2025	1,500	Open
Retail Co	80,000,019	In Transit	Oct 22, 2025	2,500	Shipped
Tech Ltd	80,000,010	In Process	Oct 6, 2025	1,600	Picking
Retail Co	80,000,020	Invoiced	Oct 23, 2025	2,600	Delivered
Retail Co	80,000,021	Open	Oct 24, 2025	2,700	Open
Tech Ltd	80,000,011	In Transit	Oct 7, 2025	1,700	Shipped
Retail Co	80,000,022	In Process	Oct 25, 2025	2,800	Picking
Retail Co	80,000,012	Invoiced	Oct 8, 2025	1,800	Delivered
Food Corp	80,000,008	Invoiced	Oct 20, 2025	2,100	Delivered

Thank you for completing our Hands-On Lab! Please email if you have any questions!