

SAP Fiori UX Final Assignment – Student Progress App

The Story

Dr. Williams is a business professor who teaches SAP sales and distribution processes in his ERP course. As a hands-on exercise, his students are expected to perform transactions required to complete an order-to-cash cycle. He has 100 students a semester and doesn't have any easy way to check the progress of his students work in the SAP system.

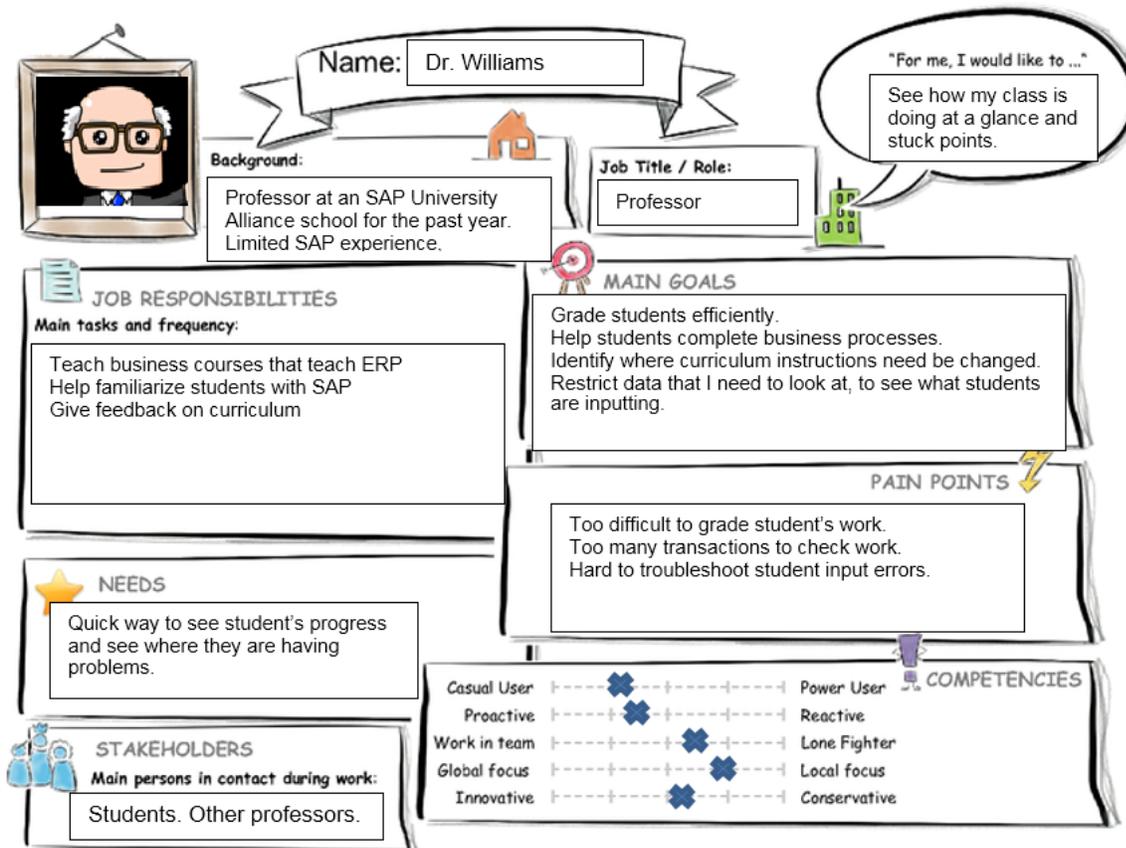
The Fiori app would be able to show the user which transactions his users have run, which documents they created, and values for specific input fields in each transaction as needed. By viewing this, the instructor can see how far along his students are.

This app is targeted at the education and training industry. For example, SAP University Alliances has curricula where students perform specific transactions. This app would help professors in assessing students and easily view student progress.

The app would be able to search on user ranges and would give the status report of each transaction required. A drill down would be available for each transaction to show information details. This would make it much easier than having to go to each specific view transaction. Also, many times, the professors don't have enough SAP expertise to navigate through the SAP system.

For context, here is a sample list of milestone tasks that might be required in a class: Create Customer, Create Sales Order, Post Goods Issue, Create Invoice, and Post Receipt of Payment. The idea is to immediately see how many milestone processes have been completed by a user, then to be able to drill down further to see details of each transaction and object created. I believe this app would be useful for anyone teaching or training how to perform SAP processes.

The Persona

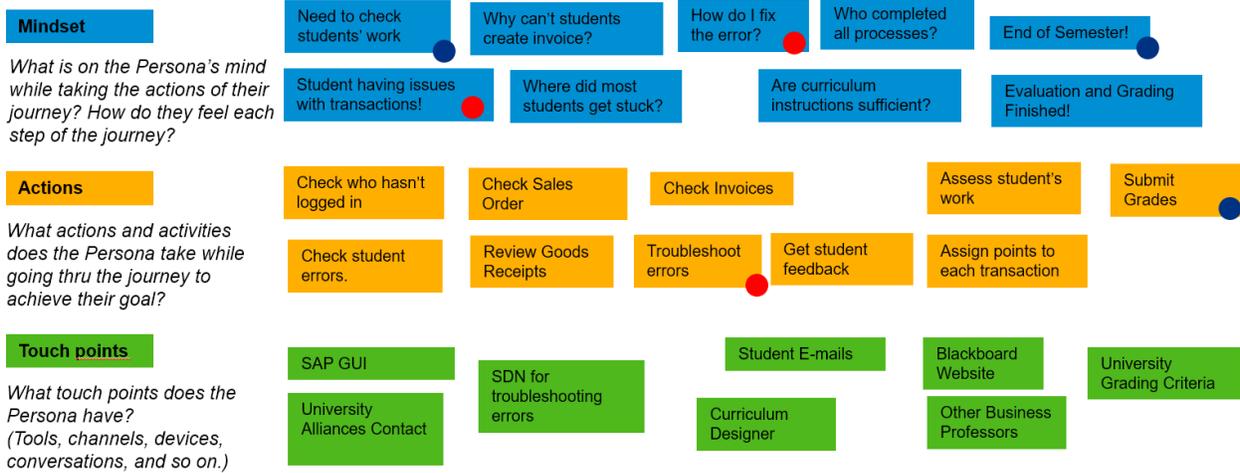


The key takeaway from the Persona is that the instructor wants to be able see how far along his students are without having to go to each transaction and search for the student's documents/objects. A Fiori app could make this simple.

User Experience Journey

Current User Experience Journey

Duration of the Journey: 20 min



With the current journey, the user has to perform several transactions to check the student's work and progress. For troubleshooting errors and issues, a Fiori app would display only the key data fields that might be incorrect, rather than the numerous fields in a standard SAP GUI transaction.

Mockup

Here is the initial screen with user id's on the left indicating percentage of tasks completed. This allows the instructor to view the progress of his students quickly. In the detail view there are tab buttons for each transaction that is required in their assignment. The color indicates the status of the task and the counter tells the instructor how many objects were created for each task. When clicking on the tab, the documents/objects created by the user is displayed. The instructor can drill down further on each object by clicking ">" if they want to check further details.

The screenshot shows the SAP Student Progress and Process Details interface. The left sidebar displays a list of students with their IDs and completion percentages. The main area shows the details for John Smith, including a progress bar at 40% and icons for various transaction types with their respective counts.

Student ID	Student Name	Progress
STUDENT-001	John Smith	40%
STUDENT-002	Mary Jones	60%
STUDENT-003	Chad Johnson	100%
STUDENT-004	Mark Wilson	20%
STUDENT-005	Kim Lee	100%

Transaction Type	Count
Customer	4
Sales Order	1
Post Goods	0
Invoice	0
Payment	0

Customer	Description	Company Code	Sales Org	DistChannel
90000201	Customer A	EU10	EMEA	Sales >
90000213	Customer B	US10	USA	Retail >
90000183	Customer C	US20	USA	Retail >
90000623	Customer D	US30	USA	Wholesale >

App Prototype Screens

For my prototype build, I used the sales order app as a starting point. The two components I modified were the Master View and the Details View to fit the app requirements.

The first component I changed was the Master View. We didn't have authorizations to change the data model so I ended up using Customer ID instead of User ID for the filter. The idea is that the student will create a CustomerID that matches with their user id, so the instructor can easily find the student's sales order. I edited the Master.view.xml to display CustomerID, then edited the Master.controller.js, so the instructor could search by CustomerID/User ID. The value next to the User ID is supposed to be the percentage of tasks completed. For example STUDENT-001 shows 2 out of 5 tasks are green, or 40%. I edited the mock data for this data to appear.

The screenshot shows a web application interface with a browser window at the top. The browser address bar contains a URL starting with 'https://webide-s0000703635trial.dispatcher.hanatrial.ondemand.com/resources/~c11588532fde86dabcf3ff898b8f'. Below the browser, there is a navigation bar with device size options: Large (100% x 100%), Medium (800 x 600), Small (320 x 480), and Custom (480 x 800). There are also buttons for Refresh, Orientation, and English.

The main content area is split into two panels. The left panel, titled 'Student Progress', contains a table with a search bar 'Search by Customer ID' and a refresh icon. The table lists student IDs and their progress percentages:

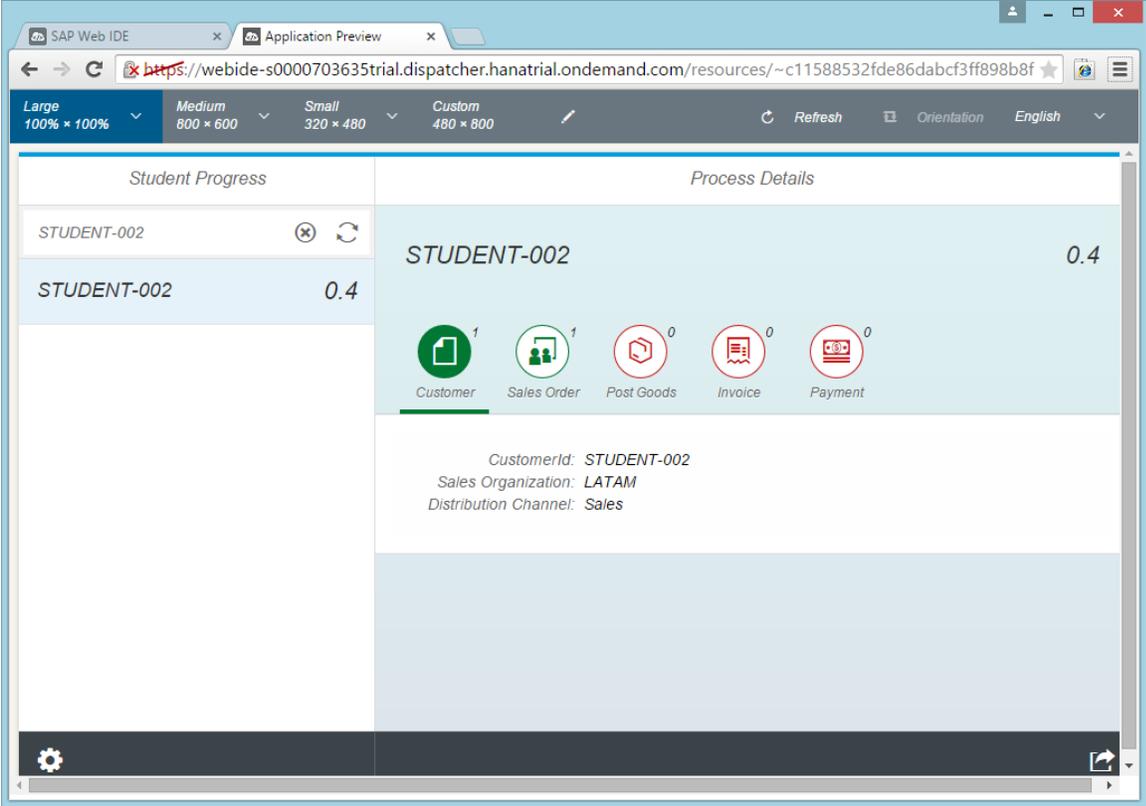
Student ID	Progress
STUDENT-001	0.4
STUDENT-002	0.4
STUDENT-003	0.8
STUDENT-003	0.8
STUDENT-004	1
STUDENT-005	0

The right panel, titled 'Process Details', shows details for 'STUDENT-001' with a progress value of '0.4'. Below the title, there are five icons representing different process steps: Customer (1), Sales Order (1), Post Goods (0), Invoice (0), and Payment (0). Below these icons, the following details are listed:

- CustomerId: STUDENT-001
- Sales Organization: EMEA
- Distribution Channel: Retail

At the bottom left of the application, there is a gear icon for settings, and at the bottom right, there is a share icon.

For the Details View component, I added tab icons to represent each of the assignment tasks. The counter represents the number of objects created. The color of the icon represents the status of the task. I modified the Customer and Sales Order Icon Filters to show relevant data. Here's a screen shot showing the search function working.



So, as you can see with the prototype, this Fiori app meets the goals of the end user. He can easily assess his students' progress and see where they are stuck.