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Running abap2UI5 backend in browser

![Lars Hvam Petersen] **Lars Hvam Petersen**
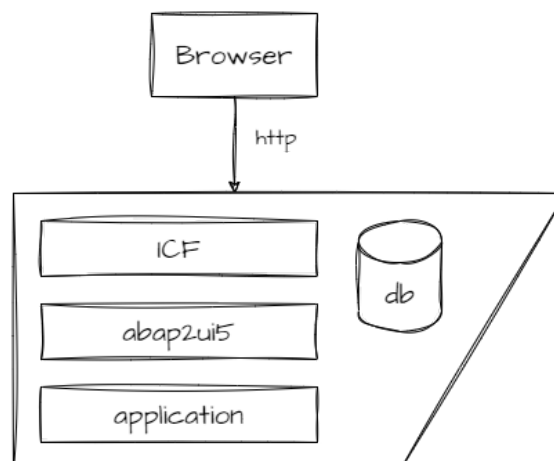Senior SAP/ABAP Consultant at Heliconia Labs

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April 2, 2024

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abap2UI5 by Lars Kaldewey et al. allows to easily write ui5 applications with backend ABAP code.
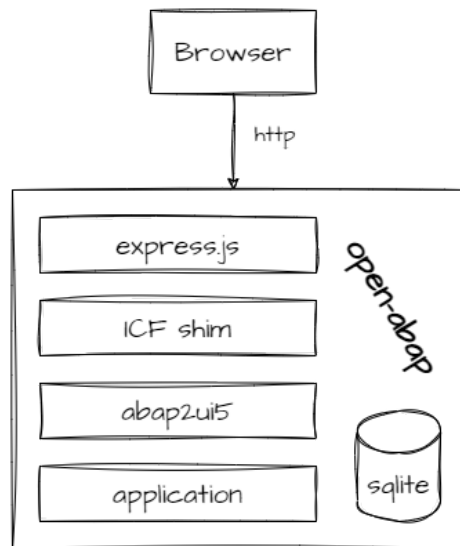
Classic Setup

The application runs on a normal stack, exposing data to the browser using the Internet Communication Framework(ICF),

This all works, but require at **least 16gb of memory** to run a somewhat simple web application.
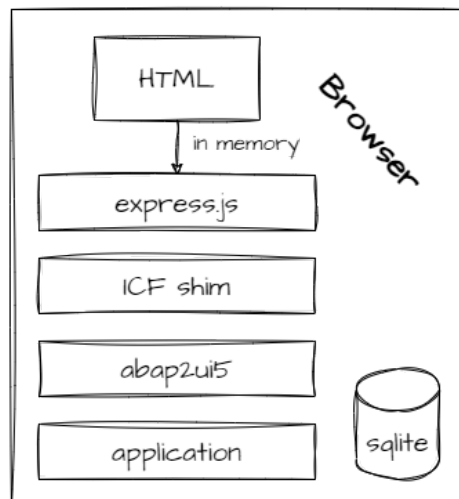
Local Setup

The abap2UI5 framework has been unit tested to work with **open-abap**, and along **with some shims**, its possible to run the transpile the ABAP code to JavaScript and run it locally with **Node.js**,

Browser Setup

All of code in the Local Setup runs as JavaScript, and the browser runs javascript, so its possible to **webpack** everything together plus run the database in the browser. **Monkey patch** fetch(), and

Voila,

https://abap2ui5.github.io/web-abap2ui5-samples/?app_start=z2ui5_cl_demo_app_000

The sample applications now runs without a backend, only requires static pages to be served from the webserver!

What does it mean?

The local setup can be used for fast continuous integration, plus local development of ABAP based ui5 applications standalone in vscode.

The browser setup allows for preview deployments, deploy every pull request as static pages, allowing reviewers and users to test(some) of the application before it hits real environments!

Try it out: https://abap2ui5.github.io/web-abap2ui5-samples/?app_start=z2ui5_cl_demo_app_000

Source code:

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