Flows for APEX v22.2
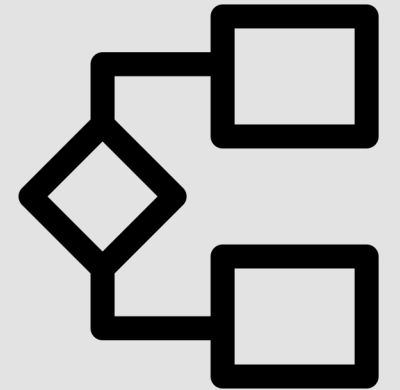
An Oracle APEX extension for building and running BPMN-based apps

Niels de Bruijn

- Twitter: @nielsdb
- Personal Blog: https://nielsdebr.blogspot.com
- Initiator of Flows for APEX

Business Unit Manager Low-Code @ MT AG

- Leading a group of APEX experts
- We share our passion for Oracle APEX through https://apex.mt-ag.com
- Performing low-code evaluations, see https://www.mt-ag.com/lowcode

Director Development Community @ DOAG e.V.

- Leading a group of volunteers
- Initiator and conference chair for the conference APEX Connect

ORACLE
ACE Director

What is Flows for APEX 22.2?
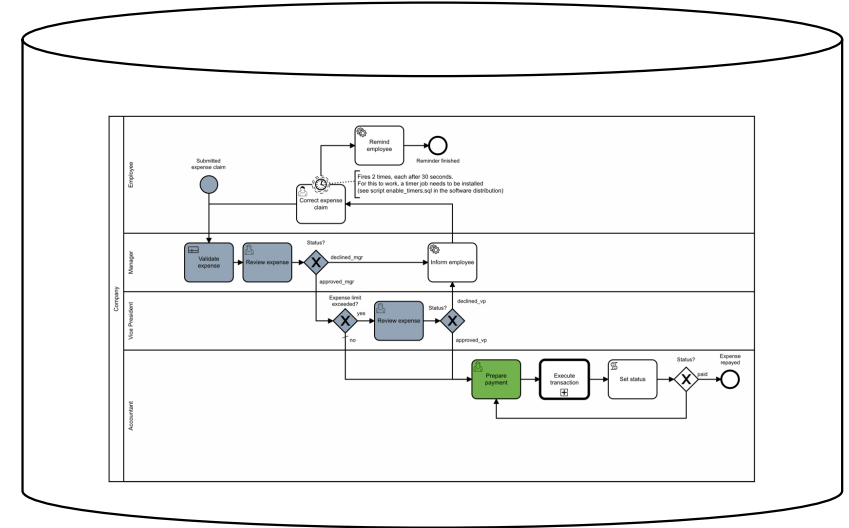
An open-source BPMN 2.0 based process flow engine that runs in Oracle DB 19c+

- Ships with an APEX app to model and manage business processes (Oracle APEX 20.1+)

- Lets you integrate processes with your own custom APEX apps using plug-ins
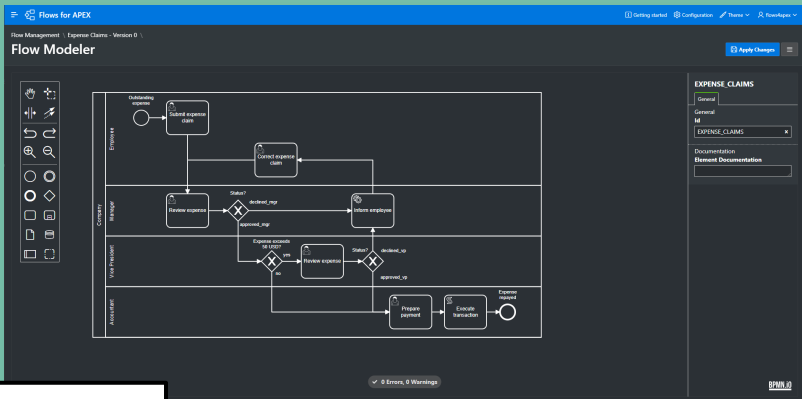
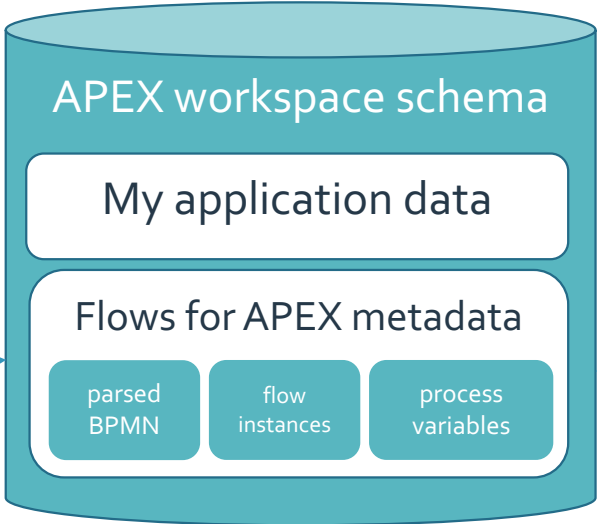- Main website: flowsforapex.org

Some stats:

- Introduced in 2020
- > 3.700 downloads
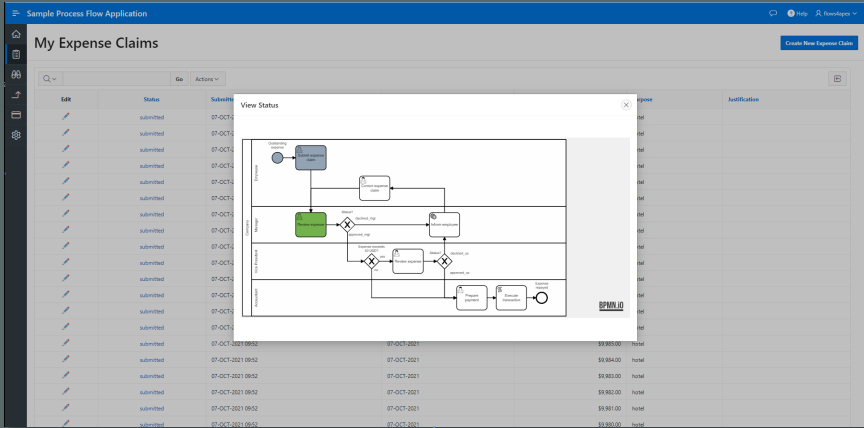- > 500 subscribers for the newsletter

How it all works together

Flows for APEX app

My custom APEX app

BPMN (XML)

APEX workspace schema

My application data

Flows for APEX metadata

parsed BPMN

flow instances

process variables

Integrate using plug-ins

or by using the PL/SQL API

How to get started?
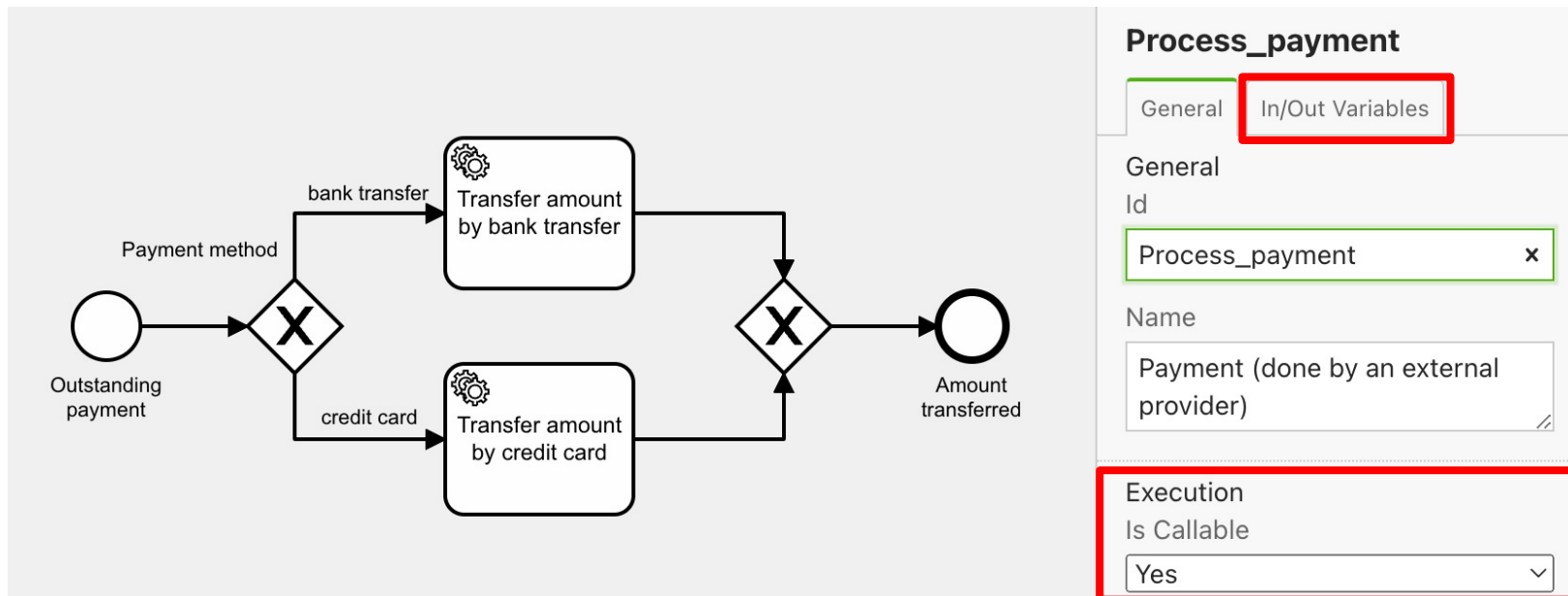

Visit our website **flowsforapex.org**
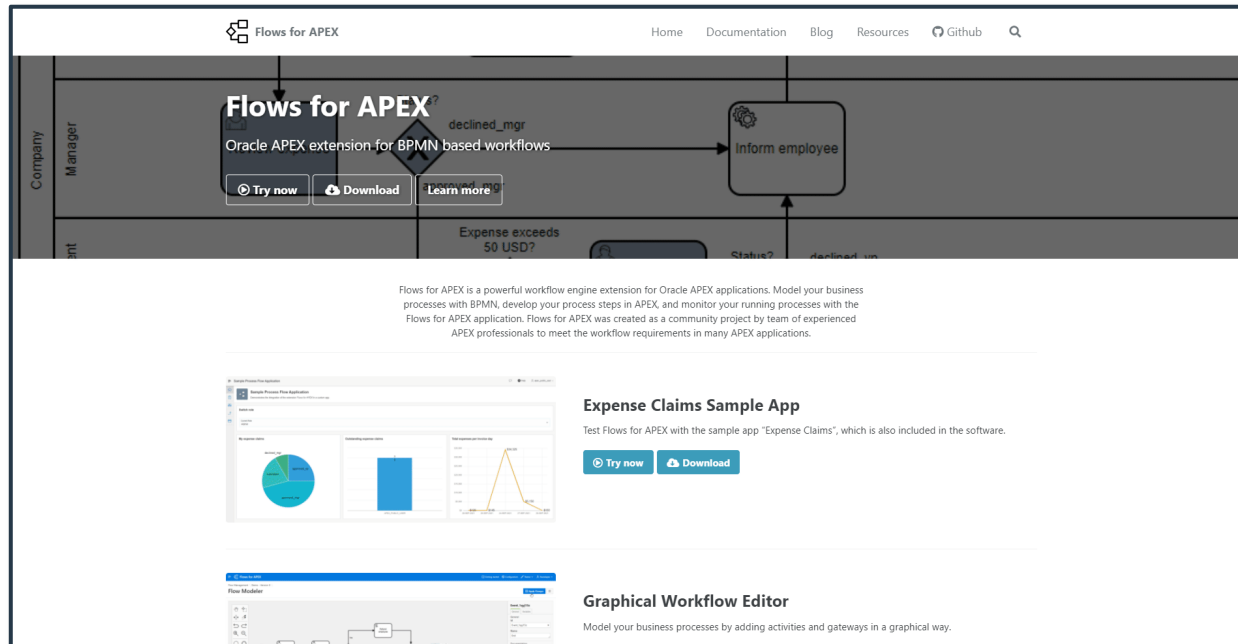
- Subscribe our newsletter

- Download and install the software
  - For a start, analyze our sample app "Expense Claims"

- Walk through the tutorials
  - See tutorial on start page of flowsforapex.org
  - See tutorials that get preinstalled

- Watch our videos: youtube.com/flowsforapex

- Read the documentation
  - incl. BPMN, concepts and PL/SQL API
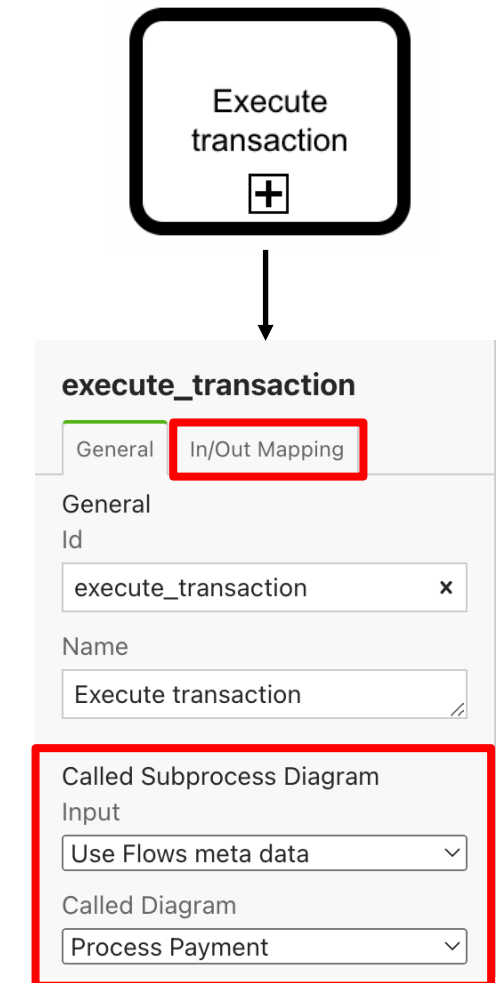
New in Flows for APEX 22.2

BPMN Call Activities

- Allows a process defined in one process to call another process defined in another diagram (n-level nesting)
- Allows reusability and decomposition of diagrams

Step 2: Use Call Activity Element to call the diagram

Step 1: Make a flow diagram callable and define its in/out vars

Gateway Routing Expressions

- Determine for each path after a gateway if it is to be taken or not

- Use either a PL/SQL expression or a function body (reference variables using :F4A$myvar)

- Using a process variable "<gateway_id>:route" stays supported (takes precedence if available)
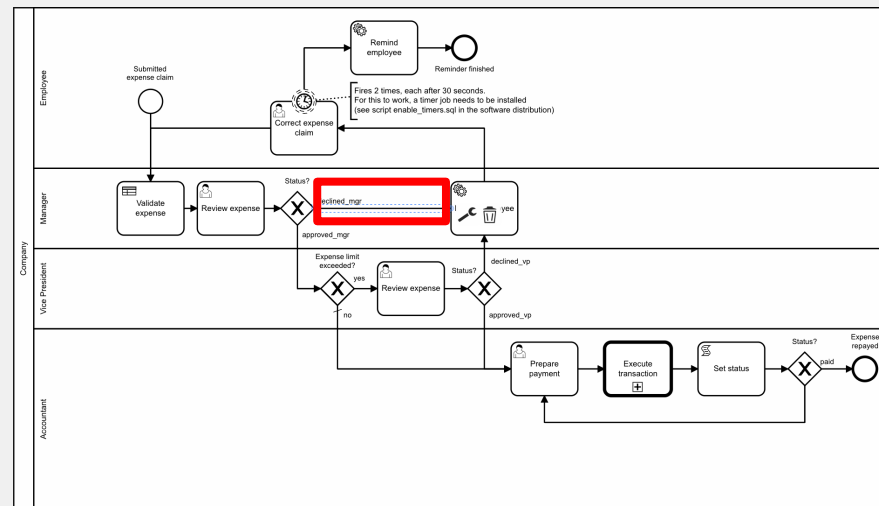
New in Flows for APEX 22.2

# Integration with the Approval Task in APEX 22.1+

- A user task in Flows for APEX 22.2 will give you the option to use the Approval Task in Oracle APEX 22.1+ for an approval as part of a wider BPMN process

- In your custom app, you can use a new process plug-in "Return to Flows for APEX", no coding required for the integration
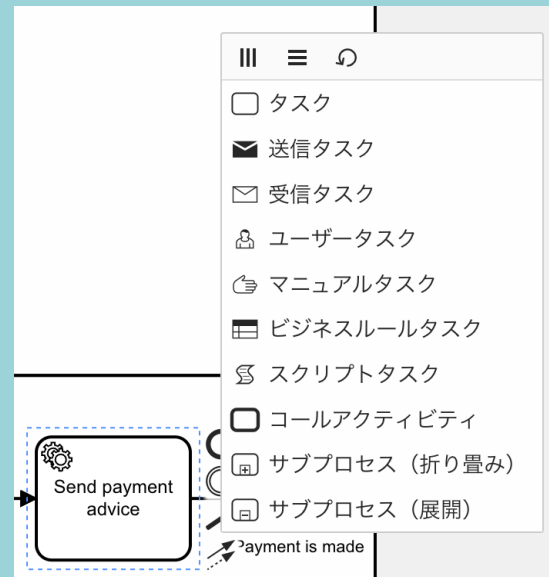
New in Flows for APEX 22.2
Additional Translations

Besides English and French, the app now supports:
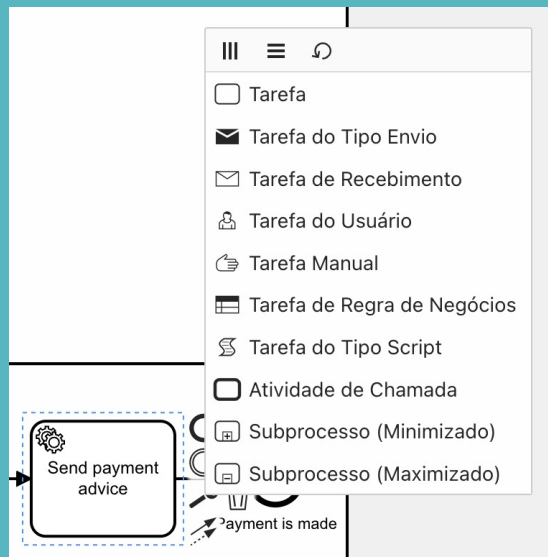
**PORTUGUESE**

JAPANESE
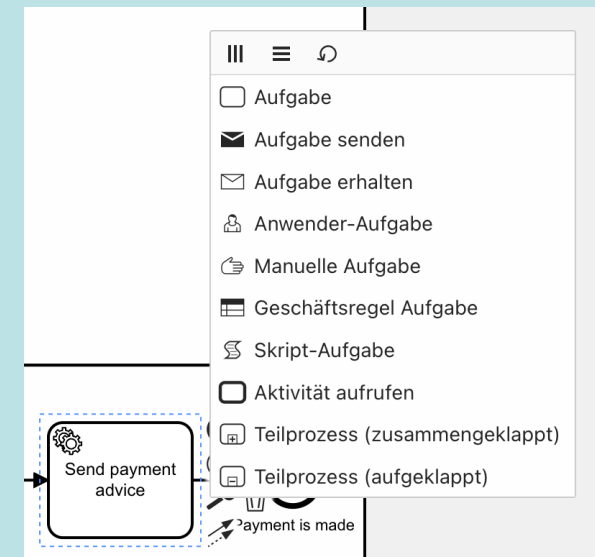
GERMAN

Smaller Features

- APEX session creation for each step

- Process vars are now case-insensitive

- Enhanced sample app "Expense Claims"
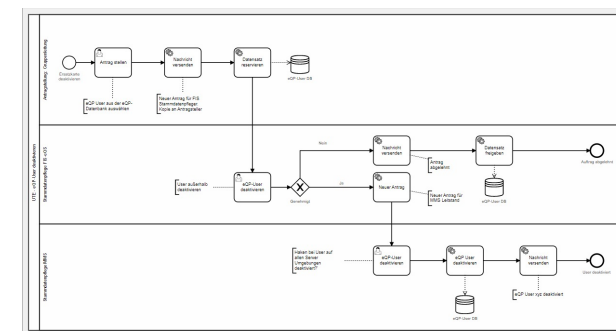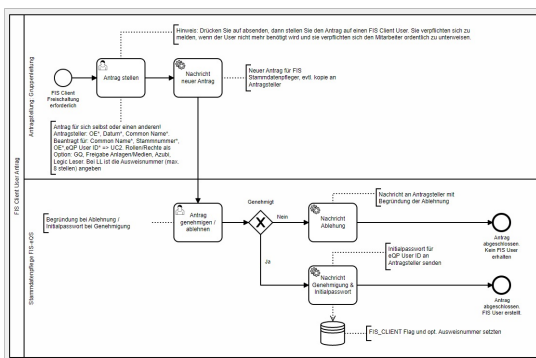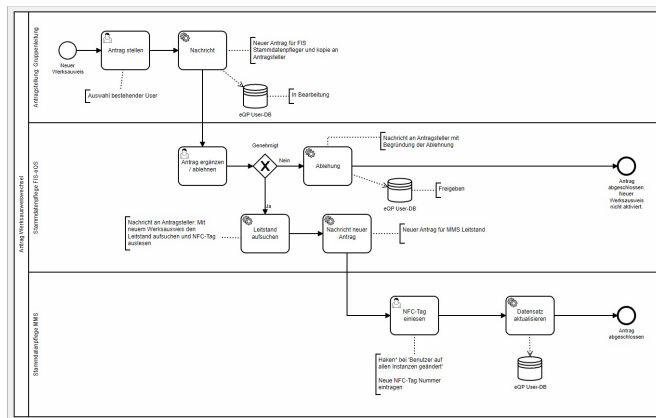
Some internal changes:
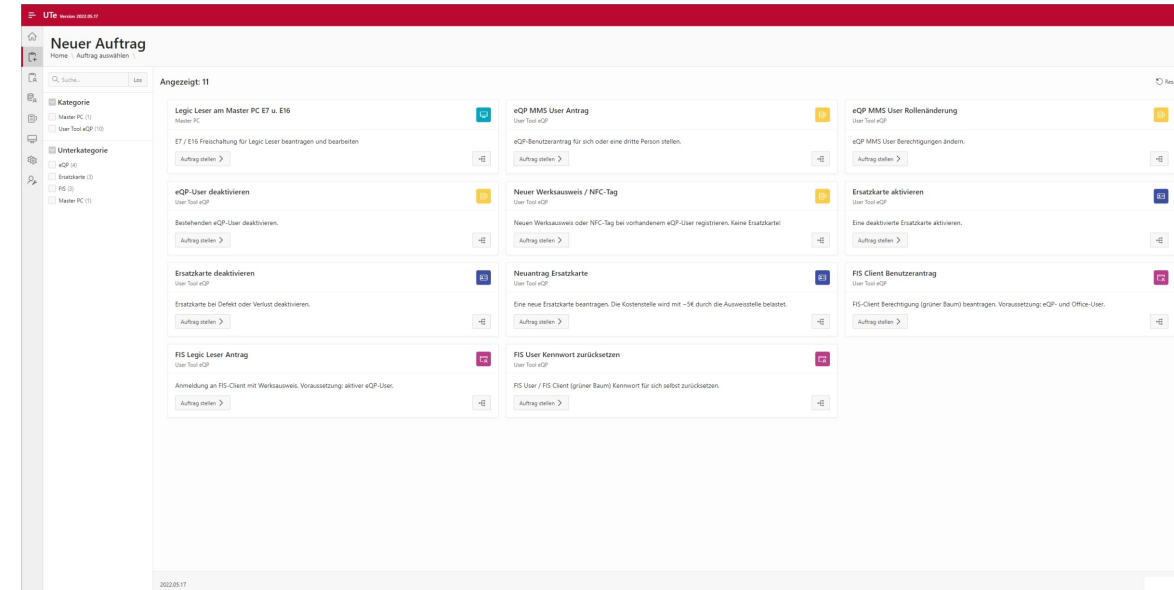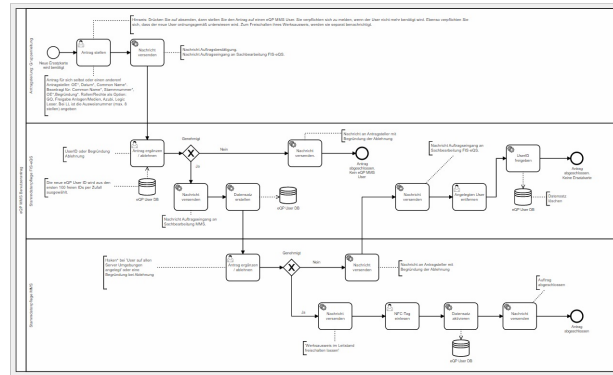
- Translation framework established

- Diagram attributes are now stored in JSON

- Utilizing utPLSQL for internal testing

Who is using this?
Ärztliche Verrechnungsstelle Büdingen - Installment Request
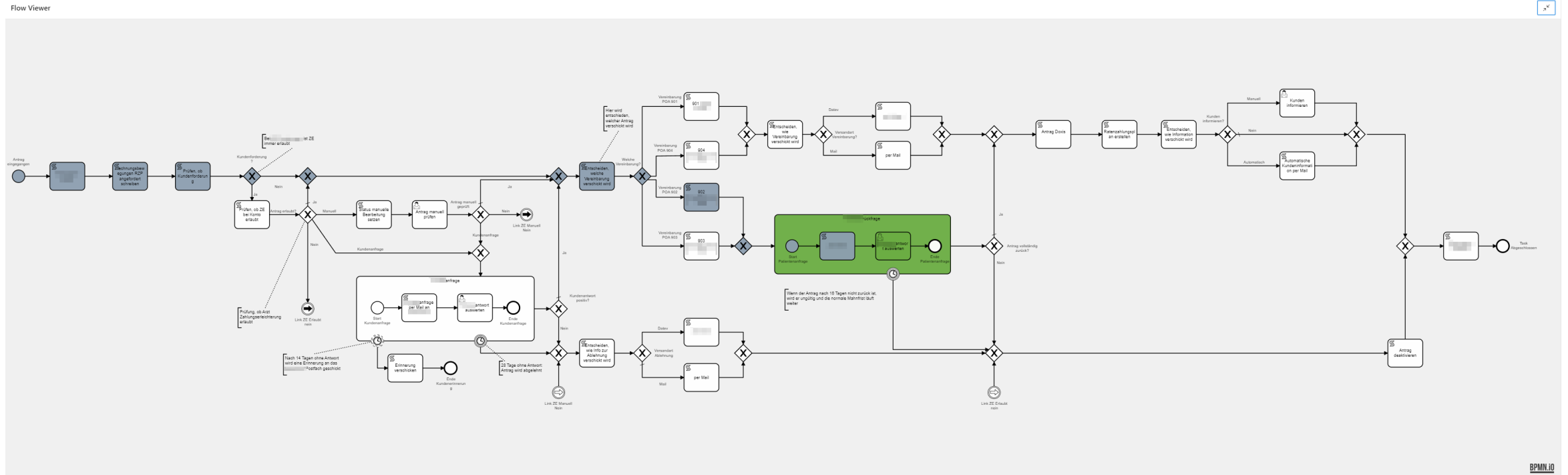
Who is using this?
Automotive - User Management For Production Related Systems
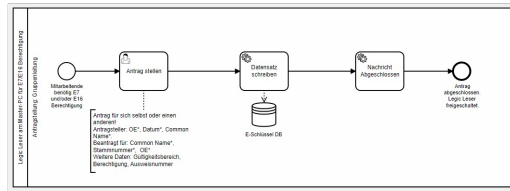
Who is using this?
MT AG - Procurement Process

MEET THE CORE TEAM

Richard Allen

Moritz Klein

Dennis Amthor

Louis Moreaux

Niels de Bruijn

A special thanks goes out to Jörg Doppelreiter and Jon Barwell for their contributions

Upcoming sessions & seminars to attend

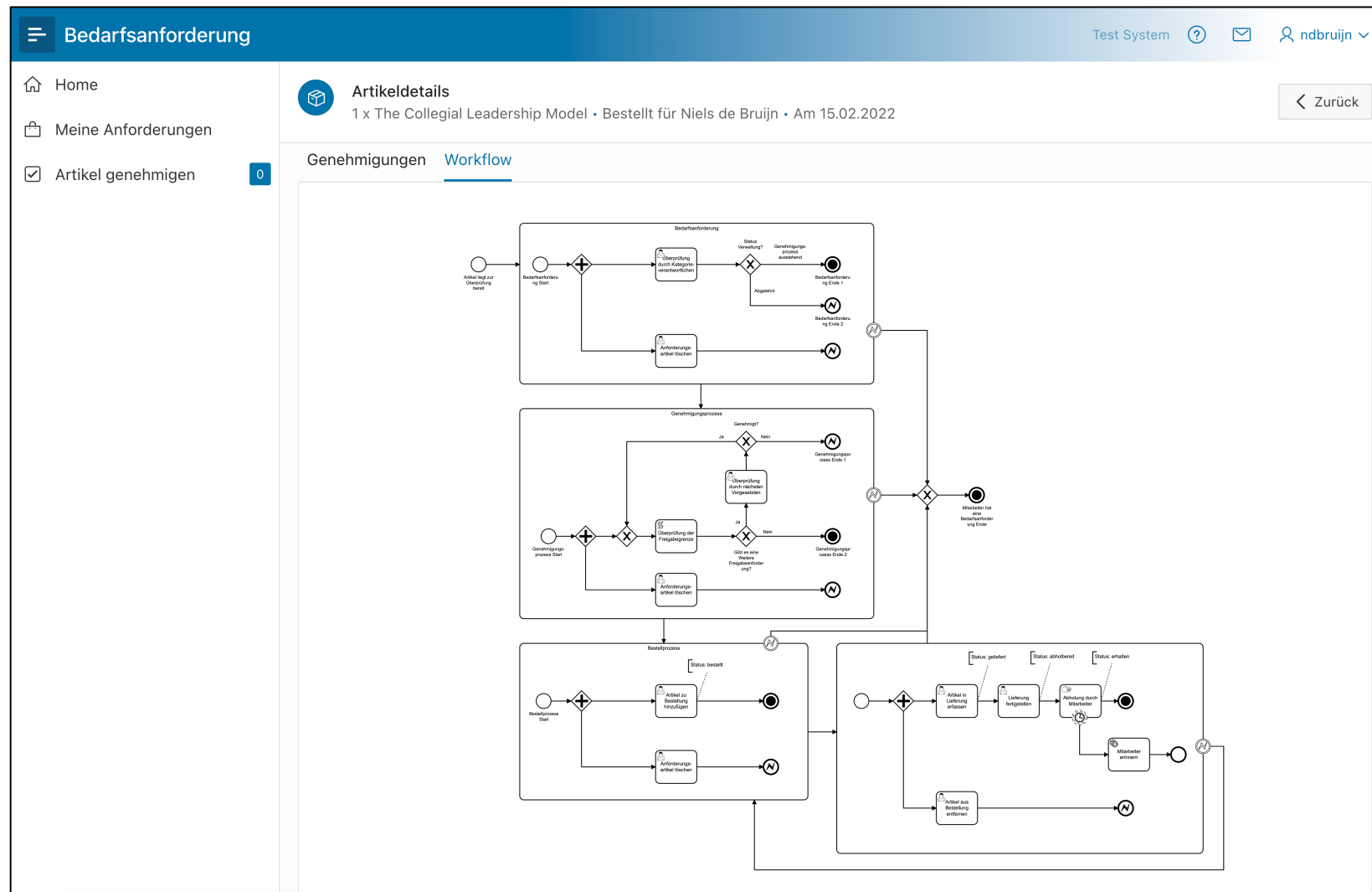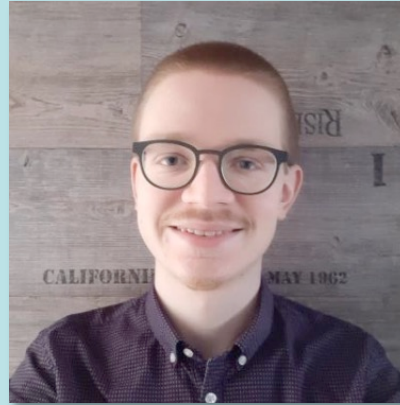- 📅 29-SEP 16:00 CET: APEX Office Hours webinar about Flows for APEX 22.2

- 📅 04-OCT 08:00 CET: Flows for APEX 22.2 interactive session with the core team (EU/Asia Pacific region)

- 📅 04-OCT 16:00 CET: Flows for APEX 22.2 interactive session with the core team (EU/America region)

- 🌐 See my blog post on https://nielsdebr.blogspot.com for all the registration links

- 📅 05/06-OCT CET: 2-day DOAG Expertseminar in Berlin (see doag.org)

This is great!

How can I support?

Help us to **get the word out**

- Become a partner

Spend some spare time to help us out on this project

- We need ie. testers, translators and programmers

Pay us a monthly fee to get your **bugs prioritized**

- Available through GitHub Sponsors: github.com/sponsors/flowsforapex
  - Companies will receive an invoice from MT AG as legal entity

Looking for **specific features** or an **individual maintenance contract**?

- Contact Flows for APEX partners like MT AG & Insum