

Mendix

Technical Platform Overview

The screenshot displays the Mendix IDE interface for a project named 'Lato - Customer Facing'. The main workspace shows a microflow diagram for the activity 'DS_SetDateSubfix'. The flow starts with a 'Create String variable' activity (DayWithSubfix String), followed by a decision diamond 'is it *1st?'. If true, it leads to a 'Change variable DayWithSubfix' activity. If false, it leads to another decision diamond 'is it *2nd?'. If true, it leads to another 'Change variable DayWithSubfix' activity. If false, it leads to a third decision diamond 'is it *3rd?'. If true, it leads to a third 'Change variable DayWithSubfix' activity. If false, it leads to a final decision diamond. All paths converge at this final diamond, which then leads to an output connector 'SDayWithSubfix String'. The IDE interface includes a menu bar (File, Edit, View, App, Run, Version Control, Language, Help), a toolbar with various icons, and a sidebar with 'App Explorer' and 'Page Explorer' showing the project structure. The bottom status bar shows 'Ready' and 'English, United Kingdom'.

“

This is a good example of a general rule:

if a program writes your code for you, the code will be more correct and reliable than if you write it yourself by hand.

If the generator is improved, for example to produce better code, everyone benefits; by contrast, improvements to one hand-written program do not improve others.

Kernighan, Brian. UNIX: A History and a Memoir (p. 96). Chapter 5.

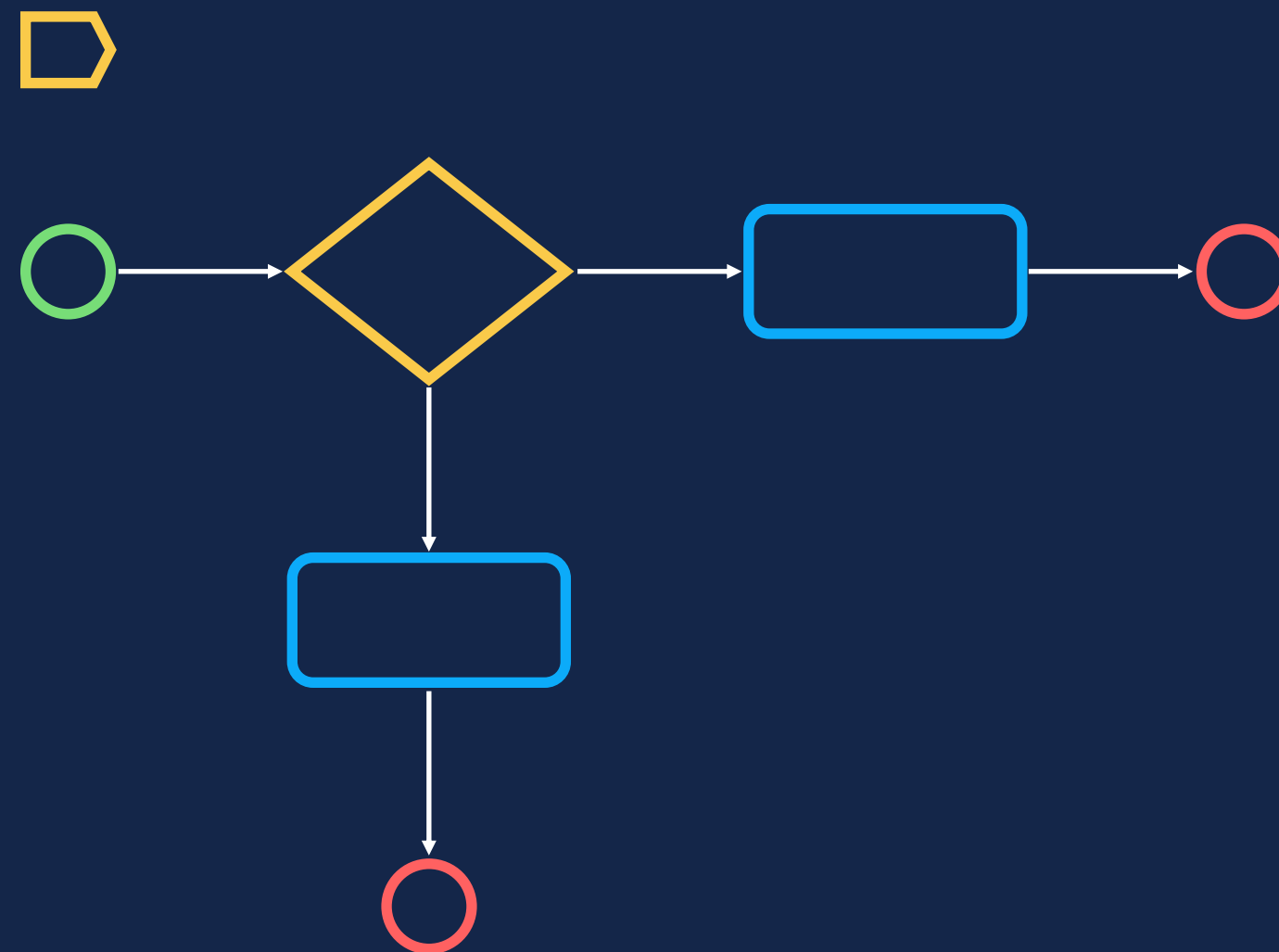


The Perception of Code

What people think coding looks like



What coding also looks like



Evolution of Code – A Journey of Abstraction

Low-level – Machine Level

BINARY

```
01100100
01100001
01101110
01101001
01100101
01101100
01100001
00100000
01100110
01101001
01100101
01101100
01100100
01100101
01100111
00110001
11101100
00011101
01010101
01110101
11111111
11010101
10101010
```

ASSEMBLY

```
SECTION .data
msg db 'Hello
World!', 0Ah

SECTION .text
global _start

_start:

    mov     edx, 13
    mov     ecx, msg
    mov     ebx, 1
    mov     eax, 4
    int     80h

    mov     ebx, 0 ;
return 0 status on exit -
'No Errors'
    mov     eax, 1 ;
invoke SYS_EXIT (kernel
opcode 1)
    int     80h
```

High-level - Further Abstraction Object Oriented & Functional

C

```
#include <stdio.h>
#include <string.h>
void hello_world(char name[]){
    if (strcmp(name,"Jeff") == 0){
        printf("Hello %s\n", name);
    }else{
        printf("I don't know anyone named
%s\n",name);
    }
}

int main() {
    // printf() displays the string inside
quotation
    hello_world("Jeff");
    return 0;
}
```

Java

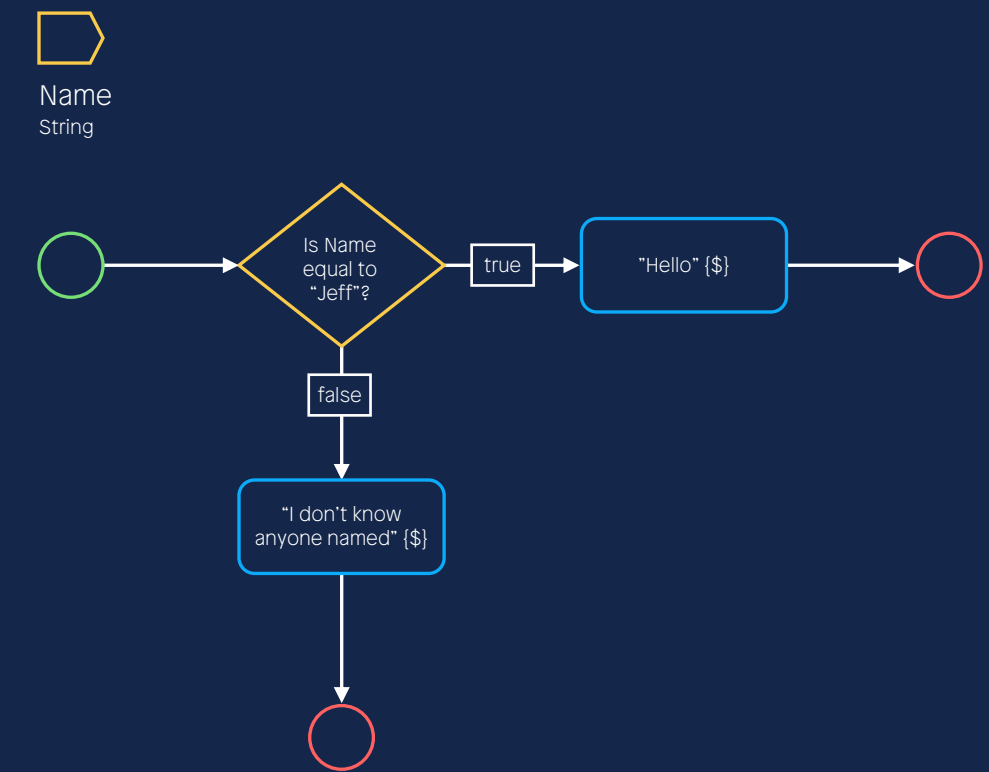
```
public class HelloWorld{

    public static void main(String []args){
        hello_world("Jeff");
    }

    public static void hello_world(String
name){
        if(name.equals("Jeff")){
            System.out.println("Hello "+name);
        }else{
            System.out.println("I don't know
anyone named "+name);
        }
    }
}
```

Visual & AI Programming

Mendix



18+ Years of evolving the Mendix Platform





Designed to deliver at scale

+200K

Apps

+50M

End Users

Transactions



Order Management

- 10s of millions of events processed per day
- 1.5M packages sorted daily
- 4.5M users can track their parcel delivery with PostNL's app

Integration



Core Lending System

- Over 100 integration points
- 30 months with C# vs. 8 months with Low-code
- Microsoft Dynamics & SharePoint, Fico Blaze Advisor

Users



Services Portal

- 3.3M residents using portal services
- 13K employees daily active employees
- 1.5M visits to the portal per month

Compliance



Digital Thread

- Leverages Kubernetes using Mendix for Private Cloud
- Supplier of defense contractors
- Offline Deployment in a secure environment behind two firewalls



Mendix supports you in any implementation

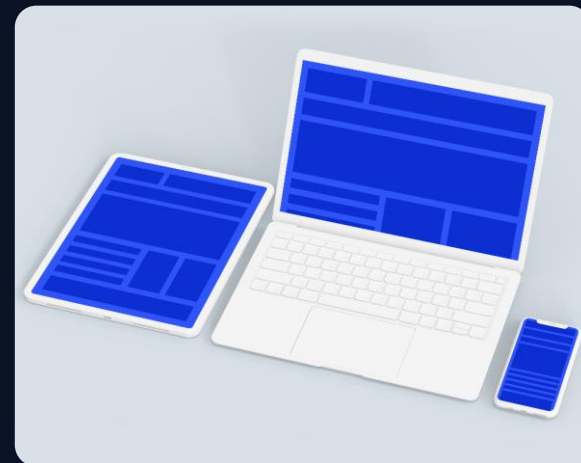
Best of breed: Full Spectrum



Native Mobile

Optimal user experience and best device integrations

(Powered by React Native)



Responsive Web

Quickest development from a web application

(Powered by React JS)



PWA

Simple user adoption without AppStore dependencies

(Powered by React JS)



Immersive

Leverage AR and VR to create unique experiences

(Powered by Babylon JS)



Cloud Native By Default

Run cost effectively and efficiently

- Minimize compute spend
- Auto-scaling to respond to user load

Ensure safety, security, and reliability

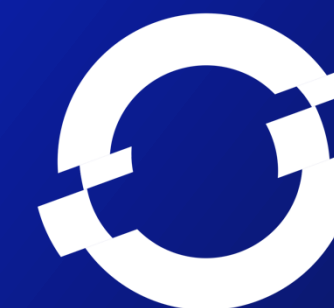
- Maximize uptime with resilient architecture
- Secure application runtime



kubernetes



docker



OPENSIFT

←

Low-Code as a feature.

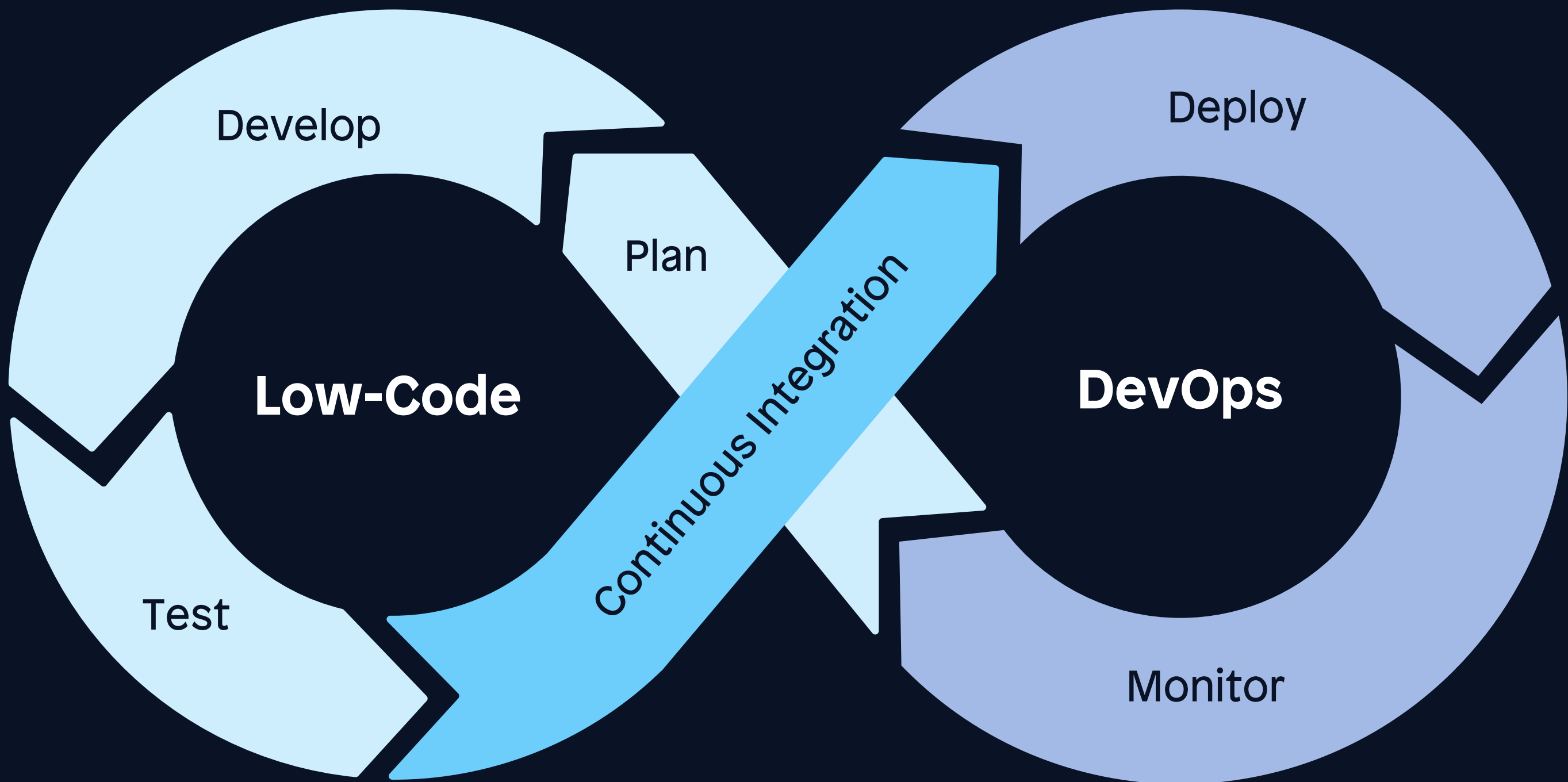


Low-Code as a foundation.





Mendix Low-Code DevOps Platform





Planning

Manage deliverables the way that works for your organisation



Manage Deliverables



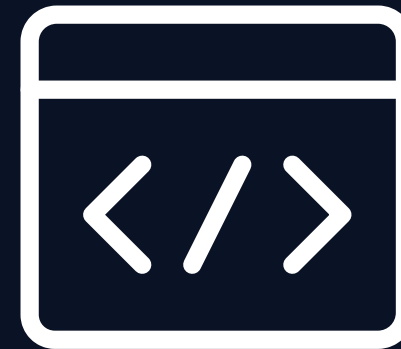
**Portfolio
Management**



**Developer
Portal**



EPICS



APIs



Jira

**Jira
Connectivity**

Mendix Portfolio Management

- Collaborative Project Planning
- Cost/Benefit Analysis
- Industry standard prioritisation
- Project Archiving

The image displays three overlapping screenshots of the Mendix Portfolio Management application interface. The top screenshot shows a 'Projects Overview' table with columns for Project, Stage, Business Value, Time Criticality, Risk Reduction, Size, and Score. The middle screenshot shows a Kanban view of projects across stages: Ideation, Proposal, Development, Go Live, and Evaluation. The bottom screenshot shows a detailed view of a 'Product Inventory' project, including linked app information, planning dates, and estimated value details.

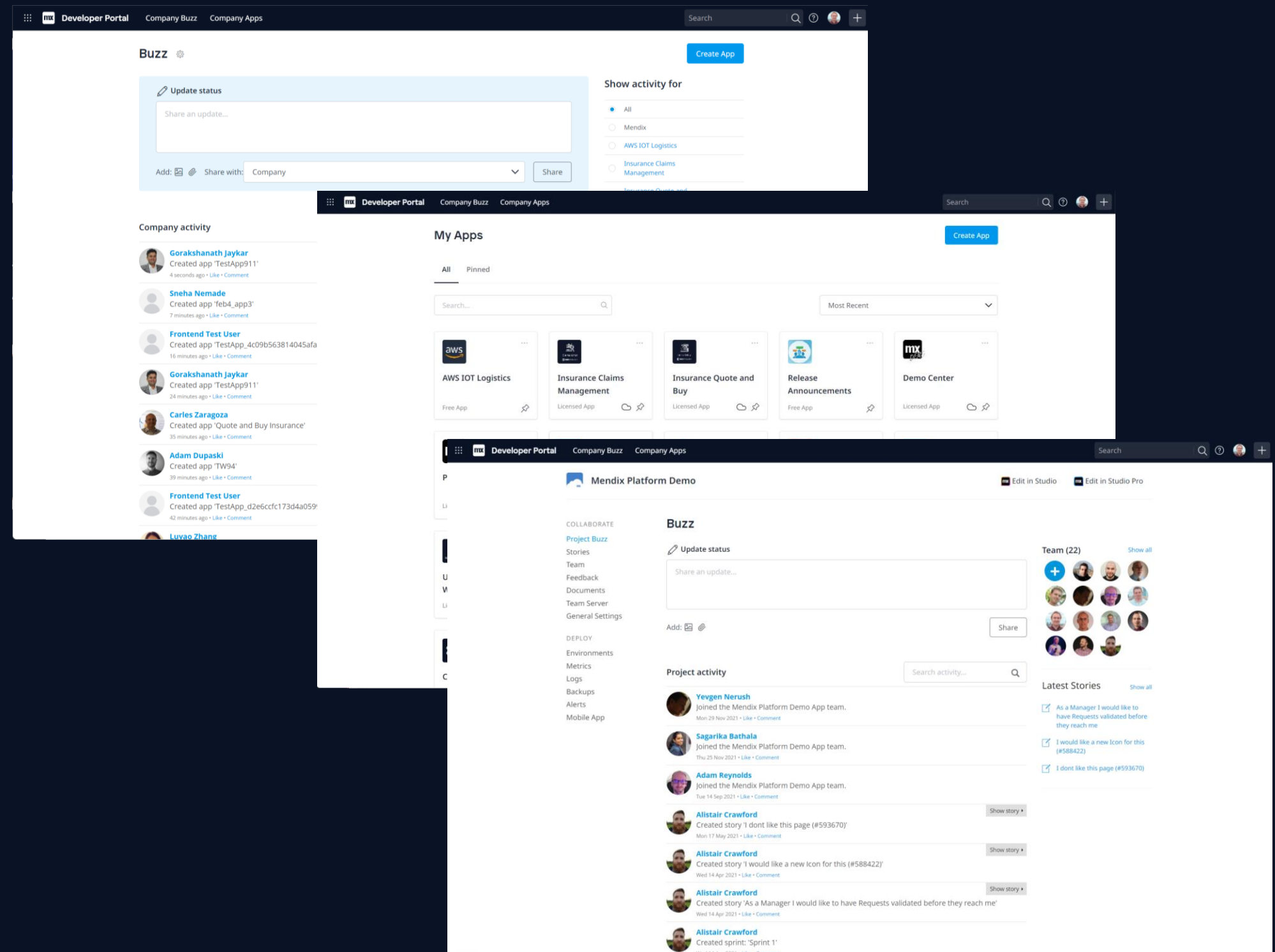
Project	Stage	Business Value	Time Criticality	Risk Reduction	Size	Score
Supply Risk Management	Go Live	High	Medium	High	M	4.25
Product Inventory	Development	High	Medium	High	M	4.25

Product Inventory Details:

- Linked App: Product Inventory
- Owner: Joe
- Stage: Development
- Department: Production
- Country: United States of America
- Use Case: Legacy Migration
- Intake Date: Jan 4, 2023
- Start Date: Jan 16, 2023
- Go-Live Date: Apr 1, 2023
- Prioritization: WSJF Model
- Business Value: High
- Time Criticality: Medium
- Risk Reduction: High
- Estimated Size: M
- Score: 4.25
- Estimated Value: Legacy License Saving (500,000 €)
- Value Type: FTE Reduction
- One-Off / Recurring: One-Off
- Monetary Value: 50,000 €

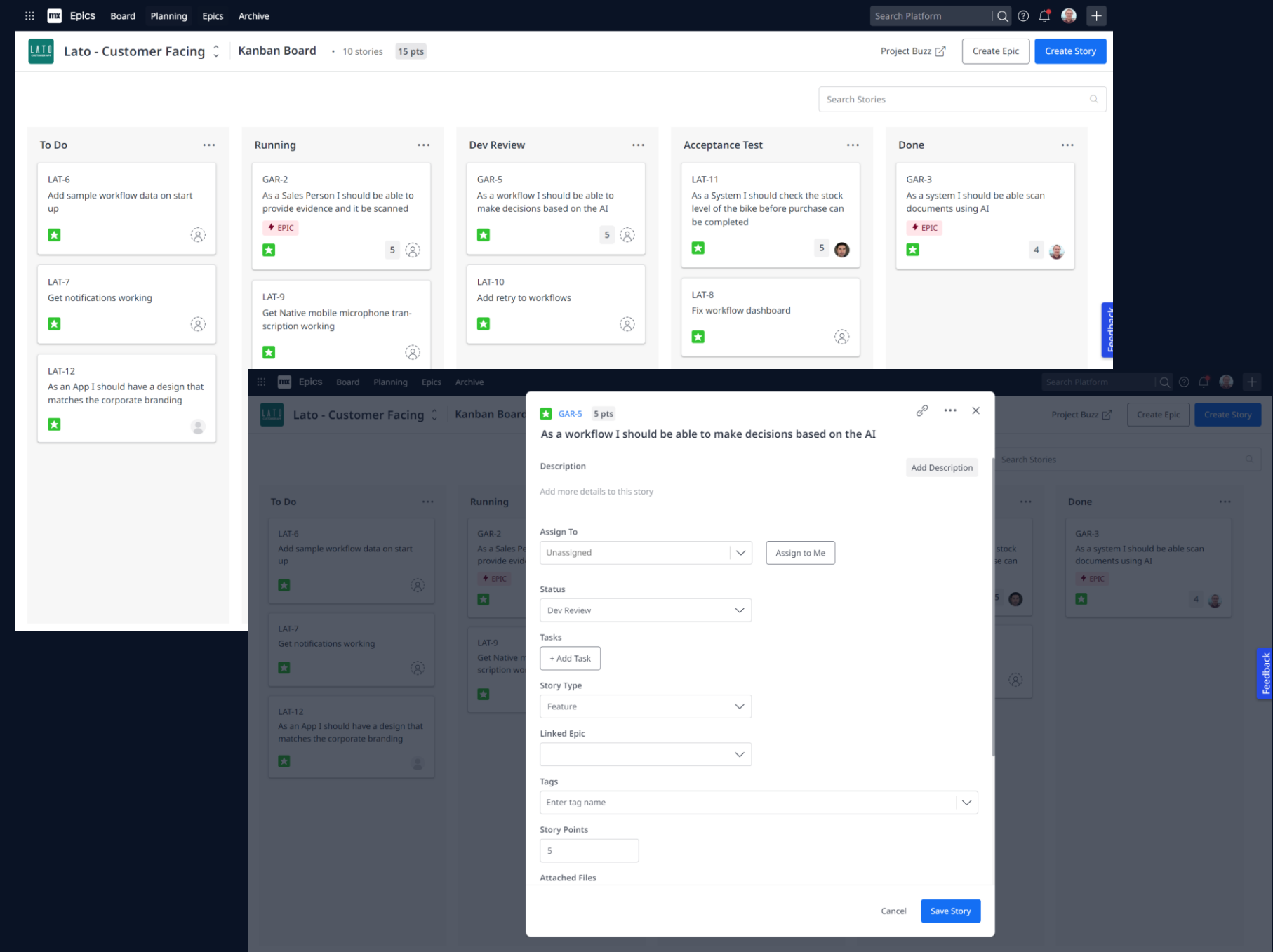
Mendix Developer Portal

- Social Buzz
- Agile Project Management
- Team Development
- Feedback Management



← Epics - Stories & Collaboration

- Scrum and Kanban project management
- Manage Stories, Sprints and tasks
- Story point estimation
- User assigned tracking



Platform APIs

Extend the platform with your own toolset utilizing our extensive APIs

Allows for the full control over:

- Projects
- Sprints
- Stories
- Feedback

The screenshot shows the Mendix Docs website for the 'Stories API'. The page is titled 'Stories API' and includes a navigation menu on the left with categories like 'Release Notes', 'Studio Pro 9 Guide', and 'APIs & SDK'. The main content area features an introduction to the API, a table of parameters, and a section for 'Published Microflows'. A feedback button is visible on the right side of the page.

Docs / APIs & SDK / API Documentation / Stories API

Stories API

Last update: Sep 3, 2021

[Edit](#) [Table of contents](#)

1 Introduction

The Mendix Stories API allows you to retrieve, create and update the sprints, stories and tasks in your Mendix projects.

Each call also requires the parameters 'username' and 'password'. These are the public credentials you will find below; actual authentication of requests is done through API keys.

- username: PlatformAPIUser
- password: PlatformAPIPassword

To use the API, you need to set up a [Consumed Web Service](#) using the WSDL for this service, available here: [Get WSDL](#). You can find out how to do this in [How to Consume a Complex Web Service](#).

2 Published Microflows

2.1 Microflow CreateSprint

This microflow creates a new sprint for the specified project and returns the ID of the new sprint.

Parameter Name	Parameter Type	Description
ApiKey	String	The API Key the application uses to access the Stories API for this project.
DurationInWeeks	Integer/Long	Duration of the new sprint in weeks.

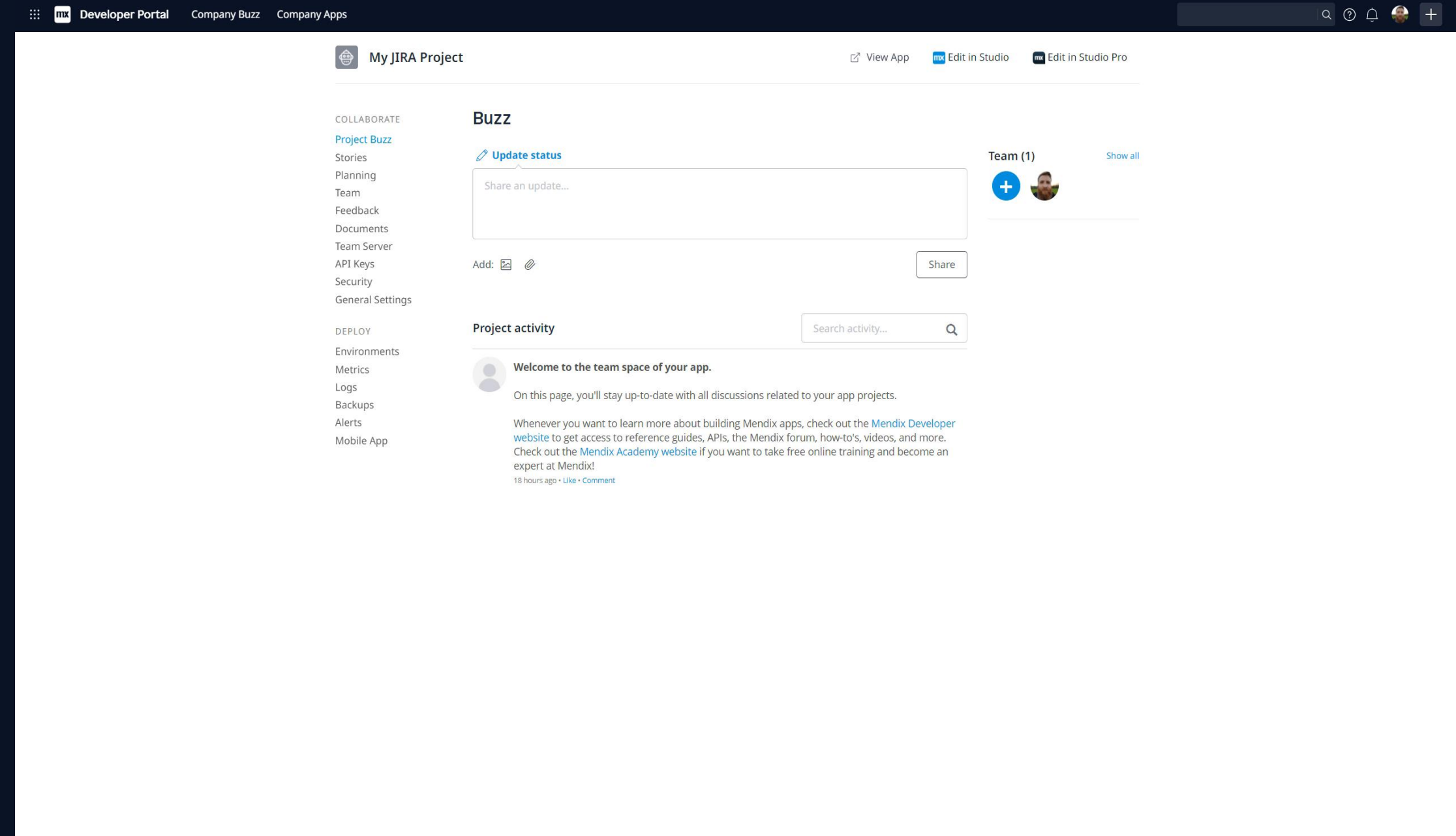
ENGLISH ▾

Jira Connectivity



Leverage your existing investments in Jira with Mendix. The Jira connectivity service provides:

- Seamless integration with JIRA
- Update JIRA requirements from inside of Mendix
- Connect development changes to requirements
- No replication between Mendix & Jira

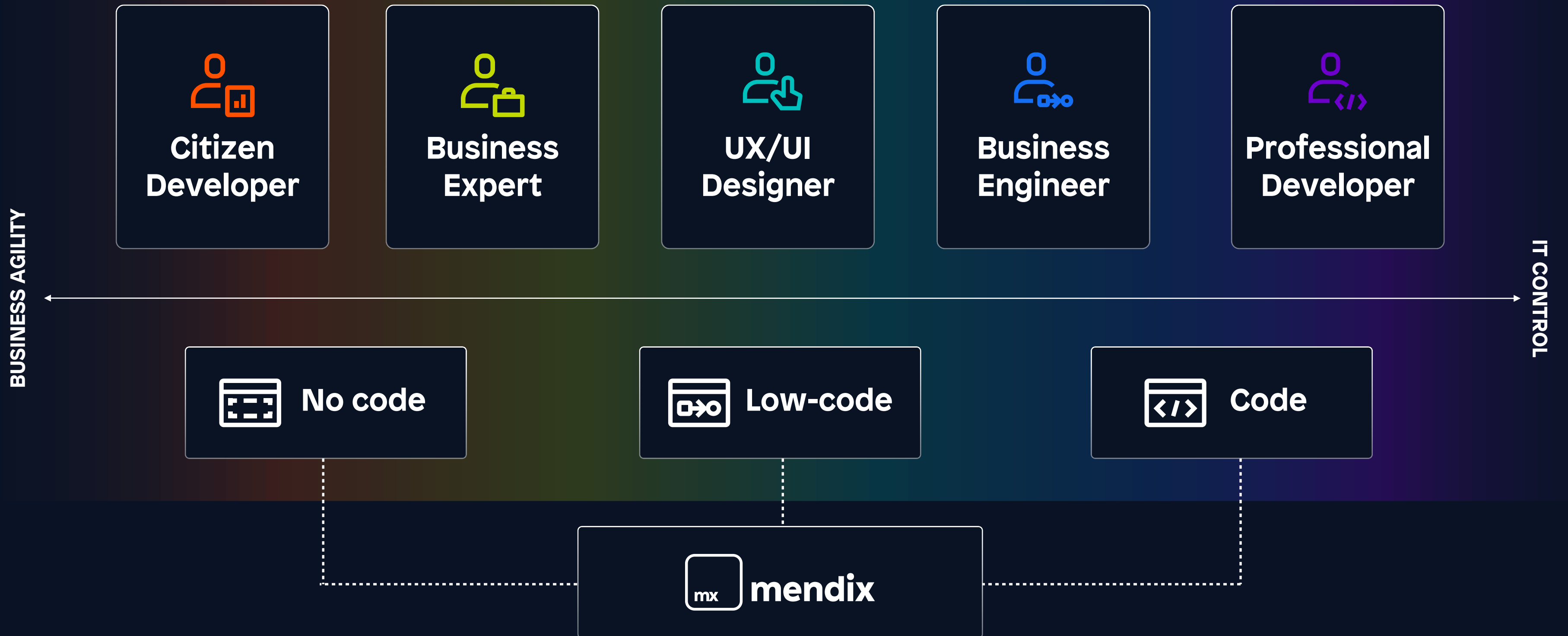




Development

Unlocking the true potential of every developer

Powering Fusion Teams





Mendix Application Development Architecture



Mendix Application

Presentation Layer



Web



Mobile



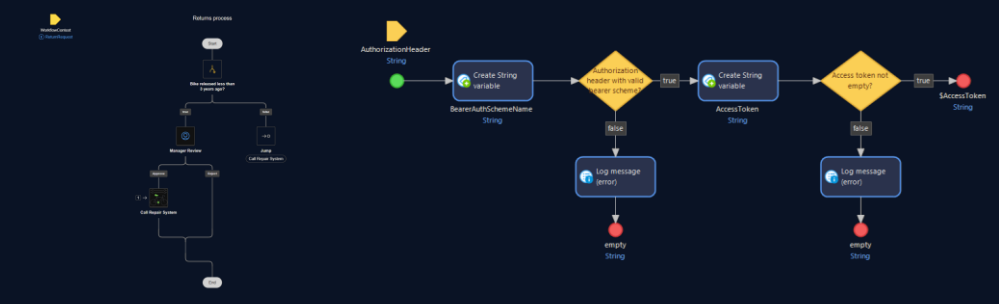
Tablet



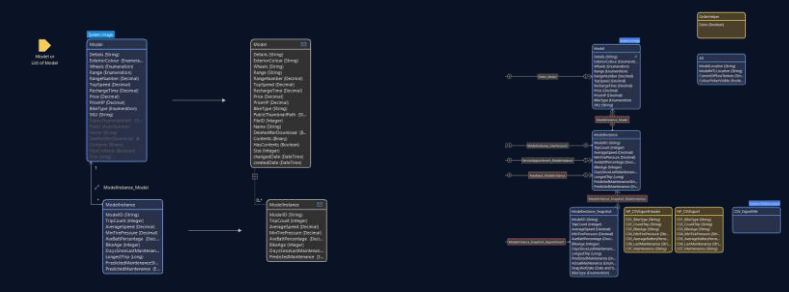
AR



Logic Layer

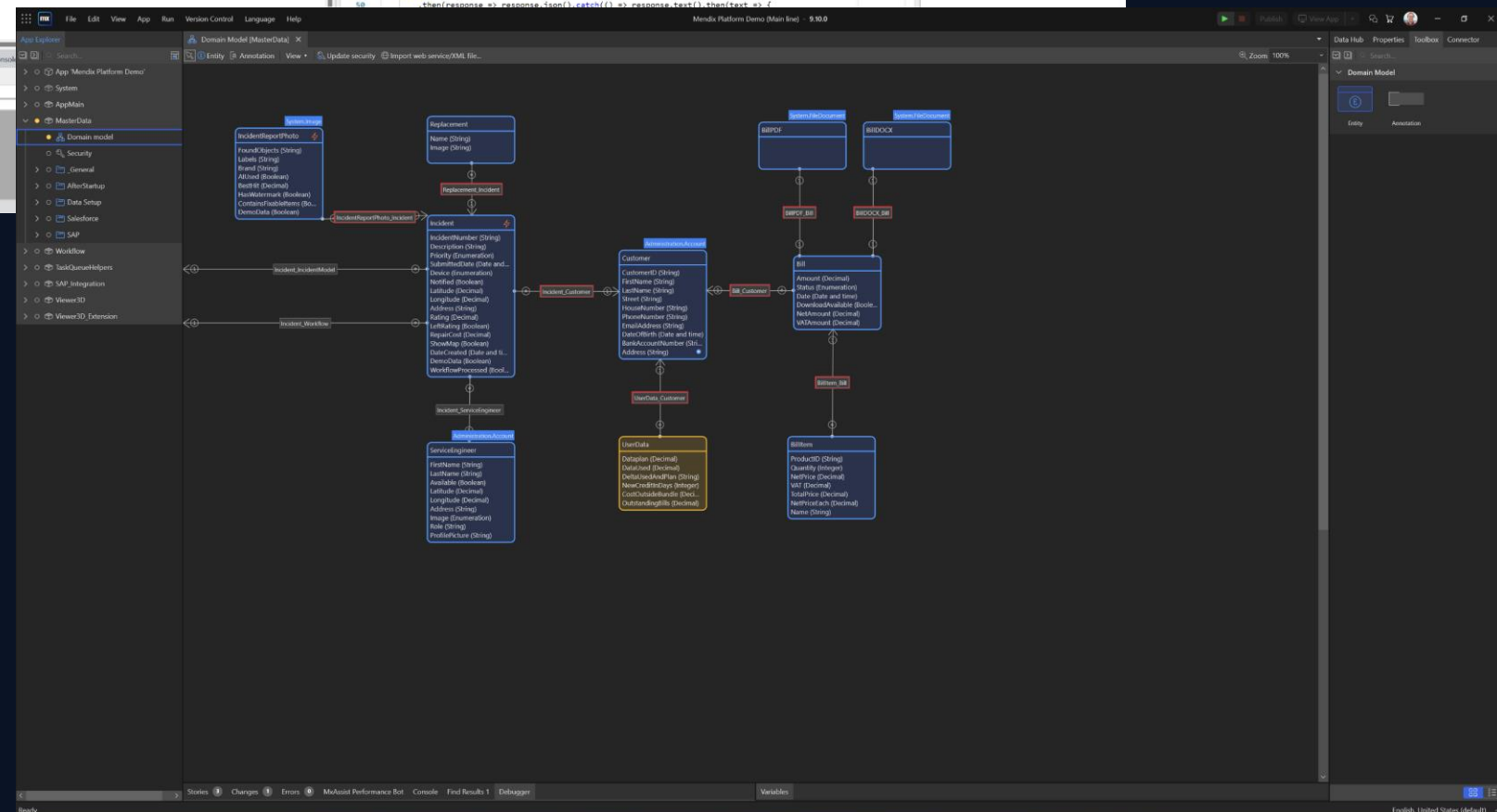
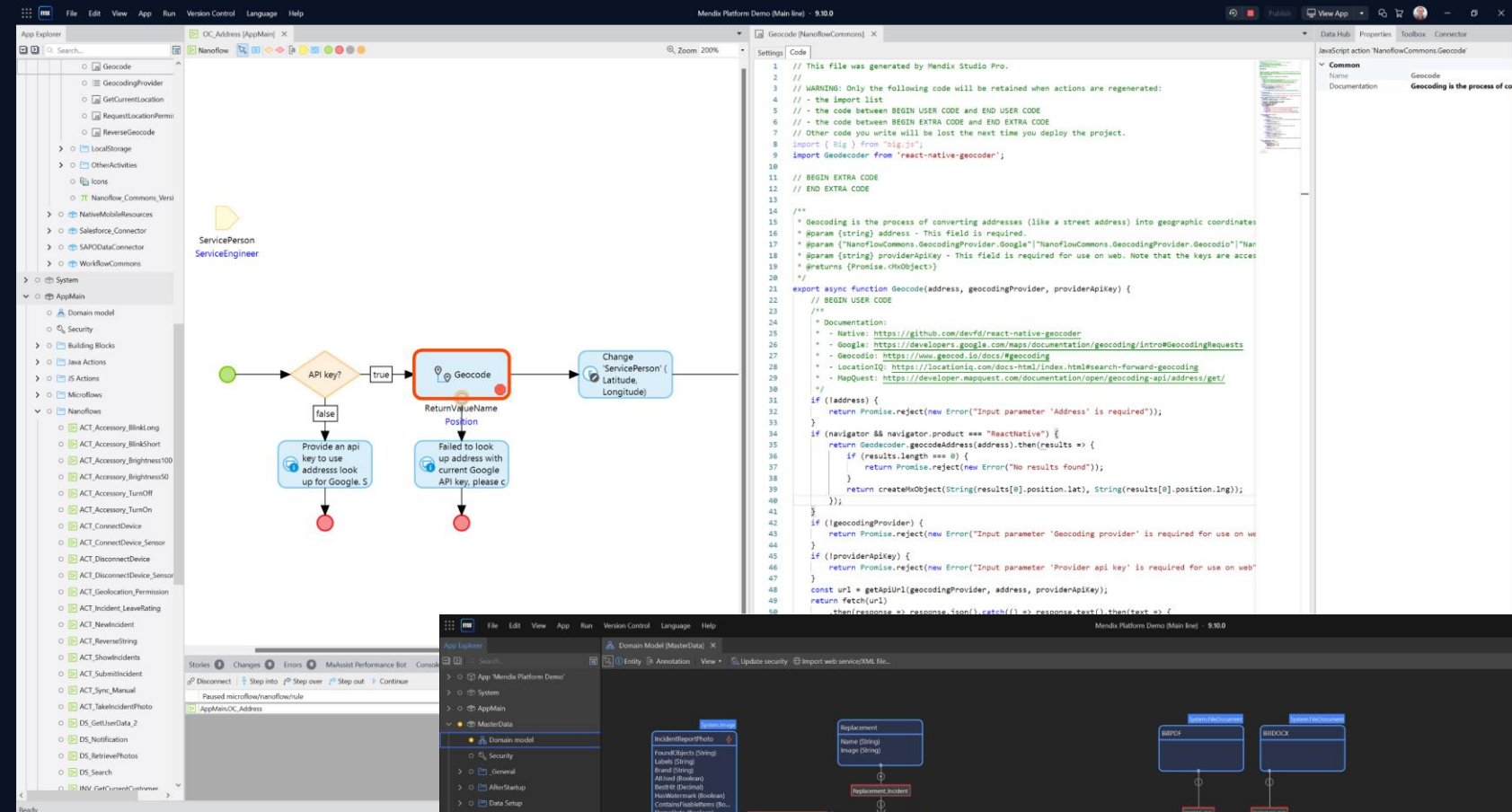


Data Layer



Mendix Studio Pro

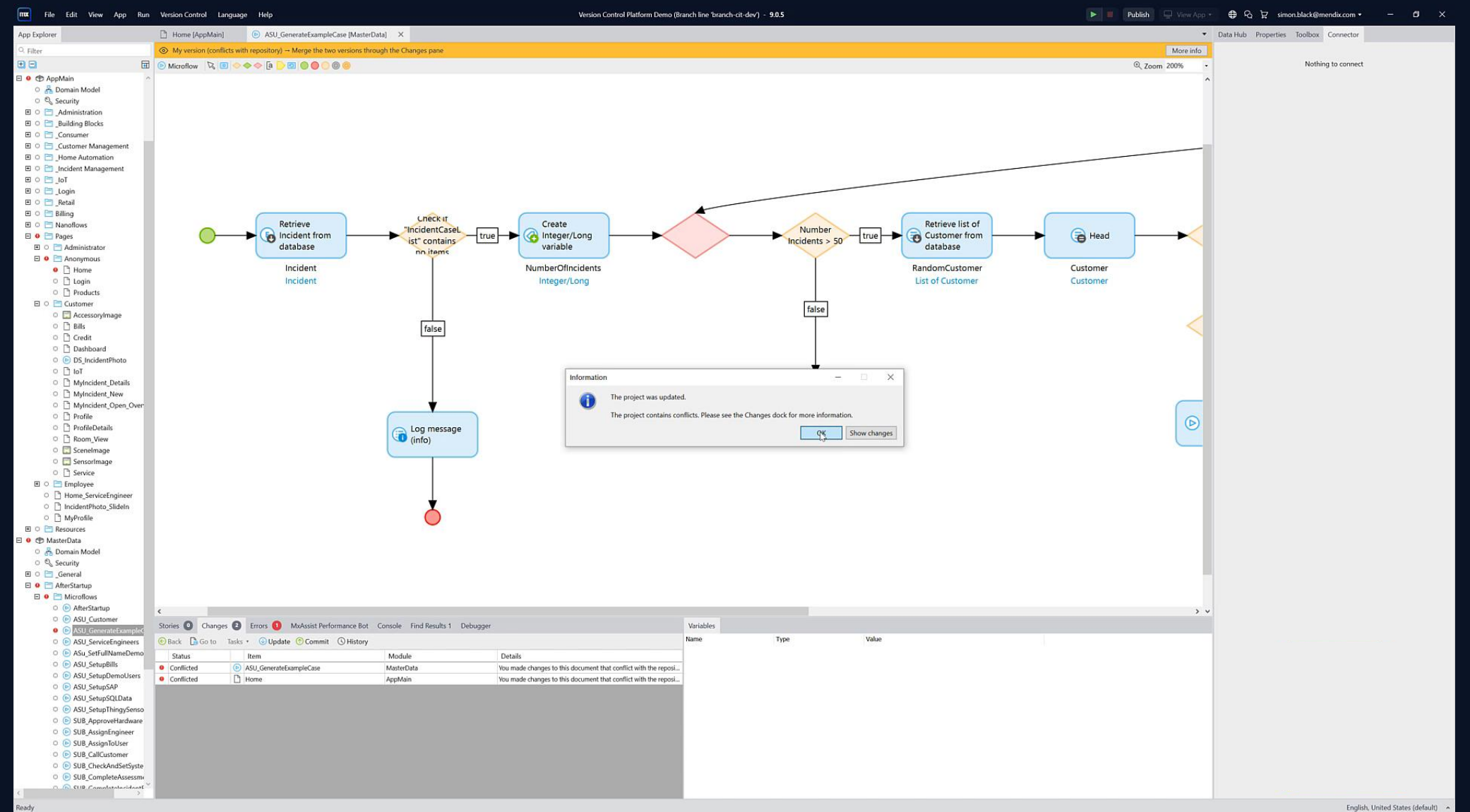
- Desktop IDE Install or run installation-free
- Develop without connectivity
- Wide set of capabilities
- Light and Dark mode Support



Visual Merging

Changes are recorded and compared against other revisions to detect conflicts and manage updates.

- Mendix delivers an **industry first algorithm** to ensure developers can visually handle conflicts and merge updates.
- Developers can retrieve changes from the versioning repository for components of the applications (i.e. pages, microflows, integrations, etc.).

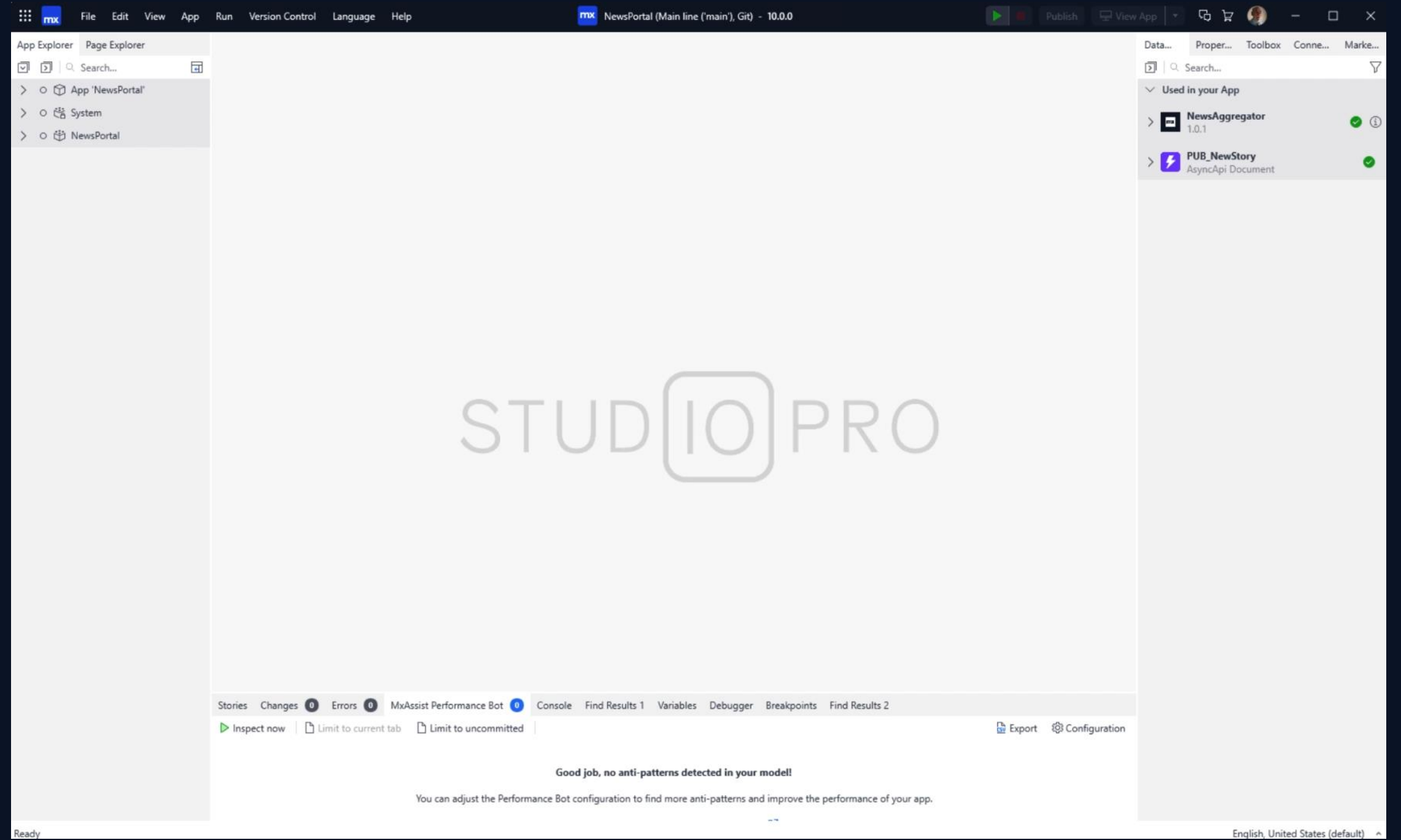


Leveraging the right version control system

When it comes to version control systems, Mendix supports the highly popular Git.

Mendix supports branching and merging with full auditability.

Developers have autonomy on whether to host their repositories with Mendix or externally.





Mendix AI Assistants



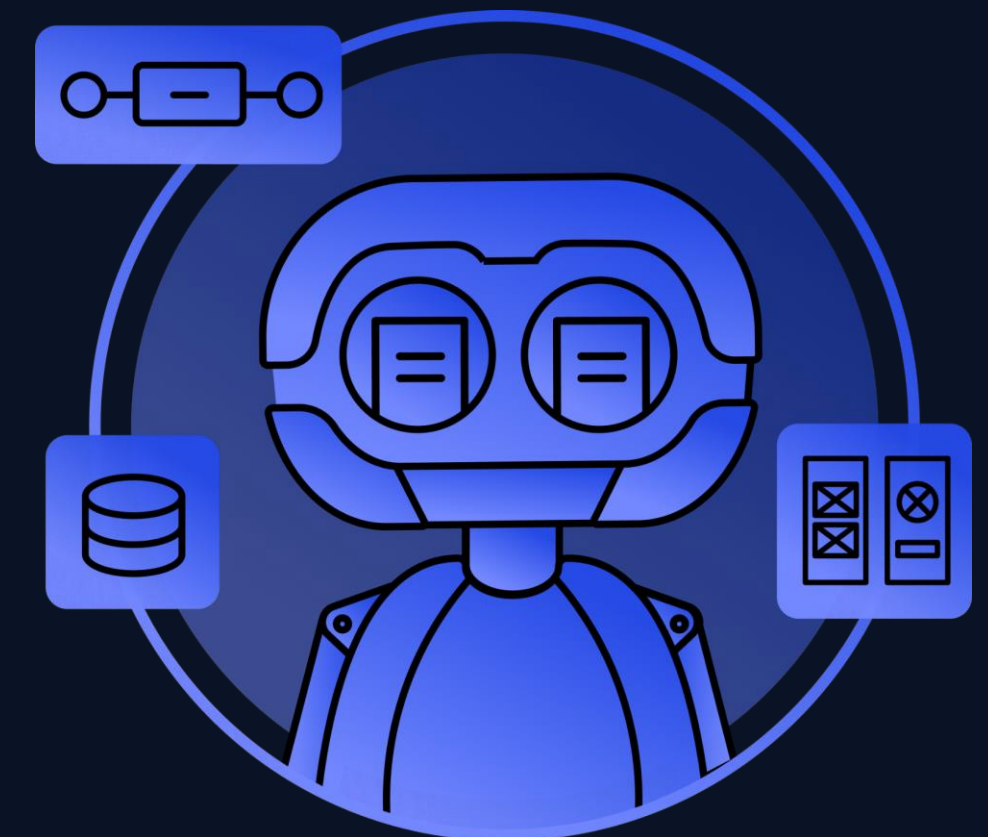
Logic Bot

Assists developers by recommending context-aware next most likely activities in microflow design and auto parametrizing the selected action



Best Practice Bot

Assists developers in optimizing their app during development by detecting anti-patterns and recommending contextualized suggestions on how to refactor the app model based on the Mendix best practice

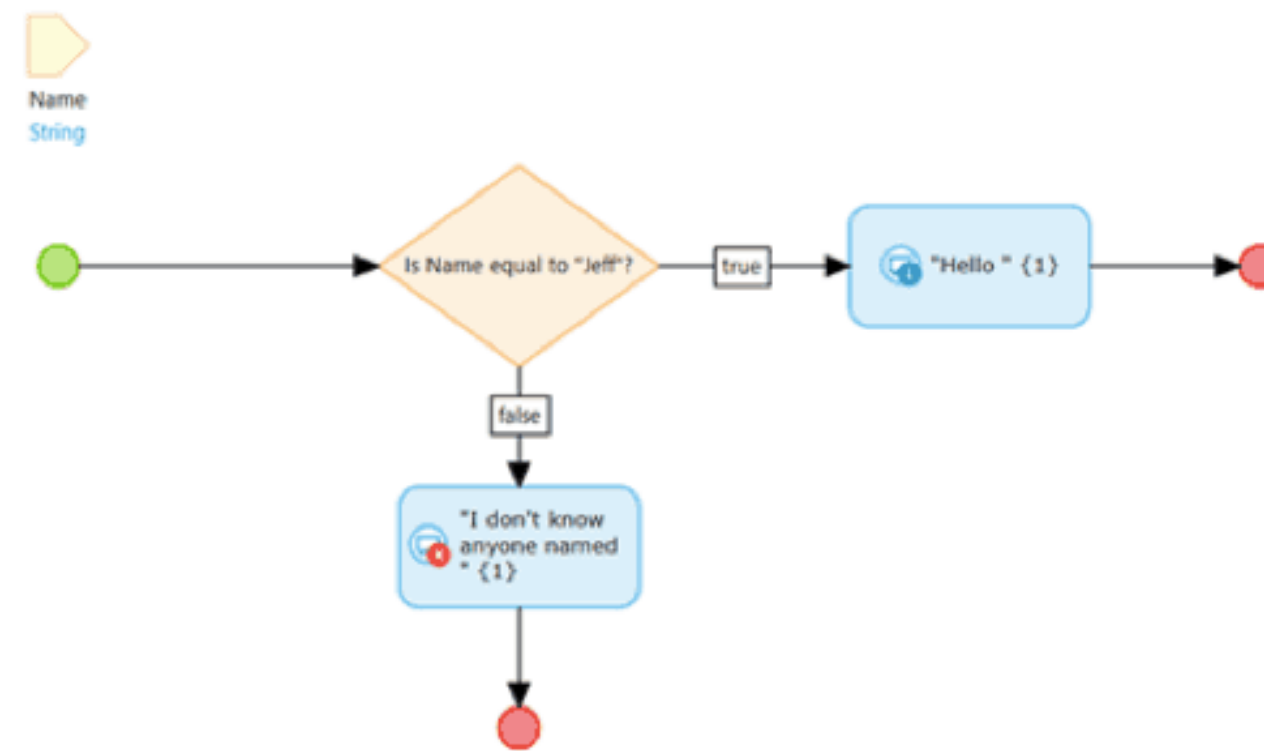


Validation Assistant

Assists developers in creating high quality page validation microflows using prebuilt expressions

Low code abstracts traditional code into human-readable logic and design, dramatically reducing software development costs and accelerating time to value.

```
2 function hw(name)
3 {
4   var strText;
5   if(name == "Jeff")
6   {
7     strText = "Hello " + name;
8     return strText
9   }
10  else
11  {
12    return "I don't know anyone named " + name;
13  }
14 }
15
16 hw("Jack");
```



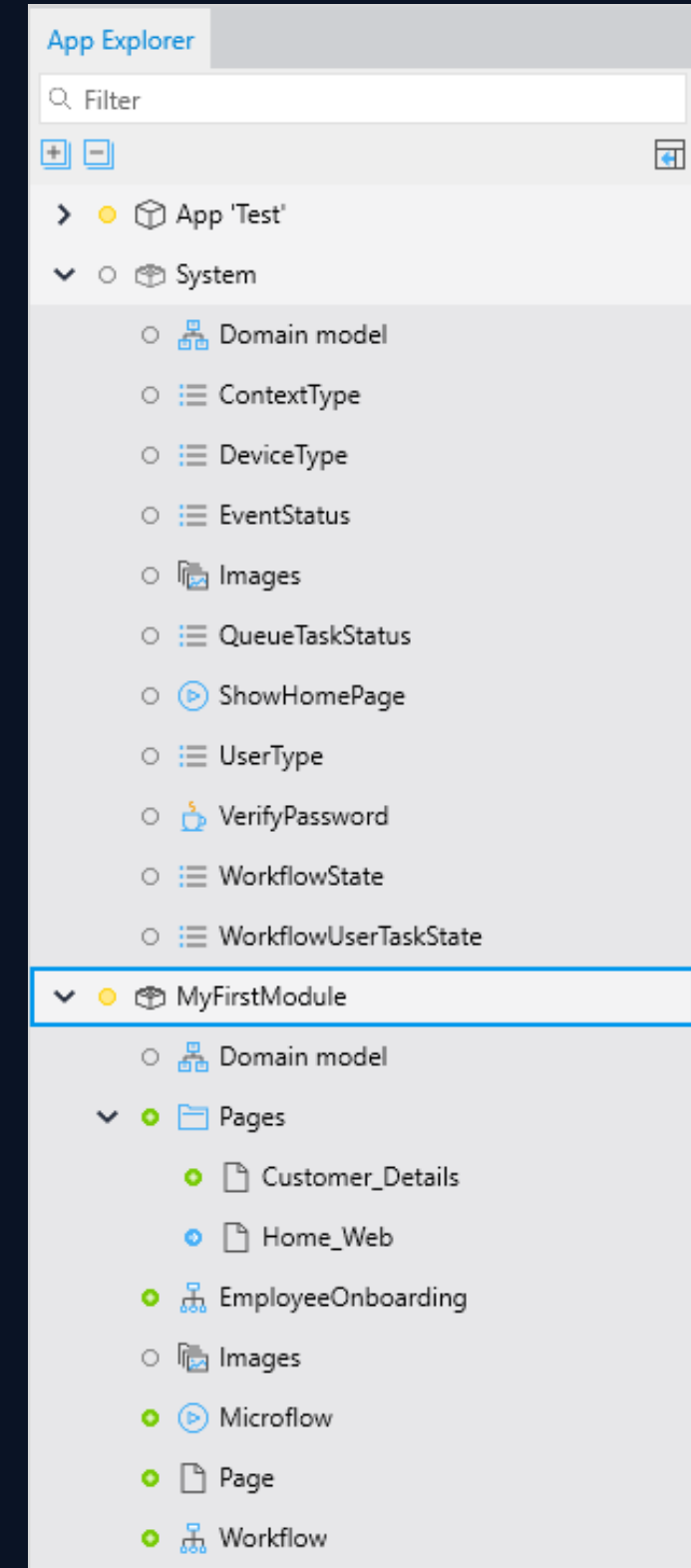
Modules

Low-code approach to packages

- Application functionality is broken into modules
- Modules are reusable across applications
- Modules contain: Data, Logic, Pages and Security

Ensuring Reuse

- Modules are independent and can be updated when desired
- Modules are shareable via Mendix Marketplace (Public or Private)
- Modules can be made Editable or Protected. Making a module protected ensures that it cannot be changed and enables the developer to hide implementation details



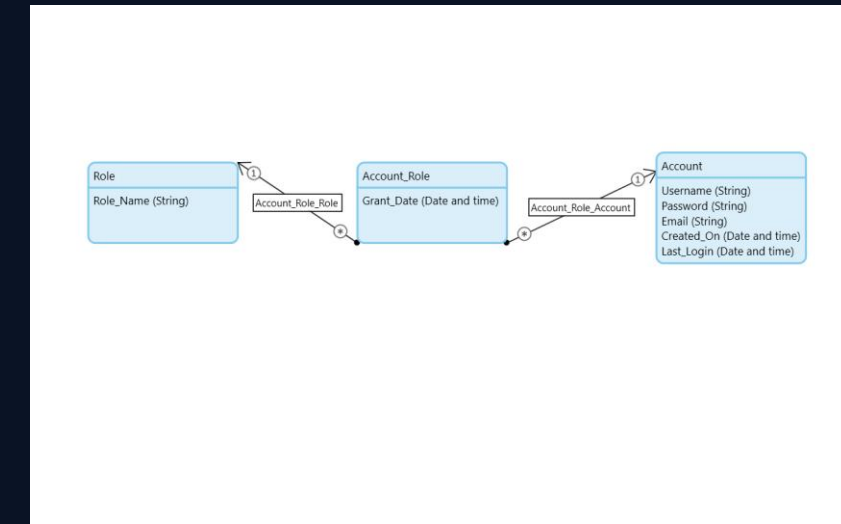
Domain Models (Data)

Low-code approach to Data

- Based on ERD
- Visual representation of data
- Contains both persisted and in-memory data
- Leverages Entities, Attributes and Associations
- Controls all updates to underlying database of your choice

Ensuring Reuse

- Each Module contains a domain model ensuring that data structures can be reused
- Entities can Inherit from each other
- Updates to Domain Model are propagated to all other concepts (Pages, Logic and Security)



Visual Code
(Domain Model)

=

```
1 CREATE TABLE roles(  
2   role_id serial PRIMARY KEY,  
3   role_name VARCHAR (255) UNIQUE NOT NULL  
4 );  
5 CREATE TABLE accounts (  
6   user_id serial PRIMARY KEY,  
7   username VARCHAR ( 50 ) UNIQUE NOT NULL,  
8   password VARCHAR ( 50 ) NOT NULL,  
9   email VARCHAR ( 255 ) UNIQUE NOT NULL,  
10  created_on TIMESTAMP NOT NULL,  
11  last_login TIMESTAMP  
12 );  
13 CREATE TABLE account_roles (  
14  user_id INT NOT NULL,  
15  role_id INT NOT NULL,  
16  grant_date TIMESTAMP,  
17  PRIMARY KEY (user_id, role_id),  
18  FOREIGN KEY (role_id)  
19   REFERENCES roles (role_id),  
20  FOREIGN KEY (user_id)  
21   REFERENCES accounts (user_id)  
22 );
```

Textual Code (SQL)



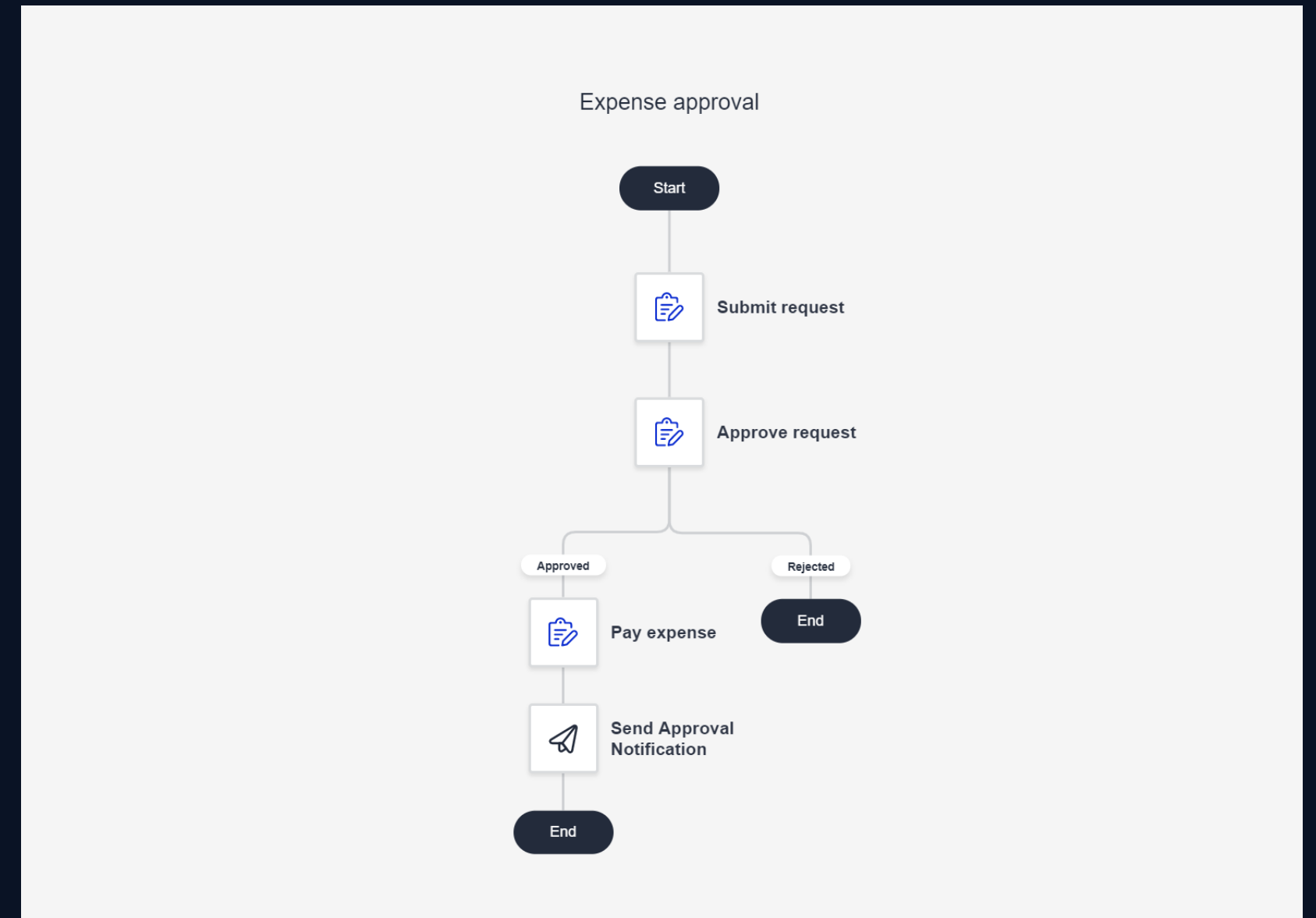
Workflows

Low-code approach to process automation

- Visually express the business process
- Dedicated workflow editor that is fast and accessible
- A visual approach to object state-based workflow
- Drag & drop human tasks and automated tasks
- Able to run long-lived processes

Accessible for all developers

- Natively part of the developer experience
- Works with pages, microflows, security etc.
- Seamless handover between developers



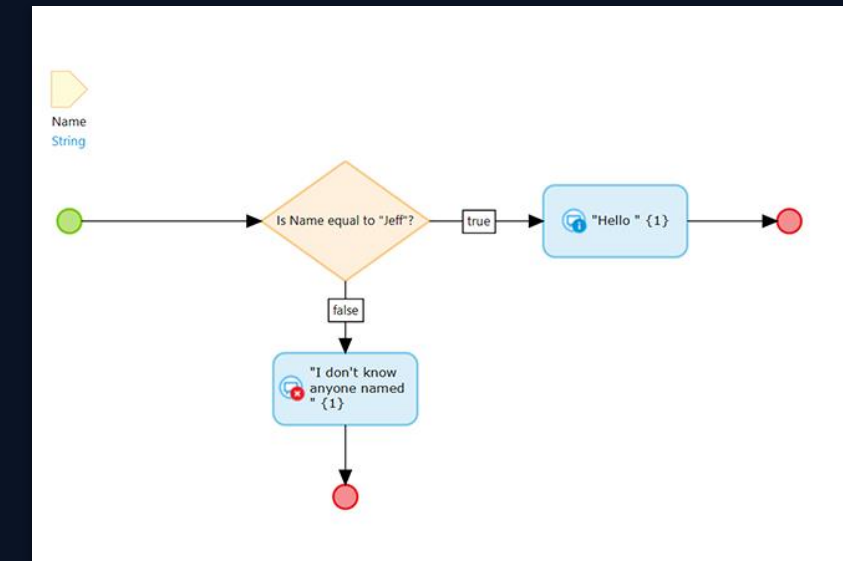
Microflows & Nanoflows (Logic)

Low-code approach to logic

- Short lived function
- Visual coding language
- Runs both Client-side (Nanoflows) and Server-side (Microflows)
- Contains: Parameters, Actions, Decisions, Loops and Merges.

Ensuring Reuse

- Extend using Java or JavaScript actions
- Create your own Low-Code actions using JS or Java
- Encapsulate logic as actions to encourage reuse.



Visual Code
(Microflow & Nanoflow)

=

```
2 function hw(name)
3 {
4   var strText;
5   if(name == "Jeff")
6   {
7     strText = "Hello " + name;
8     return strText
9   }
10  else
11  {
12    return "I don't know anyone named " + name;
13  }
14 }
15
16 hw("Jack");
```

Textual Code
(JavaScript)



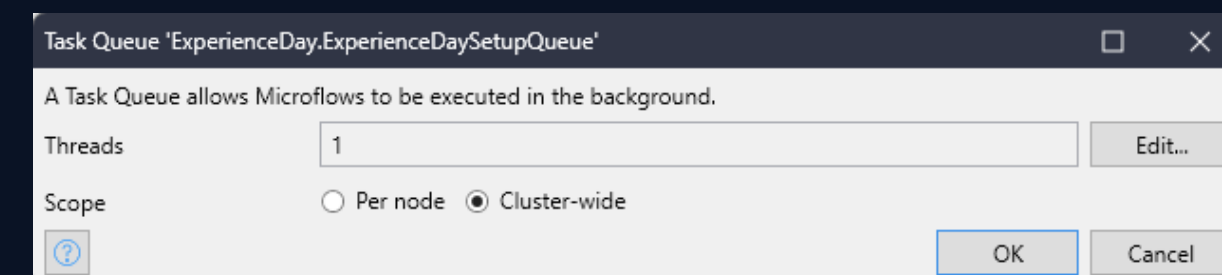
Task Queues

Low-code approach to background execution

- Microflow or Java code execution in the background
- Developer-defined Queues with control of number of concurrent executions (threads)
- Execution across nodes in a clustered deployment
- Automated restart of incomplete tasks

Ensuring Reuse

- Each Task Queue can execute tasks of different types
- No time limit on task execution
- Push lengthy processes into the background to minimize user inconvenience



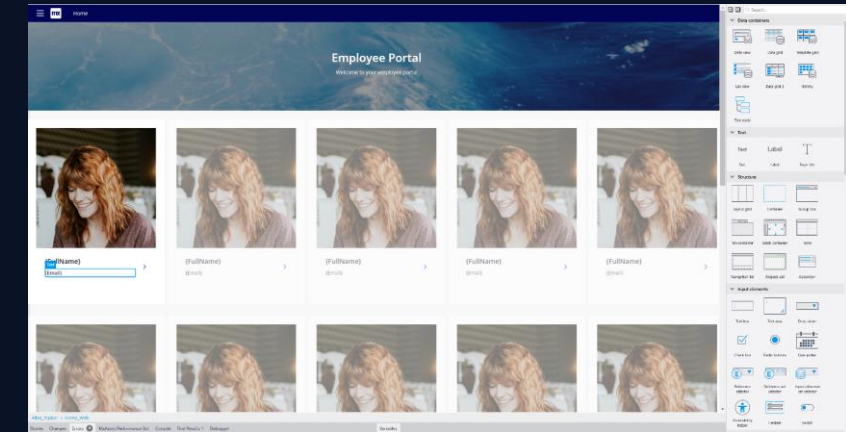
Pages (UX/UI)

Low-code approach to UI

- Visually build custom UIs for any User Experience
- Full WYSIWYG editor
- Leverage security models to provide unique experiences for individual users whilst reusing page components
- Extend with HTML & JS to enhance experience

Ensuring Reuse

- Building Blocks and Widgets allow for design reuse across applications
- Teams can build full Design Systems to ensure design best practices
- Designs can be layered to provide design hierarchy
- Snippets encourage sharing common content on multiple pages



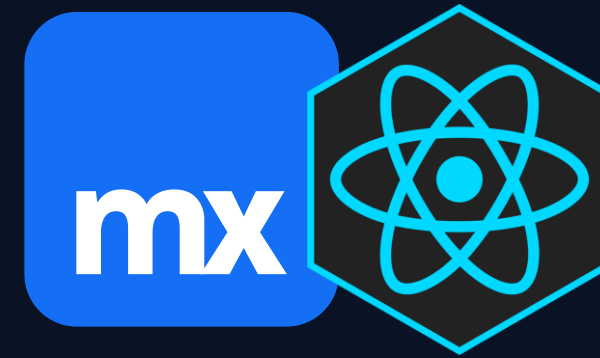
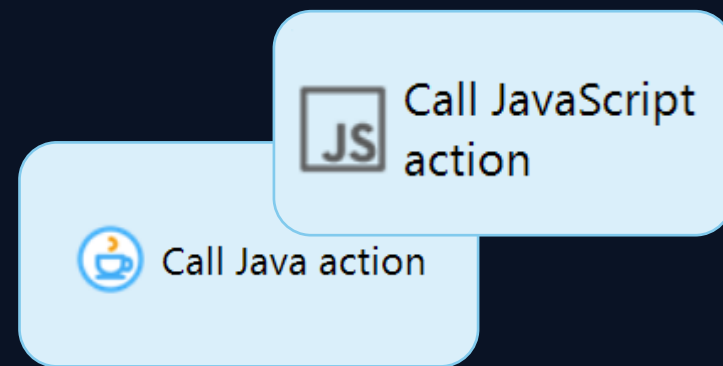
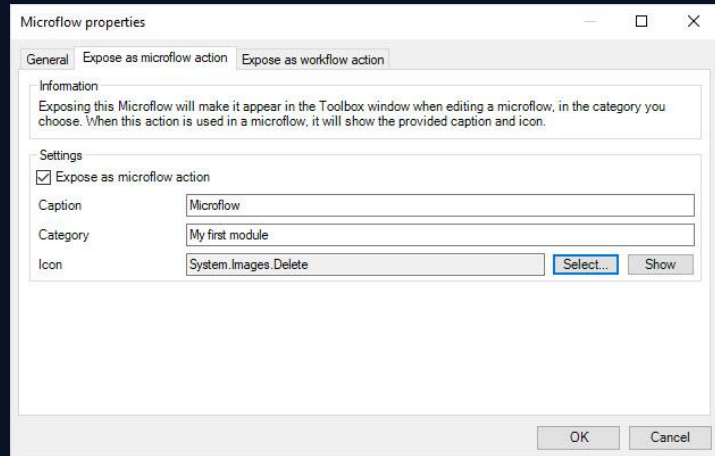
Visual Code
(Pages)

=

```
1 <HTML>
2 <head>
3 <title>Mendix App</title>
4 <link rel="stylesheet" href="./stylesheet.css">
5 </head>
6 <body>
7   <ul>
8     <li>
9       <div class="card">
10        
11        <h2>Full name</h2>
12        <h3>Email Address</h3>
13      </div>
14    </li>
15    <li>
16      <div class="card">
17        
18        <h2>Full name</h2>
19        <h3>Email Address</h3>
20      </div>
21    </li>
22    <li>
23      <div class="card">
24        
25        <h2>Full name</h2>
26        <h3>Email Address</h3>
27      </div>
28    </li>
29  </ul>
30 </body>
31 </HTML>
```

Textual Code
(HTML)

Development Extensibility



Low-code logic extensions

Expose Microflow or Nanoflow logic as a native action with icon and description.

Extending the capabilities of the platform and simplifying reuse.

Code logic extensions

Extend the front-end and back-end logic with custom JavaScript/Java actions and leverage existing code packages.

Extending the capabilities of the platform and simplifying reuse.

Front-end extensions

Extend the front-end with pluggable widgets and custom code using React/React Native.

Ensuring a truly flexibility user interface.

IDE extensions

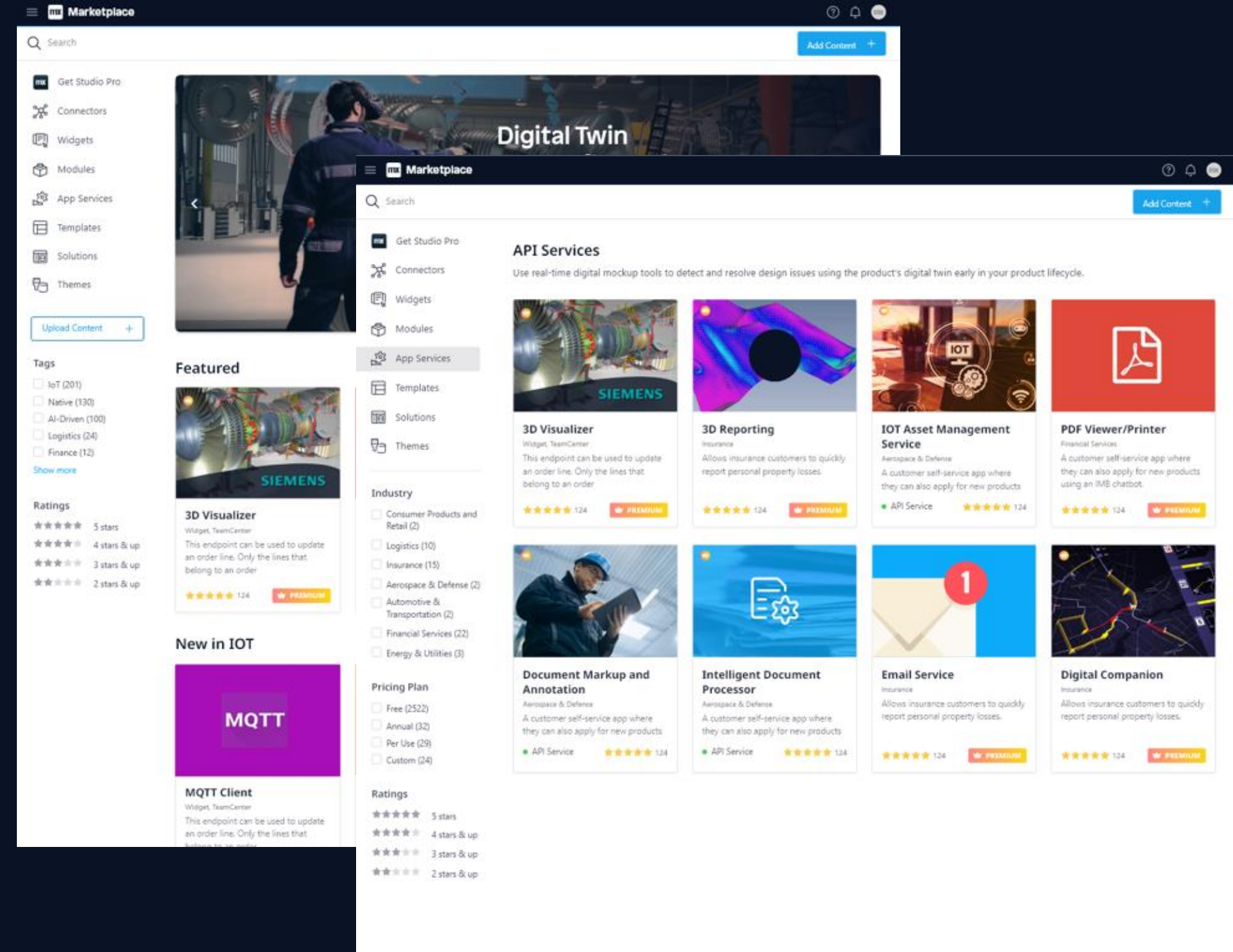
Use C#/JS to add advanced extensions/capabilities to the Mendix IDE itself.

Giving developers a full tailored development experience.

Marketplace

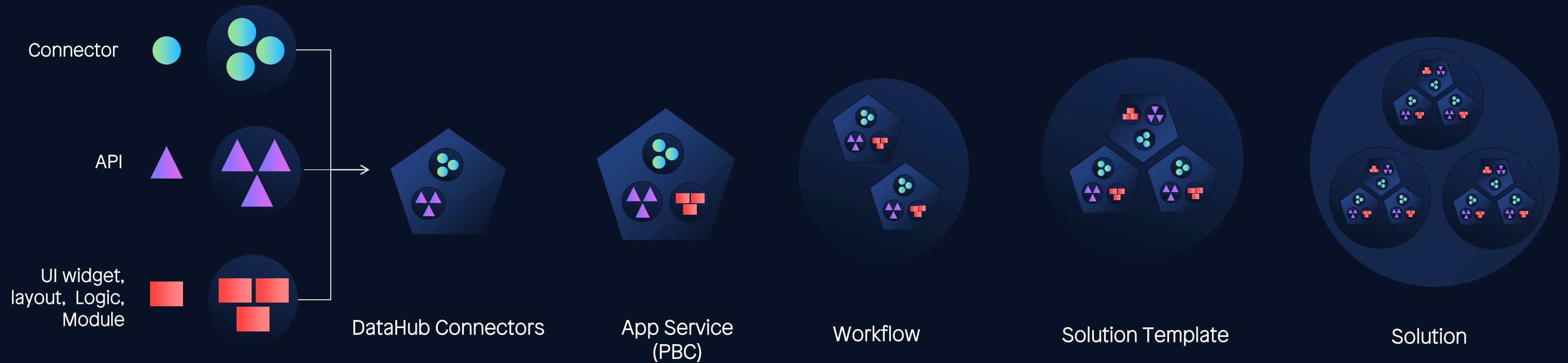
Fast track development with reusable components available on the Marketplace

- Rich repository of reusable components
- Full Apps, Modules, Connectors, Widgets and themes
- Public and Private marketplaces
- Thousands of components available
- Integrated into Studio Pro
- Get informed of updates to components



Content types in the Marketplace

For each Marketplace content type, there's a primary audience and go-to-market approach.



Persona	Maker	IT Leader	Business Leader
Target	Existing Customer	New Prospect	
Motion	Self-service	Enterprise sales	

Mendix Software Development Kit

Scripted access to Mendix app models

- Uses NodeJS supporting Typescript and Javascript scripting
- Full access to app model allowing inspection of and modification of apps
- Requires app repository in Mendix Teamsserver
- Repository branch support

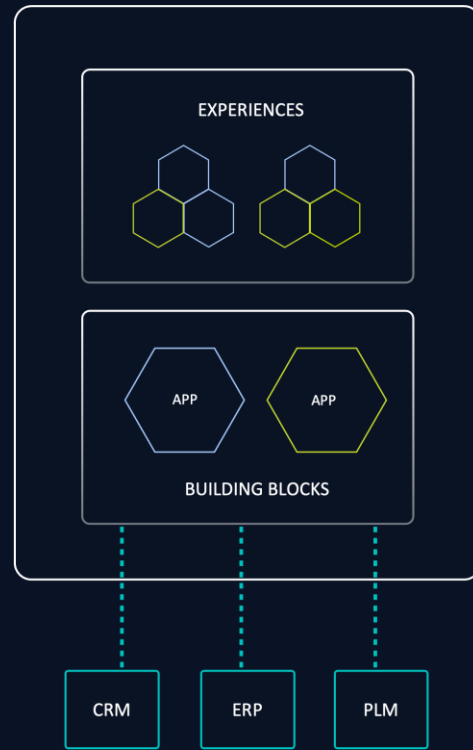
```
1 import { MendixPlatformClient } from "mendixplatformsdk";
2 import { projects, security, domainmodels, enumerations, texts } from 'mendixmodelsdk';
3
4 main().catch(console.error);
5
6
7 async function main()
8 {
9     const client = new MendixPlatformClient();
10
11     // Create the app
12     const app = await client.createNewApp("SDKTestApp", {summary: "Test App created using the Mendix SDKs", templateId: "XXXXXXXXXXXX"});
13
14     console.log("App created with App ID: " + app.appId);
15
16     // Open a working copy
17     const workingCopy = await app.createTemporaryWorkingCopy("trunk");
18     const model = await workingCopy.openModel();
19
20     // Create a new module
21     const module = projects.Module.createIn(model.allProjects()[0]);
22     module.name = "SDKModule";
23
24     // Set up module security
25     const moduleSecurity = security.ModuleSecurity.createIn(module);
26     const adminRole = security.ModuleRole.createIn(moduleSecurity);
27     adminRole.name = "Admin";
28     const userRole = security.ModuleRole.createIn(moduleSecurity);
29     userRole.name = "User";
30
31     // Create the module domain model
32     const domainModel = domainmodels.DomainModel.createIn(module);
33
34     // Make the Order Status enumeration with its values
35     const statusEnumeration = enumerations.Enumeration.createIn(module);
36     statusEnumeration.name = "ENUM_Status";
37
38     const statusEnumerationValue1 = enumerations.EnumerationValue.createIn(statusEnumeration);
39     statusEnumerationValue1.name = "New";
40     const statusEnumerationCaption1 = texts.Text.createInEnumerationValueUnderCaption(statusEnumerationValue1);
41     const statusEnumerationTranslation1 = texts.Translation.create(model);
42     statusEnumerationTranslation1.text = "New";
43     statusEnumerationTranslation1.languageCode = "en_US";
44     statusEnumerationCaption1.translations.push(statusEnumerationTranslation1);
45
46     const statusEnumerationValue2 = enumerations.EnumerationValue.createIn(statusEnumeration);
47     statusEnumerationValue2.name = "Hold";
48     const statusEnumerationCaption2 = texts.Text.createInEnumerationValueUnderCaption(statusEnumerationValue2);
49     const statusEnumerationTranslation2 = texts.Translation.create(model);
50     statusEnumerationTranslation2.text = "On Hold";
51     statusEnumerationTranslation2.languageCode = "en_US";
52     statusEnumerationCaption2.translations.push(statusEnumerationTranslation2);
53
54     const statusEnumerationValue3 = enumerations.EnumerationValue.createIn(statusEnumeration);
55     statusEnumerationValue3.name = "Progress";
56     const statusEnumerationCaption3 = texts.Text.createInEnumerationValueUnderCaption(statusEnumerationValue3);
57     const statusEnumerationTranslation3 = texts.Translation.create(model);
58     statusEnumerationTranslation3.text = "In Progress";
59     statusEnumerationTranslation3.languageCode = "en_US";
60     statusEnumerationCaption3.translations.push(statusEnumerationTranslation3);
61
62     const statusEnumerationValue4 = enumerations.EnumerationValue.createIn(statusEnumeration);
63     statusEnumerationValue4.name = "Completed";
64     const statusEnumerationCaption4 = texts.Text.createInEnumerationValueUnderCaption(statusEnumerationValue4);
65     const statusEnumerationTranslation4 = texts.Translation.create(model);
66     statusEnumerationTranslation4.text = "Completed";
67     statusEnumerationTranslation4.languageCode = "en_US";
68     statusEnumerationCaption4.translations.push(statusEnumerationTranslation4);
69
70     // Create the Order Line Entity and attributes
71     const orderLineEntity = domainmodels.Entity.createIn(domainModel);
72     orderLineEntity.name = "OrderLine";
73     orderLineEntity.location = { x: 100, y: 100};
74     orderLineEntity.documentation = "The Order Line entity created using the Model SDK";
75 }
```



Integration Mendix Connect

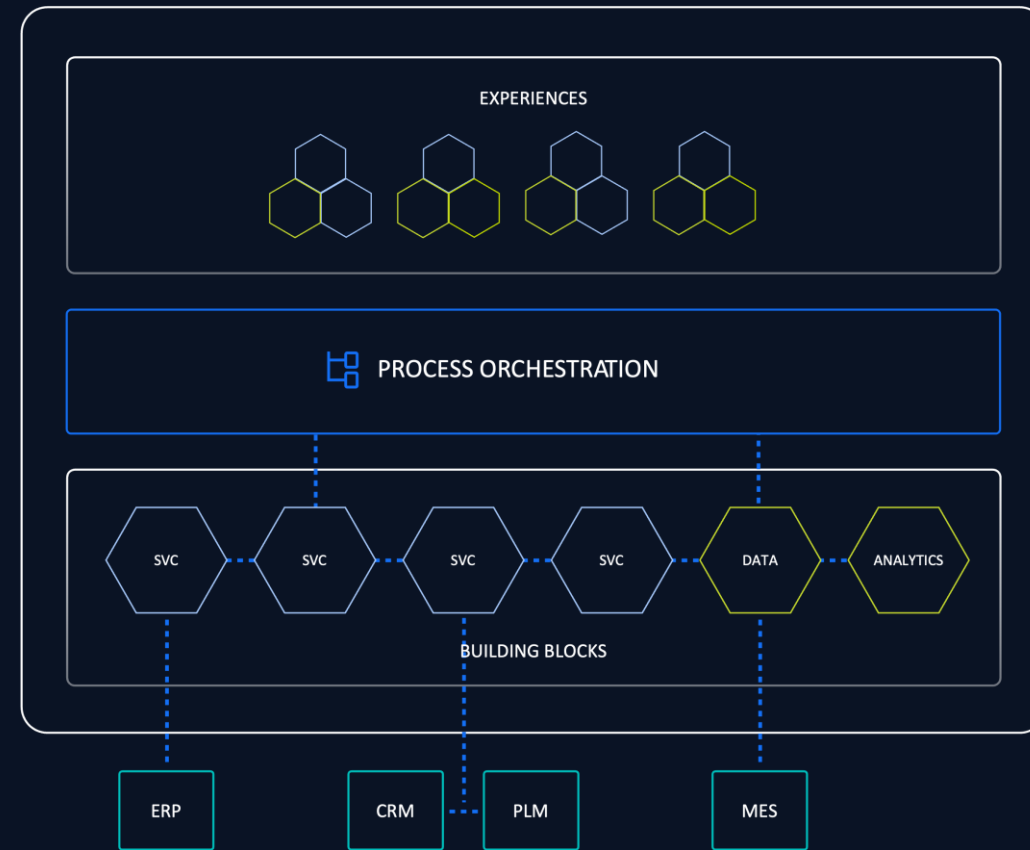


MENDIX CONNECT FOR EVERY STAGE IN YOUR JOURNEY



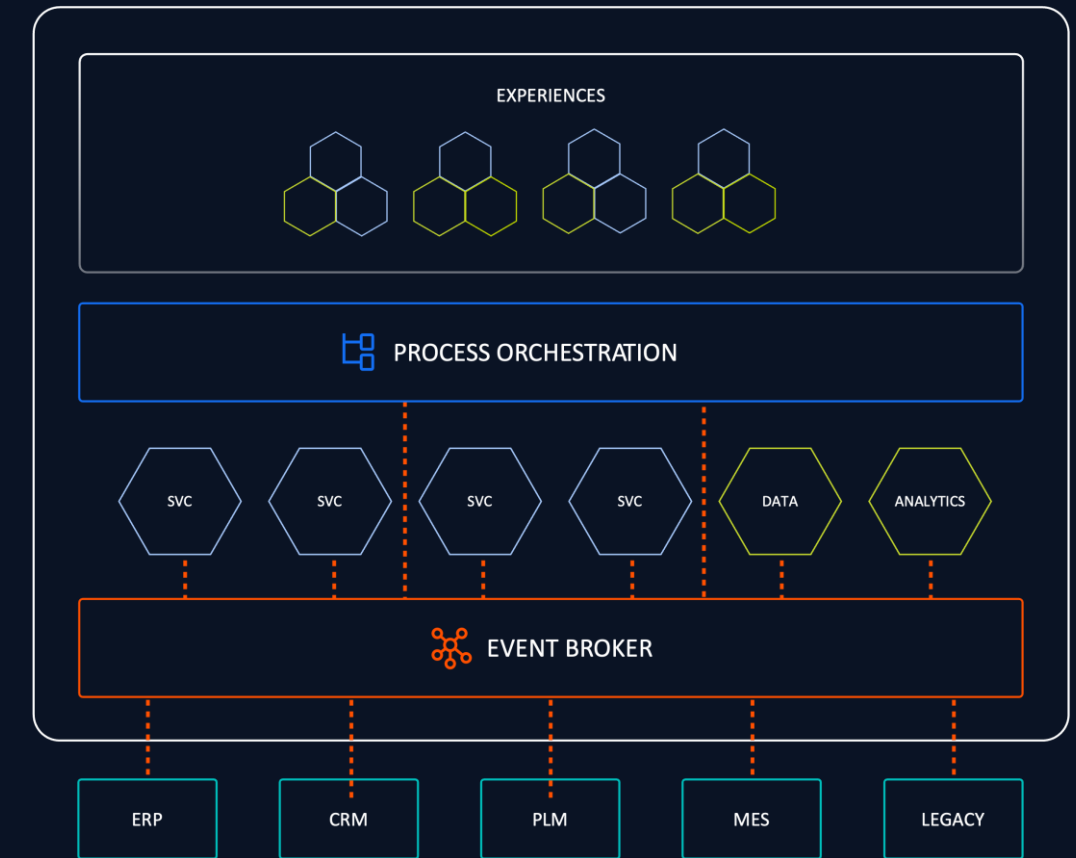
Straightforward Apps

REST Connector
Database Connector
Email Connector
Data Importer
Excel Connector
AWS Connector Suite
BAPI



Microservice Landscape

External Entities
Catalog
API Governance



Event Driven Architecture

Business Events
Event Broker
MQTT Connector

Database Connector

The screenshot shows the Mendix Studio interface with the 'Connect to Database' dialog box open. The dialog is titled 'Connect to Database' and contains the following fields and options:

- Name ***: Timetable
- Database Type ***: Microsoft SQL (selected), MySQL, Oracle, PostgreSQL
- Host ***: mx-mssql-db-1.cro6bmpkrv5q.us-east-1.rds.amazonaws.com
- Port ***: 1433
- Database Name ***: Timetable
- User Name ***: MxAdmin
- Password ***: [masked]

Below the fields, there are two radio buttons: Use connection details and Use connection string. A green bar at the bottom of the dialog indicates 'Connection Successful'. Buttons for 'Test Connection', 'Save', and 'Cancel' are visible at the bottom of the dialog.

The background shows the Mendix Studio interface with the 'App Explorer' on the left, the 'Logic' folder selected, and the 'Properties' and 'Toolbox' panels on the right. The status bar at the bottom indicates 'Ready' and 'English, United States (default)'.

REST Connector

The screenshot displays the Mendix IDE interface with the REST Connector tool open. The main window shows the configuration for a REST operation named "Request Booking".

General Tab:

- Name: Request Booking
- HTTP method: POST
- URL: https://experience104-accp.mendixcloud.com/rest/repairservice/v2/raiserepair/

Request Tab:

- Parameters: Authentication, Headers, Body, Variables
- Query Parameters: A table with columns "Name" and "Value".
- Path Parameters: A table with columns "Name" and "Value".

Response Tab:

- Payload: Data structure preview
- Status: -
- Content: -

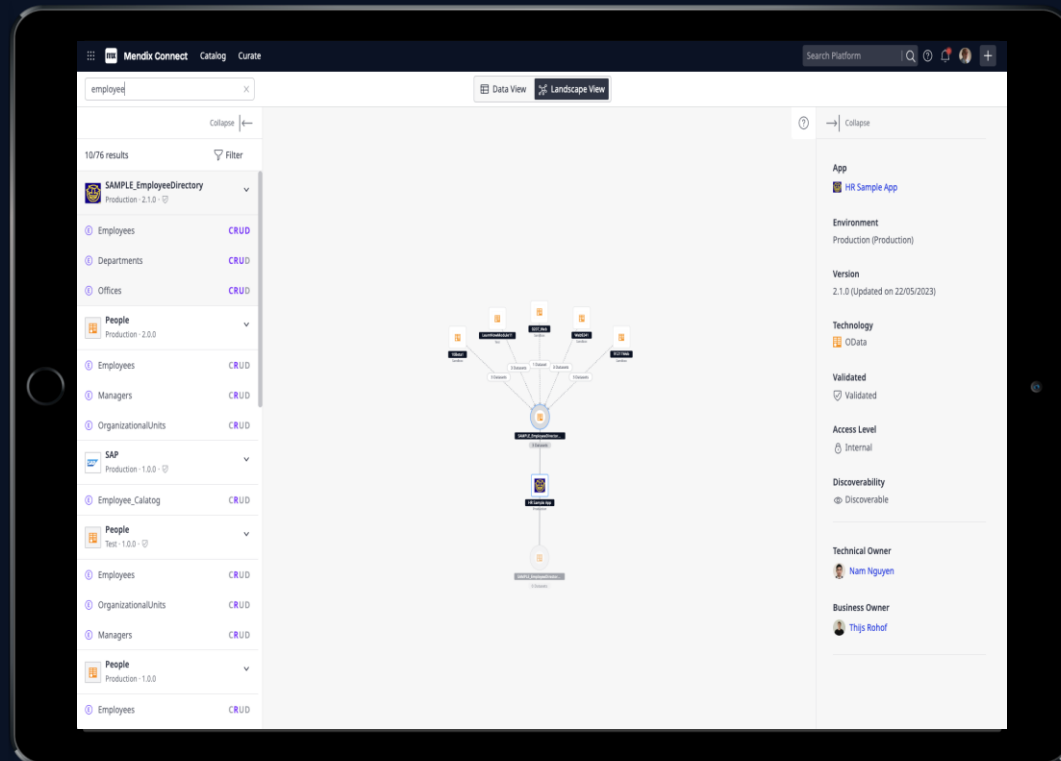
Operations Panel:

Method	Name
POST	Request Booking

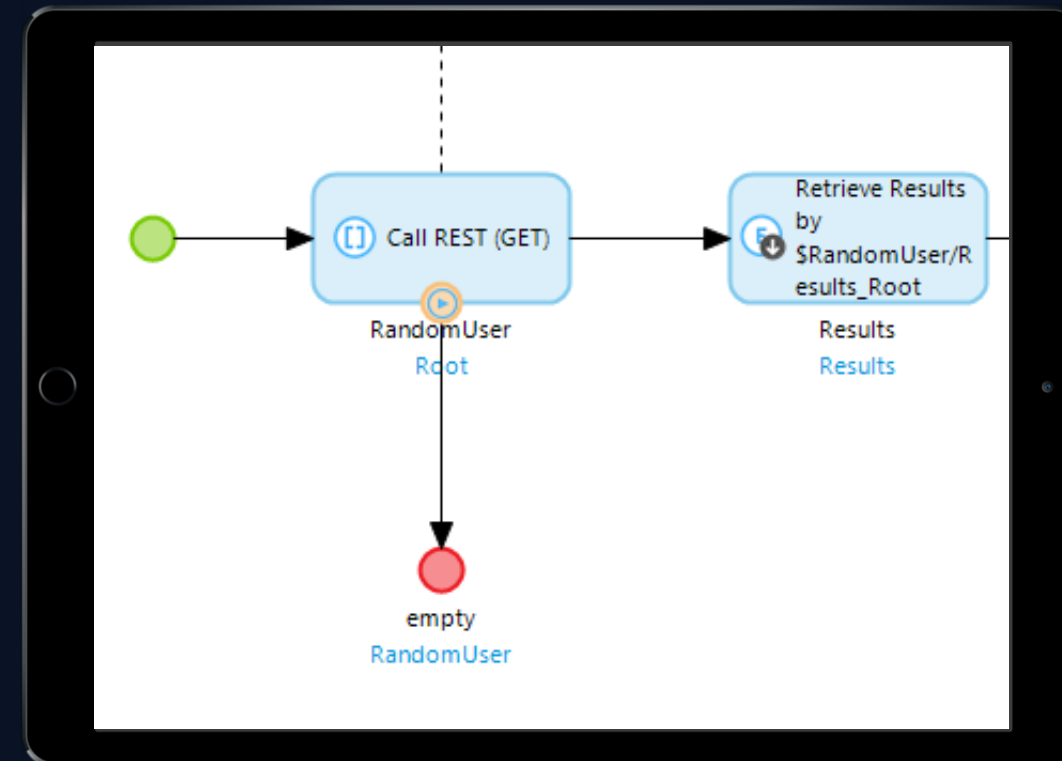
App Explorer:

- App 'Product Returns'
- System
- MyFirstModule
 - Domain model
 - Security
 - Logic
 - BookingSystem
 - CheckBooking
 - ReturnsProcess
 - Pages
 - Products
 - Resources

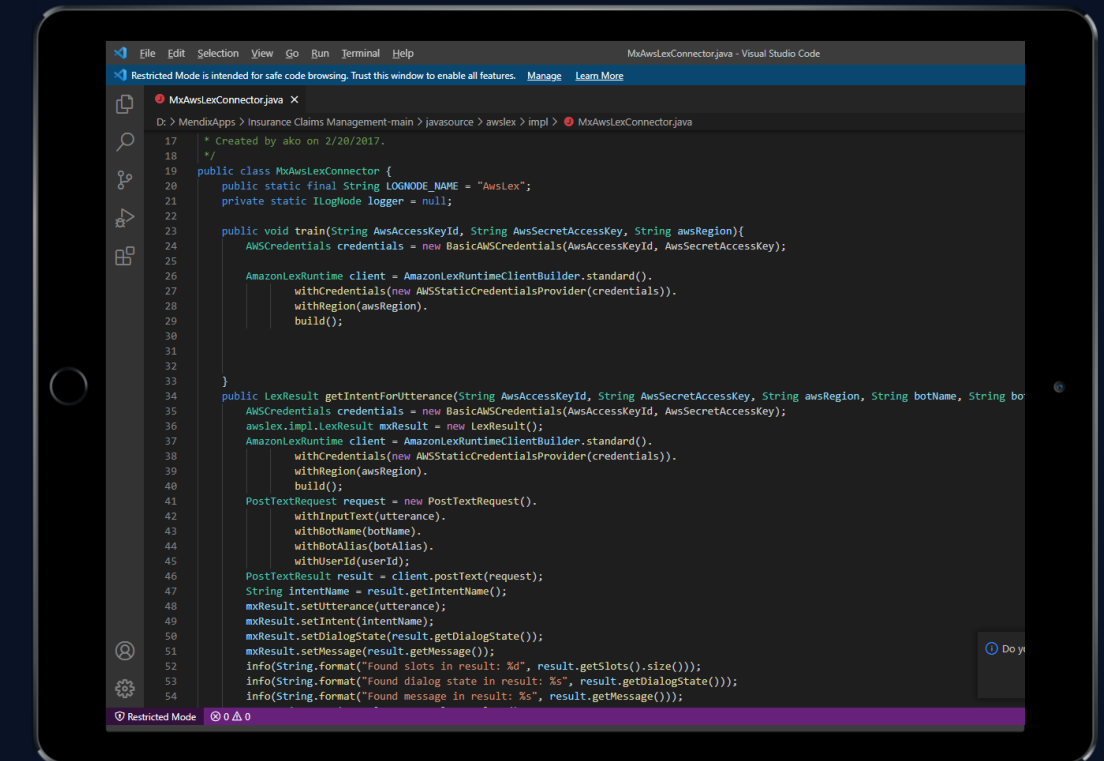
Integration: The Mendix Way



No Code
Mendix Connect

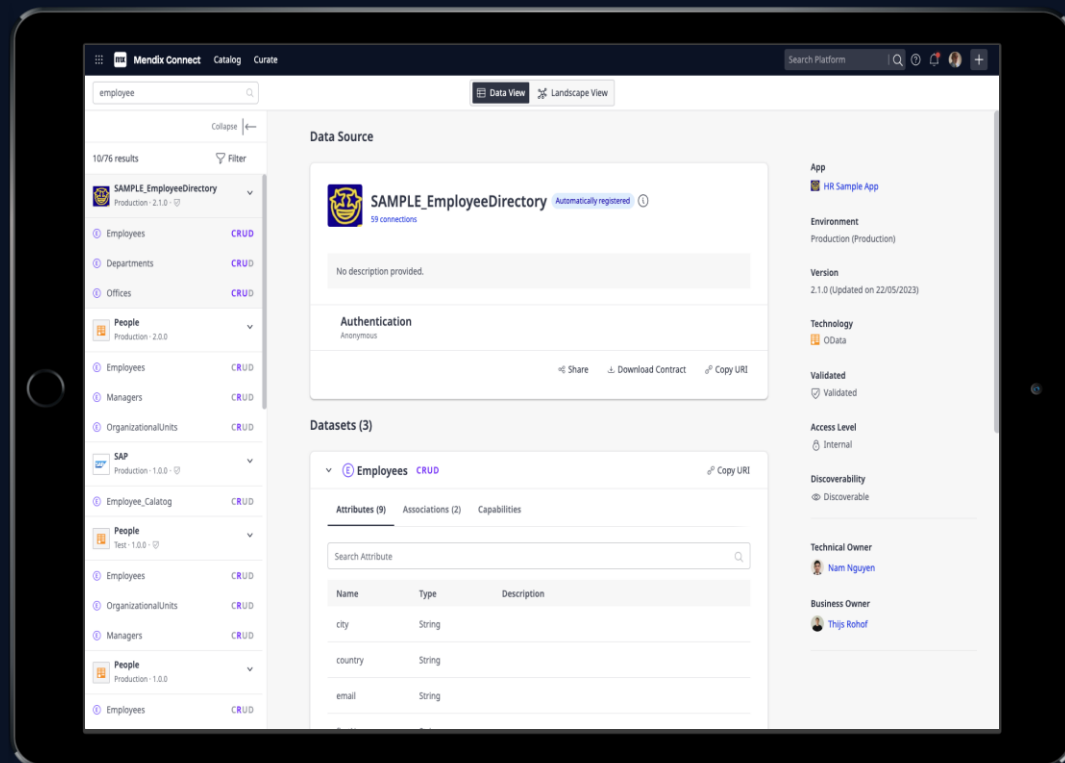


Low Code
Actions / Connectors

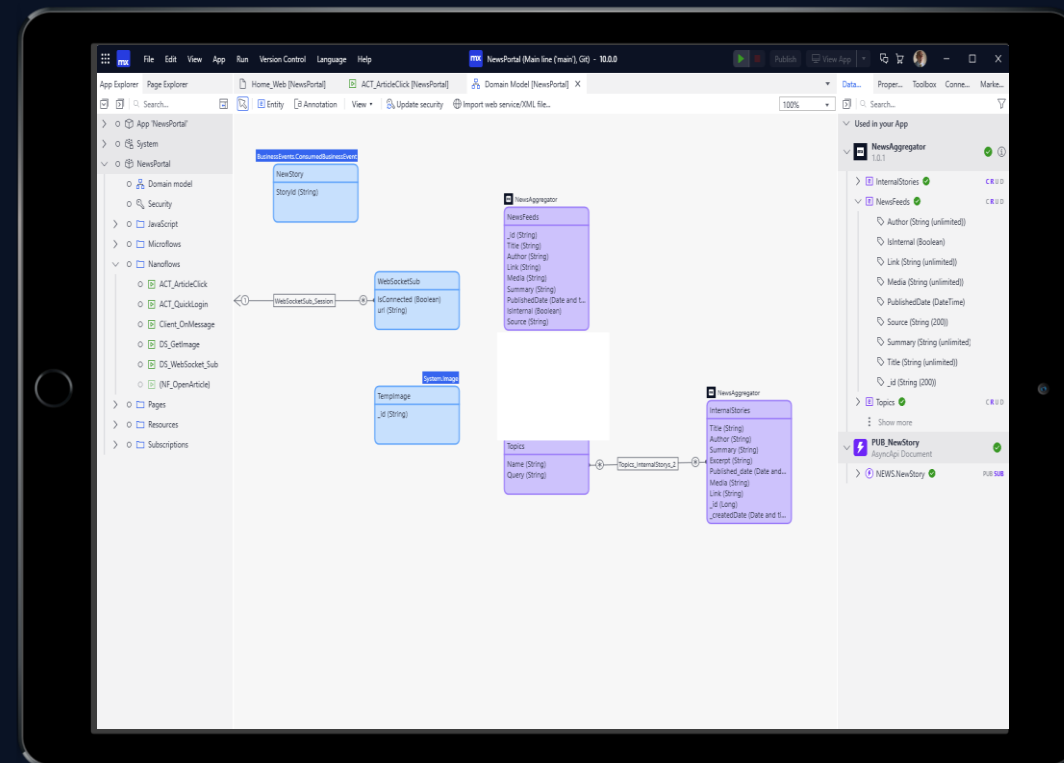


Code
Java & JavaScript

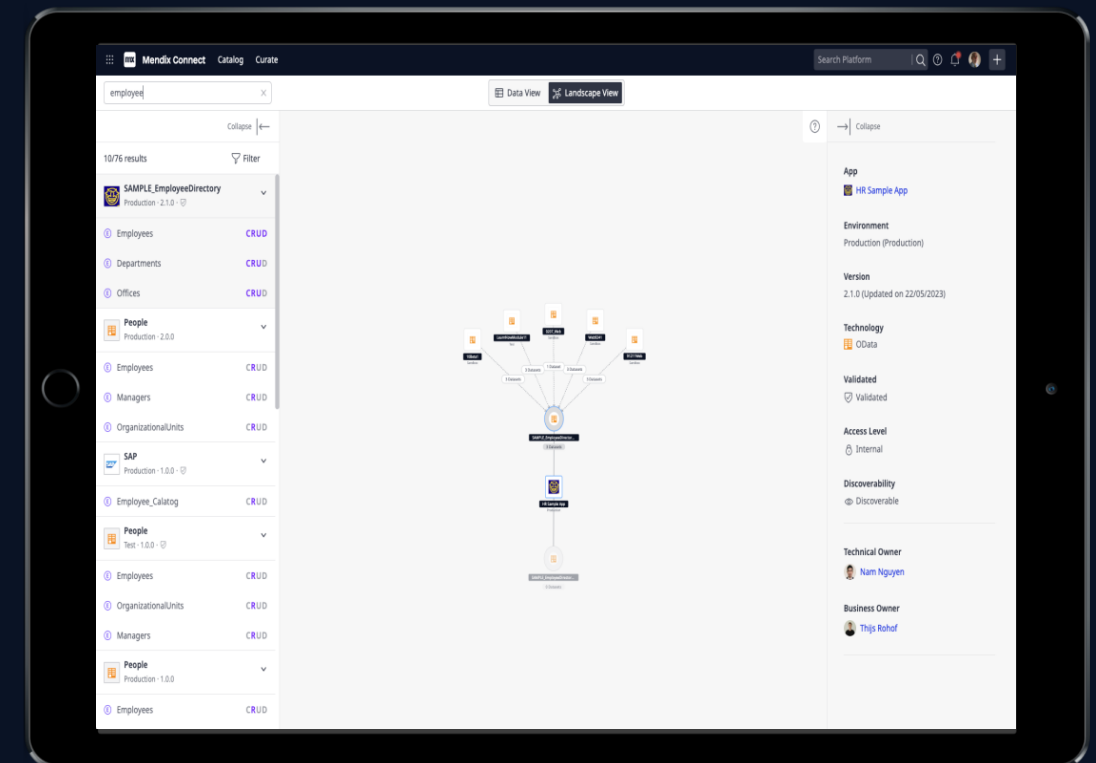
Mendix Connect External Entities



Find & Understand
Mendix Connect
Catalog



Use & Share
External Entities & BI
Access



Manage & Observe
Curation &
Dependency Tools

External Entities



The screenshot displays the Microsoft Dynamics 365 development environment. The main window shows a model diagram with three entities: 'SystemImage', 'ModelInstance', and 'Model'. 'SystemImage' and 'Model' are connected to 'ModelInstance' with a 1-to-many relationship. The 'Model' entity has attributes like Details, ExteriorColour, Wheels, Range, RangeNumber, TopSpeed, RechargeTime, Price, PriceHP, BikeType, SKU, PublicThumbnailPath, FileID, Name, DeleteAfterDownload, Contents, HasContents, and Size. The 'ModelInstance' entity has attributes like ModelID, TripCount, AverageSpeed, MinTirePressure, AveBattPercentage, BikeAge, DaysSinceLastMaintenance, LongestTrip, PredictedMaintenanceStart, PredictedMaintenanceEnd, and NeedsMaintenance. The 'Model' entity also has a 'create new object' button. The left sidebar shows the 'App Explorer' with a tree view of the application structure, including 'Catalogue', 'Resources', and 'LatoBikesUI'. The right sidebar shows the 'Integration' panel with a list of external entities: 'Product Inventory', 'All the countries in...', 'SAP', 'People', 'CustomerApi', and 'ContactHistories'. The 'Product Inventory' entity is expanded, showing its attributes: ID, Title, Description, ReleaseDate, and Dimensions. The 'ContactHistories' entity is also expanded, showing its attributes: ID, ContactHistoryId, Date, Summary, and Notes.

Mendix Connect - Business Events

Low-code approach to event propagation

- Features built into Studio Pro
- Generate Business Events from Publisher App
- Receiving App subscribes to Events
- Events Queued for delivery
- App can publish and subscribe to Events as required
- Uses an Apache Kafka-based broker in the background
- Public Cloud Mendix-supplied broker or Bring-Your-Own

The screenshot shows the Mendix Studio Pro interface for configuring Business Events in a module named "Existing_business_event_service". The interface is divided into several sections:

- General**: Contains a "Service name" field with the value "Business_event_service".
- All business events defined in the service**: A table with columns "Name" and "This app can". It contains one entry: "BE_Event" with the value "Publish, Subscribe".
- Details of business event**: A table with columns "Name" and "Type". It is currently empty.
- Business events used in this app**: This section is divided into two sub-sections:
 - Publish**: A table with columns "Name" and "Entity". It is currently empty.
 - Subscribe**: A table with columns "Name", "Entity", and "Handler microflow". It is currently empty.

There are also "Add", "Edit", and "Delete" icons for each of the tables in the "Business events used in this app" section. A "Re-import AsyncAPI Document" button is located at the bottom right of the "Details of business event" section.

Business Events

The screenshot displays the Mendix Studio interface for configuring Business Events. The main window shows a BPMN diagram with the following flow: Repair (split) -> Get Available Engineer -> Book Repair Service -> Publish New Return -> Check Sales Orders (join). The 'Publish New Return' task is highlighted, and an 'Add Business Event' dialog is open over it. The dialog is in 'Step 2: Edit what other apps can' and shows options for 'Other apps can' (Publish events, Subscribe to events) and 'This Business Events service im' (Publish events, Subscribe to events). A note at the bottom of the dialog states: 'Everything specified above will be included in the AsyncAPI'.

The left sidebar shows the 'App Explorer' and 'Page Explorer' for the 'Product Returns - Mx 10 Launch' application. The 'Domain Model' is visible, containing entities like BookRepairService, CheckSalesOrders, GetAvailableEngineer, Product_Returns, and PublishReturn. The 'Properties' panel on the right shows the 'General' tab for the selected task, with options for 'Annotation', 'Decision', 'Parallel split', 'Jump', 'Wait for notification', and 'End'.

The bottom status bar shows 'Ready' and 'English, United States (default)'. The top status bar shows 'Product Returns - Mx 10 Launch (Main line ('main'), Git) - 10.0.0'.



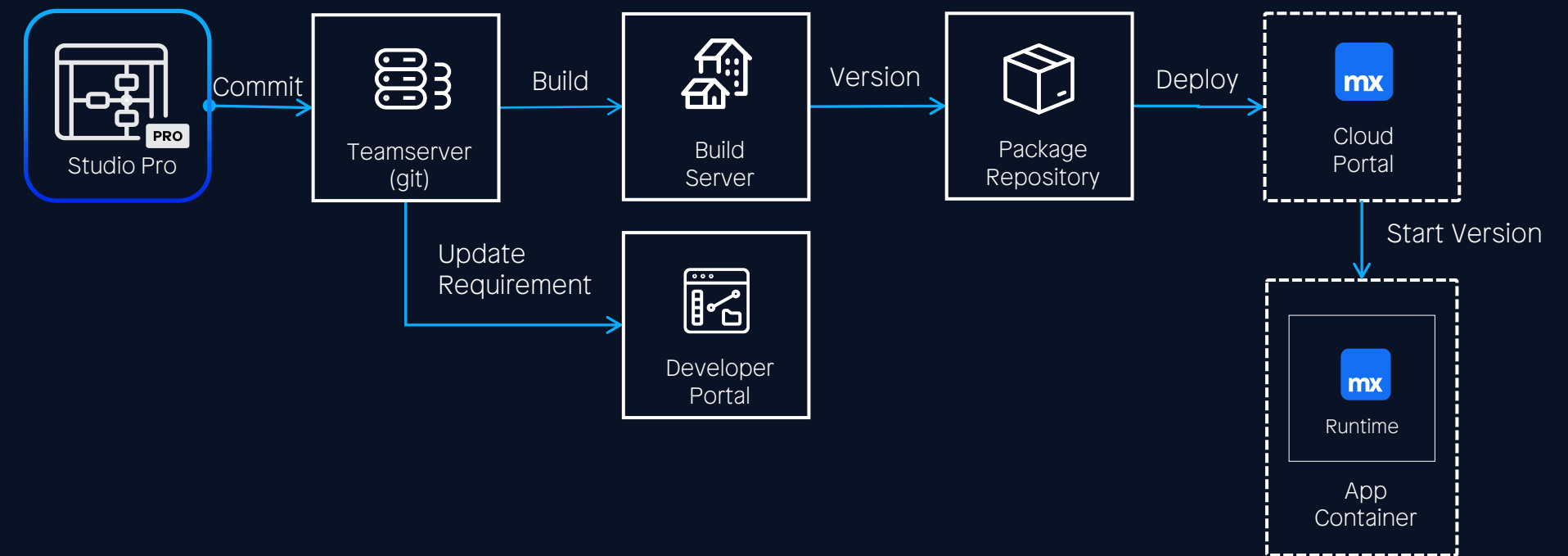
CI/CD

Customisable development pipeline management

Mendix Low Code CI/CD

The simplest and easiest way to get started with Low-Code Development.

- One-Click Deployment
- Cloud Services for:
 - Release Management
 - Package storage
 - Staging
 - Version Control
 - CI/CD





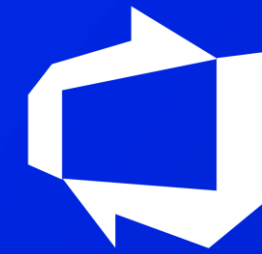
Choose how you CI/CD

Your Pipeline + Mendix Platform

- Build your own process around our services
- Open APIs to interact with Mendix Platform
- Easily connect to our version control

Your Pipeline + Infrastructure

- Documented examples on how to use popular toolchains
- Deploy to your choice of infrastructure
- Leverage your Version Control



Azure DevOps



Bamboo

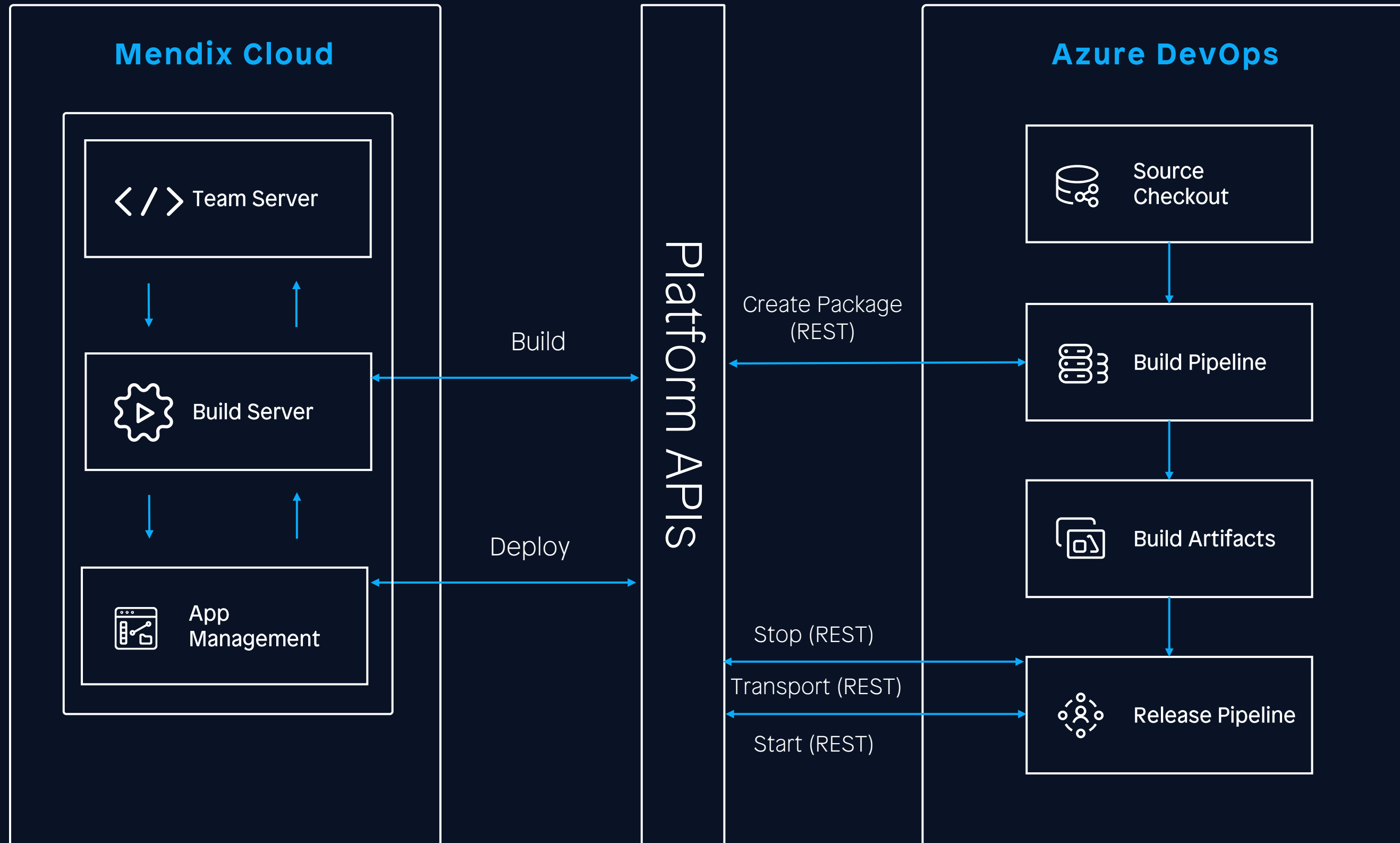


Jenkins

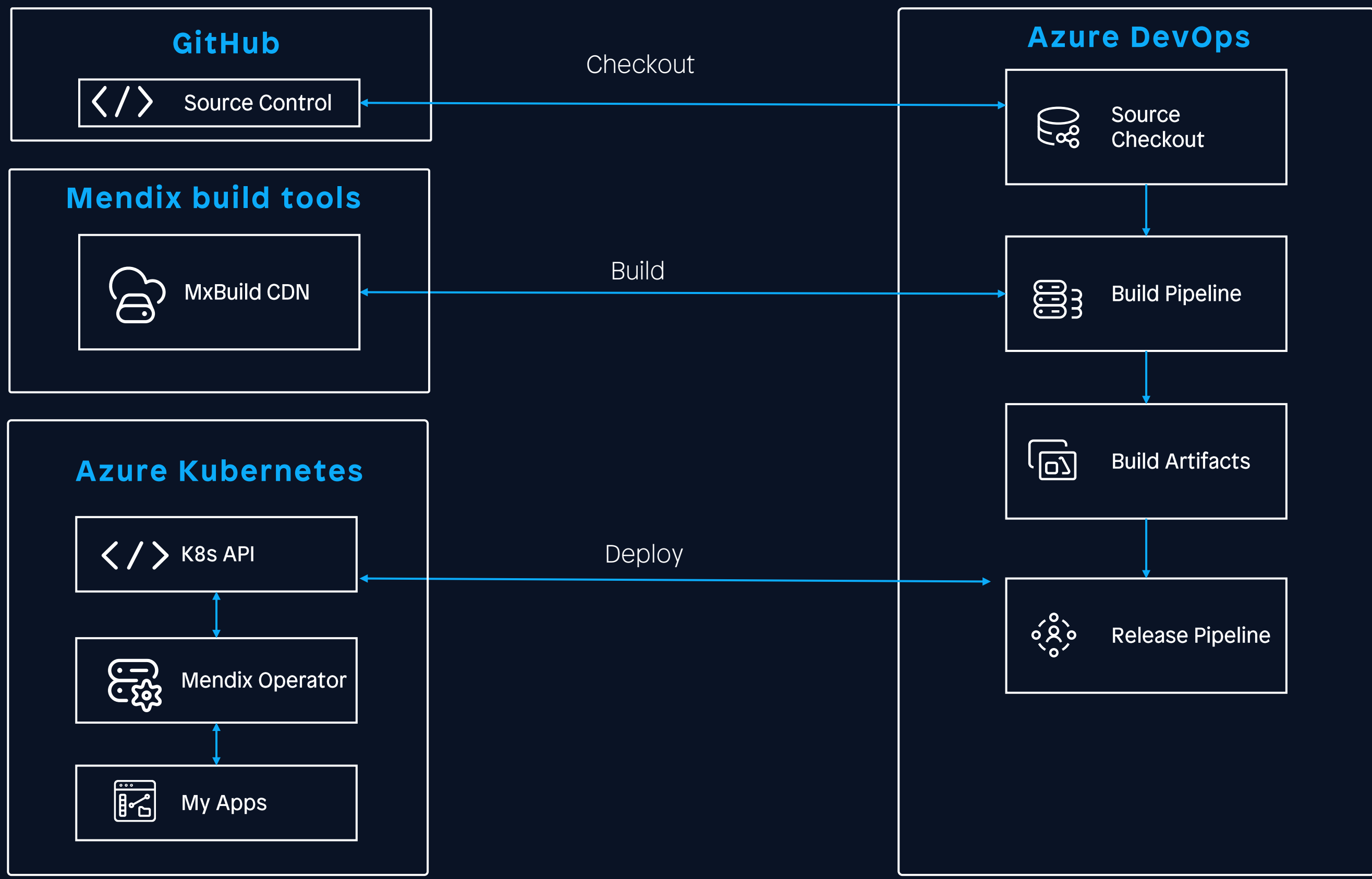


GitLab

Example Architecture – Mendix Cloud, Team Server & Azure DevOps



Example Architecture - Mendix for Private Cloud, GitHub & Azure DevOps

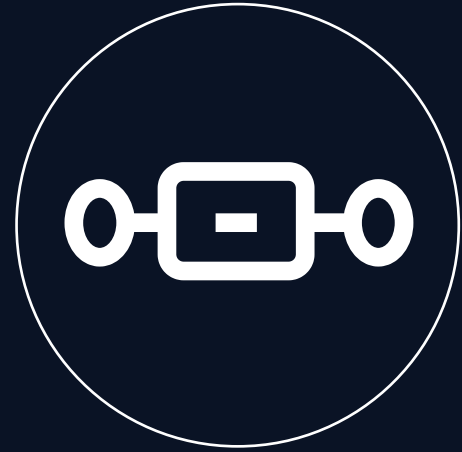




Testing



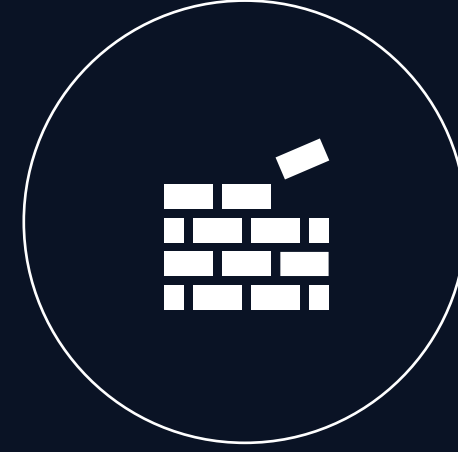
Flavours of Testing



Unit



Quality



Functional



Performance

Unit Testing

Low-code approach to Unit Testing

- Build tests using Microflows
- Dedicated UI to see passed/failed tests
- Connect into CI/CD pipeline
- Available via the Marketplace

Build your own with our Open API

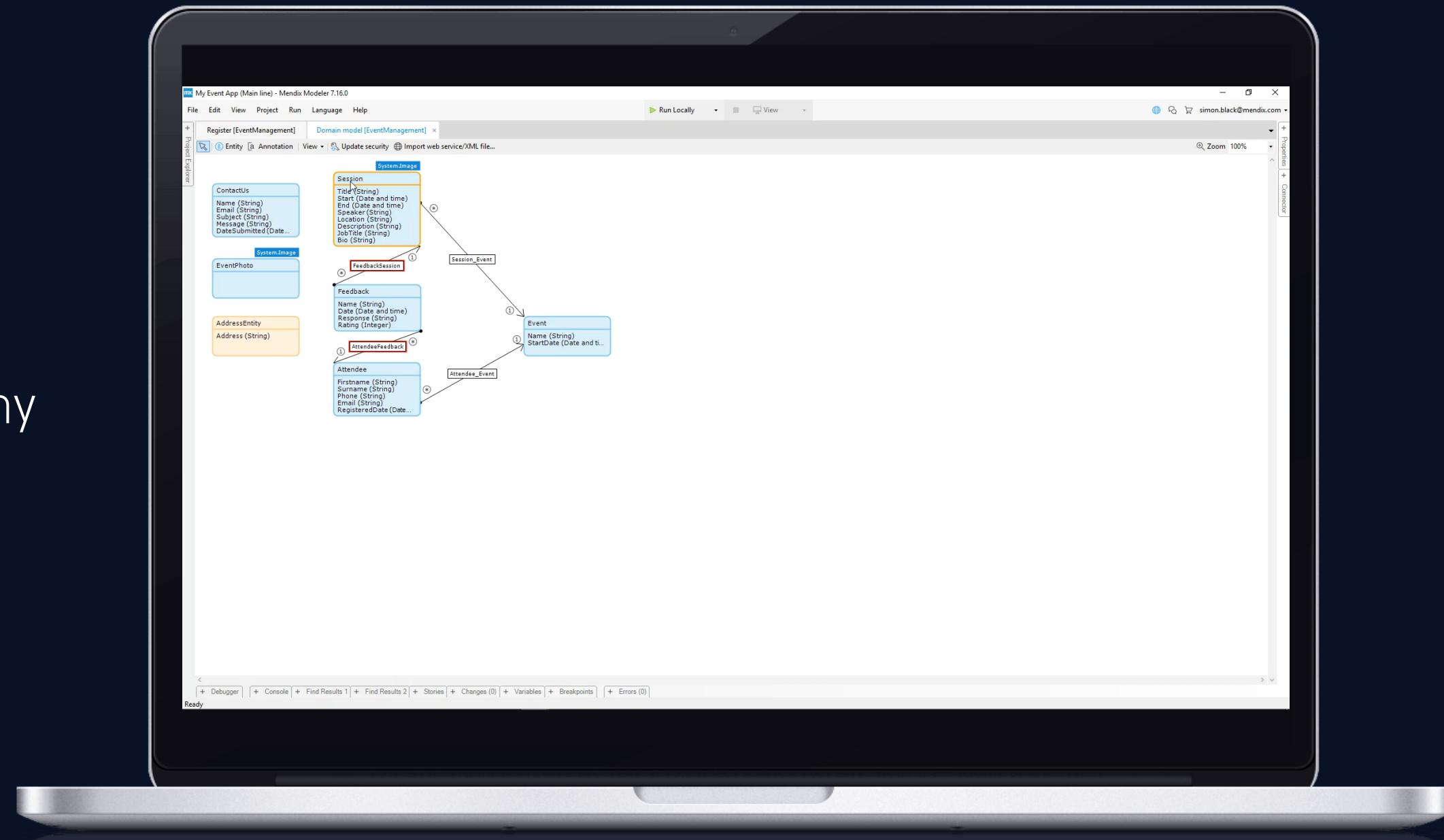
- Leverage Java and JUnit to build your own tests
- All model artifacts available using the Java runtime APIs



Quality Testing - Consistency Checking

Ensuring Consistency

- Mendix typically performs 10–20 times more consistency checks than compilers check in traditional programming platforms.
- Consistency checks are divided into errors, warnings and deprecations.
- You cannot run an application that contains any error consistency checks.
- Checks will be performed to ensure:
 - Navigation
 - Security
 - Logic
 - Version support

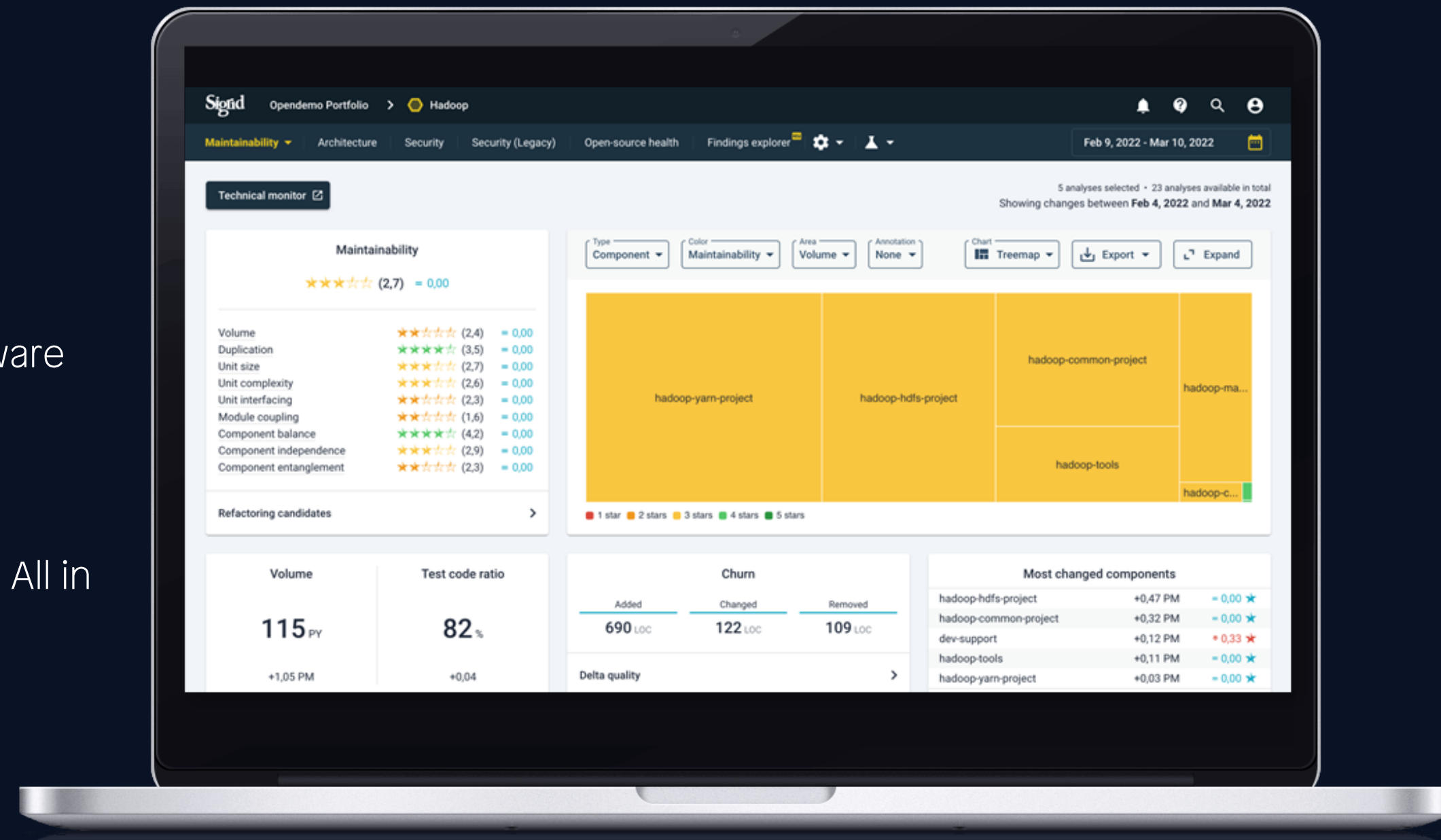


Quality & Security Management (QSM)



Run static analysis on your application models to ensure maximum maintainability, security and reusability.

- QSM software gives continuous insight in code quality & security, on both a portfolio, and system level.
- Daily 1-5 stars rating of applications maintainability
- Applications are benchmarked against thousands of software projects
- Provides continuous security insights for clients with full portfolio scanning, deep dive analysis and guidance to fix. All in one platform.





Functional Testing - Frameworks



Web Testing

Web Apps are optimized to work with the Selenium testing framework.



Native Mobile Testing

Mendix Native Apps are optimized to work with the Appium testing framework.

Testing Platforms

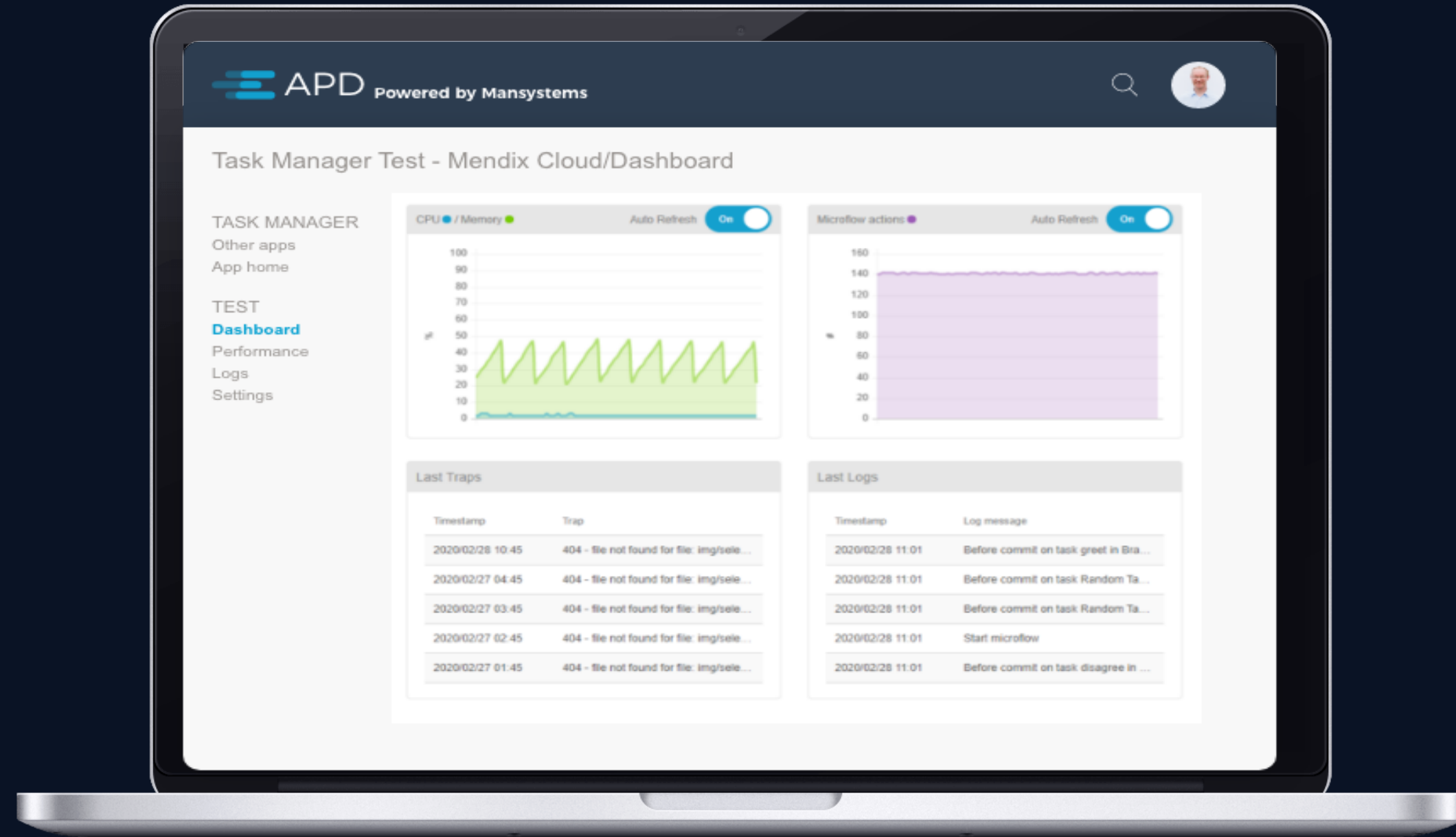
Leverage testing platforms such as BrowserStack, SauceLabs and many others



Performance Testing - Application Performance Diagnostics (APD)

Application Performance Diagnostics (APD) is a cloud service optimized for the Mendix apps. It provides deep analytics about the performance Mendix Apps.

- Teams can analyze the performance of the Mendix built applications
- APD analyzes all activities in the application, including underlying functions and user behaviour.
- Simulate load and evaluate the application against performance requirements





Mendix Assist: Best Practice Bot

An AI Driven virtual co-developer that assists you in improving the performance of your app by inspecting your app project model against Mendix development best practices in real-time.



1 Detect and Pinpoint



Detection Assist

2 Why an issue and How to fix



Recommendation Assist

3 Fix it for me!



Auto-fix Assist

Built using:

Statistical Analysis of the tens of thousands of Mendix models to find common anti-patterns & Development best practices of Mendix Expert Services



Deployment

Finally realizing your Multi-Cloud Deployment ambitions



Cloud Native By Default

Run cost effectively and efficiently

- Minimize compute spend
- Auto-scaling to respond to user load

Ensure safety, security, and reliability

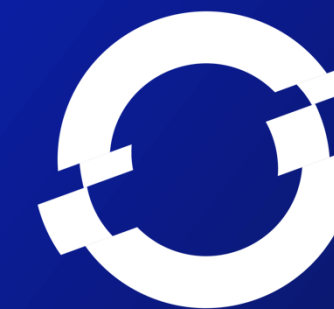
- Maximize uptime with resilient architecture
- Secure application runtime



kubernetes



docker



OPENSIFT



Multi-Cloud Portability

Build once, deploy anywhere

- Cloud portable out of the box
- Leverage existing investment
- (Virtual) Private Cloud or On-Premises

Future proof deployment strategy

- Deploy where you need to today
- Migrate without expensive rearchitecting



Google Cloud



Mendix Cloud: Key features

- Ops Dashboard
- Provisioning
- Configuration
- Staging
- Backups
- Monitoring & Alerting
- Remote debugging
- Log management
- Full API support for CI/CD integration
- Flexible environments
- Choice of regions
- External Monitoring integration

The screenshot displays the Mendix Cloud interface for an application named 'NewsAggregator'. The interface is divided into several sections:

- Metrics:** Shows 'Application Statistics' with a line chart titled 'Number of handled external requests'. The chart displays various request types over time, with a peak around 15:00. The y-axis represents 'Requests per second' ranging from 0.00 to 0.293.
- Environments:** A table listing deployment packages and their status. It includes columns for 'Deployment Package', 'Version', 'Date', 'Uploaded By', and 'Expiry date'. Three packages are listed, all with a green checkmark indicating they are ready for deployment.
- Activity:** A log of recent events, including 'Production' being started, version transport, and access rights being granted to 'Service Evangelists'.

The left sidebar contains navigation options under 'COLLABORATE' (Buzz, Stories, Team, Feedback, Mini Surveys, Documents, Team Server, General Settings) and 'DEPLOY' (Environments, Metrics, Logs, Backups, Alerts, Mobile App, Webhooks). The 'Metrics' section is currently selected.

Mendix Cloud: Enterprise grade quality

Fully HA

- SLA: 99,95%
- Actual: 99,99%

Certified

- ISAE Type 2 / SOC 1 / SOC 2 certified
- ISO 27001:2013 certified

Pen tested against

- OWASP
- ISSAF
- OSSTMM

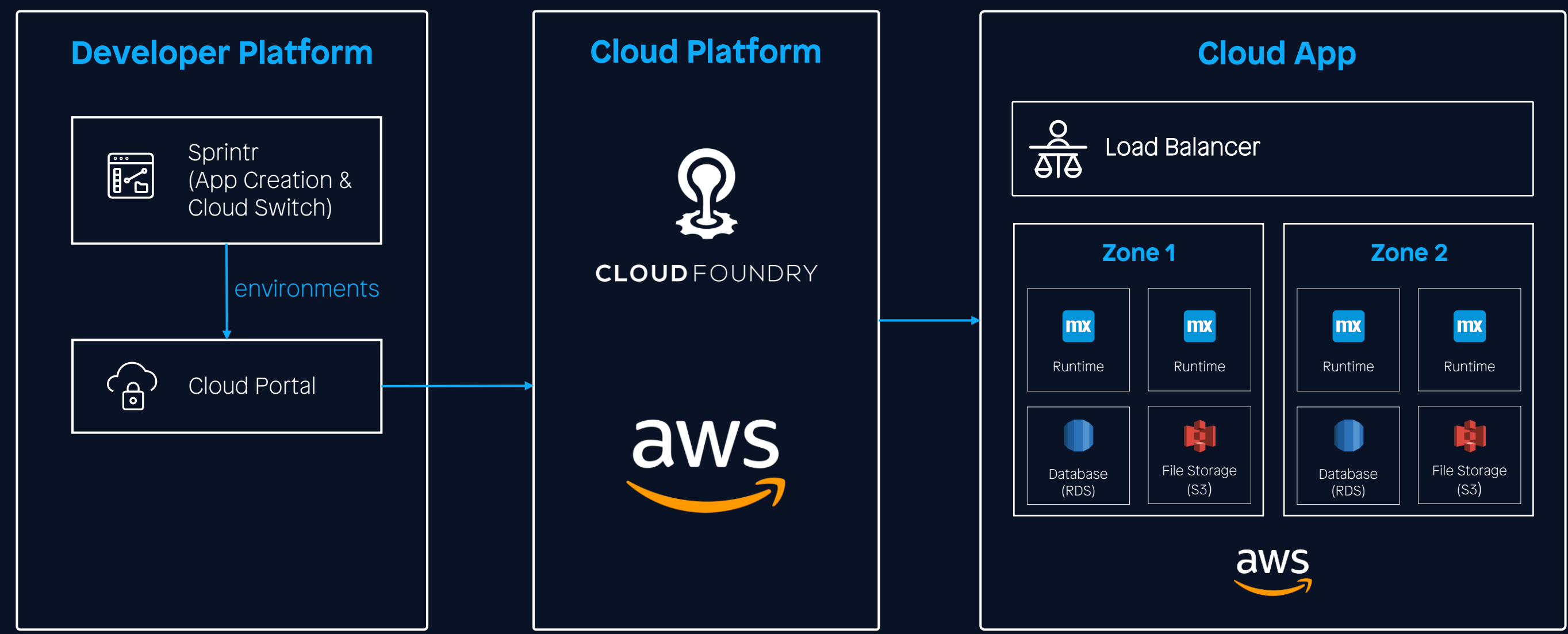
Access Management

- White listing
- Client Certificate control
- Custom Headers

The screenshot displays the 'Acceptance Environment Details' page in Mendix Cloud. The page has a navigation bar with tabs: General, Model Options, Network, Loglevels, Runtime, Maintenance, and Tags. The 'General' tab is active. Below the navigation bar, there is a table with columns: Status, Running since, Name, Url, Project ID, Environment, Custom domains, and Java Version. The 'Status' column shows a green checkmark. The 'Running since' column shows a green checkmark. The 'Name' column shows '1 / 1'. The 'Url' column shows '2 / 2'. The 'Project ID' column shows '2 / 2'. The 'Environment' column shows 'AdoptOpenJDK Java 11'. The 'Custom domains' column shows 'The environment has no custom domain configured'. The 'Java Version' column shows 'AdoptOpenJDK Java 11'. On the right side of the page, there is an 'Actions' section with buttons: Restart Application, Stop Application, Show Logged in Users, Change Admin Password, View Live Log, and Show Debugger Information. A 'Change Scaling' dialog box is open in the center of the screen. The dialog box has a title bar with a close button (X). It contains two sliders: 'Instances' with a value of '1 / 1' and 'Memory per instance' with a value of '2 / 2'. To the right of the sliders is a circular gauge labeled 'Total Allocated Memory' showing '2/2GiB'. At the bottom of the dialog box are 'Cancel' and 'Apply' buttons.



Mendix Public Cloud - Architecture



Multi-cloud - Single Experience

Capabilities

- 1-click deploy to Mendix Cloud, SAP Cloud Platform, IBM Cloud and other Cloud Foundry- or Docker/Kubernetes-based (virtual private) clouds
- Cloud portability of application workloads to cloud of choice
- Environment configurations options





Benefits

- Freedom of choice to deploy in customer's cloud of preference
- No cloud lock-in
- Choose how each app is deployed

Cloud Settings

Select on which cloud platform you want to deploy your app. You can always switch to a different platform at a later time. The Mendix Cloud is always available to you to deploy to. Depending on your license you will be able to deploy your app as either a Free or a Premium App. If you select one of the other cloud platforms, you may need to provide your credentials for that provider.

Select your Cloud

-  **Mendix Cloud**
Selected
-  **SAP BTP**
Select
-  **IBM Cloud**
Select
-  **Mendix for Private Cloud**
Select

Deploy using the Mendix Cloud

You are using a Mendix Free App

Upgrade to a premium deployment environment to take advantage of the full capabilities of the Mendix Platform. Read about all the capabilities Mendix has to offer [here](#).

[Upgrade now](#)

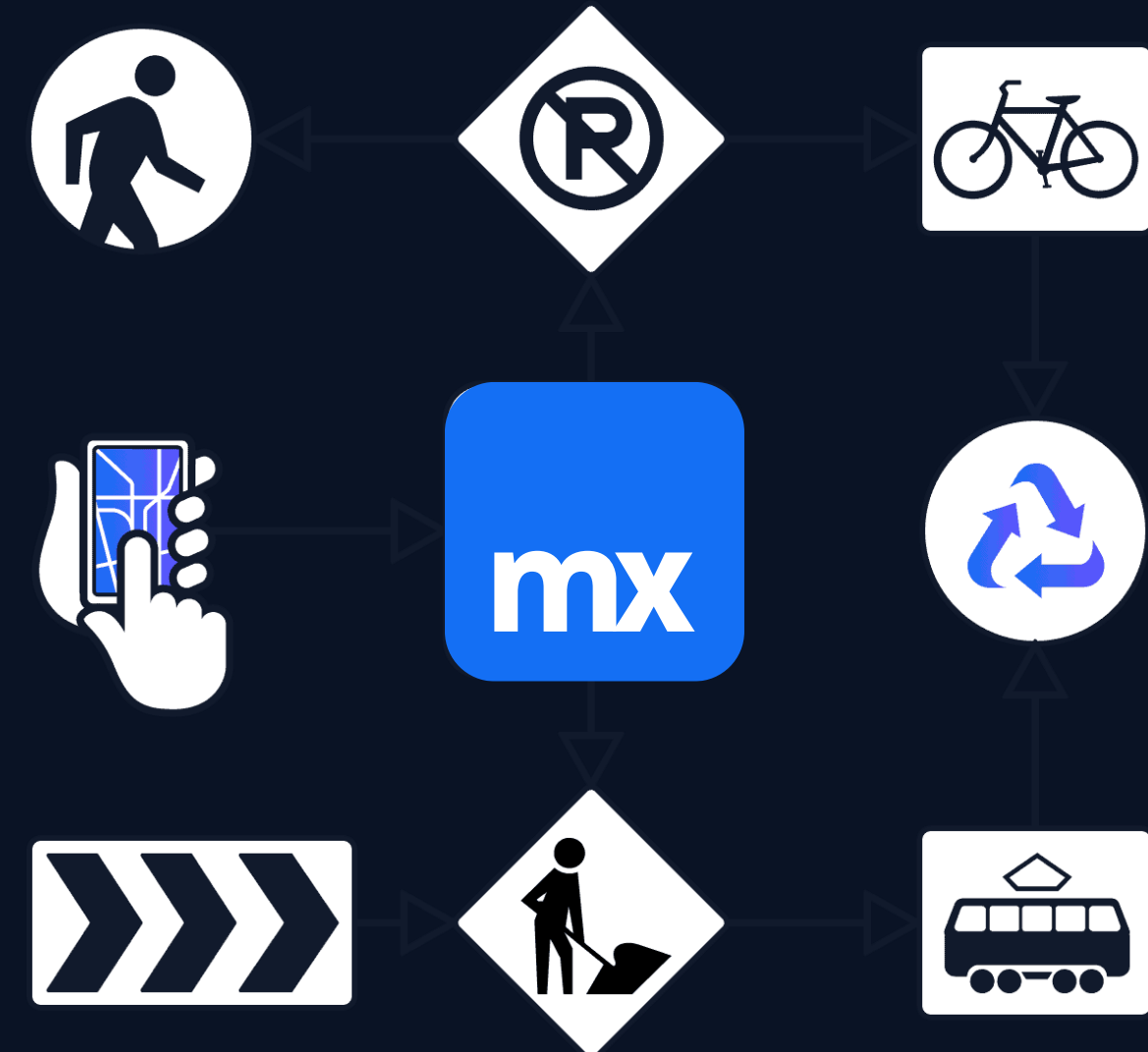
Mendix Cloud for Government

Capabilities

- Automate complex business processes, workflows, and case management to improve operational efficiency
- Build mobile and web applications that provide rich user experiences
- Modernise enterprise applications within weeks compared to months

Benefits

- Optimised for federal government agencies to develop apps securely hosted on AWS GovCloud
- Mendix on the FedRAMP Marketplace
- Support from Siemens Government Technologies





Mendix Multi-Cloud Options

Connected

 MX Cloud

 MX Cloud Dedicated

 Mx for Private Cloud

 SAP BTP

 Mx China Cloud
Tencent Cloud



Disconnected

 Mx for Private Cloud

 On-Premises

 SAP BTP

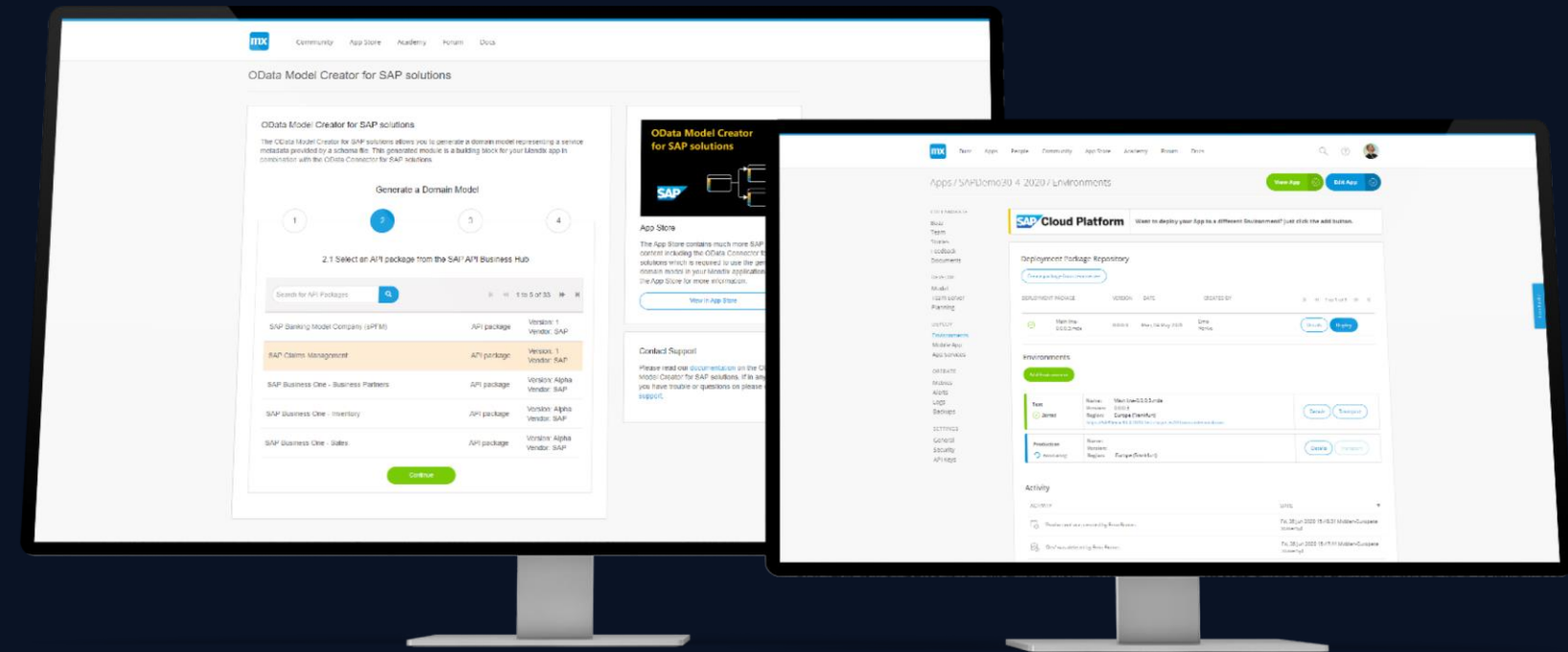
 Server-based / Edge

 STACK IT

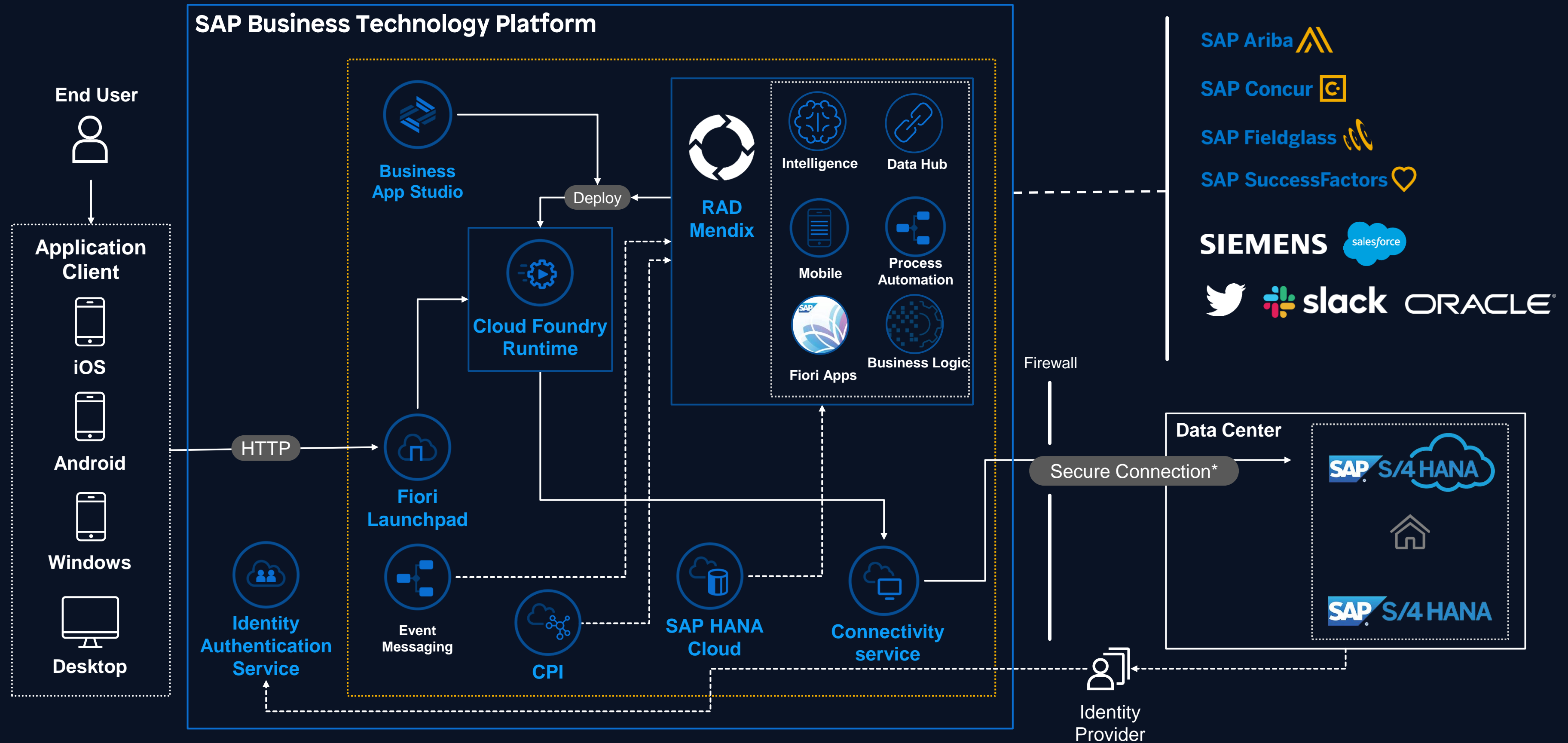
SAP Rapid Application Development by Mendix

Mendix is the only low-code platform that is an SAP Solution Extension:

- Integrated Deployment Process supporting the entire Application Lifecycle
- Runs on SAP Cloud Platform with 1-click
- Offers deep and rich integration with SAP products and services
- SAP Hana DB support
- Joint development roadmap
- Reseller agreement to simplify buying process
- Leverage SAP Fiori Design System
- Is Open, Extensible and Secure on all levels



SAP Rapid Application Development by Mendix Architecture



- SAP Ariba
- SAP Concur
- SAP Fieldglass
- SAP SuccessFactors
- SIEMENS
- salesforce
- slack
- ORACLE

*Connection through whitelisted APIs or Secure tunnel

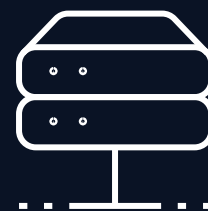


Mendix for Private Cloud



Only Low-code Application Platform on Kubernetes

- Low-Code/Ops Application Lifecycle Management
- Developers build and deploy without Kubernetes expertise
- Simple One-Click Deployment



Direct access to Private Cloud infrastructure

- Control database, storage, and infrastructure
- Observable logs and metrics
- Manage cluster constraints and events

Private Cloud - Architecture

Mx Kubernetes Operator

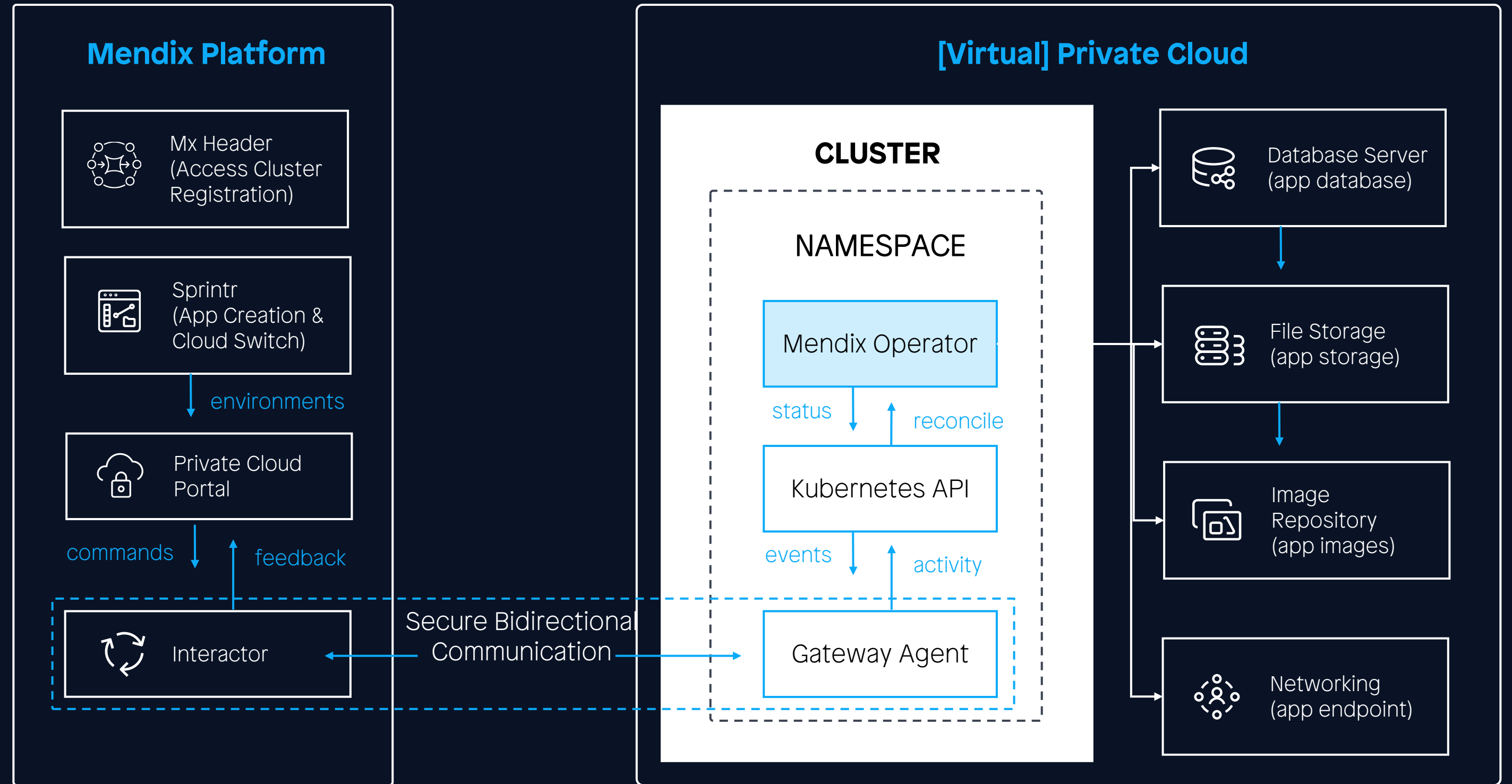
Automated App Lifecycle: build, deploy and provision the database and file storage per app

Interactor / Gateway Agent

Secure connection from private network to Mendix network

Private Cloud Portal

Mendix Deployment portal and Cluster registration portal





Mendix China Cloud: Key features



A dedicated platform & cloud for mainland China

The Mendix China Cloud offers a complete platform & deployment facility from within mainland China. No data-transfers abroad or outside dependencies to ensure privacy and compliance.



Tencent Cloud

A robust and reliable IaaS partner

To offer cloud services in China, Mendix has partnered with Tencent Cloud, a globally leading technology firm that is the premier domestic IaaS provider in China.



A secure and private deployment facility

Mendix China Cloud uses proprietary Mendix for Private Cloud technology to keep customer workloads private and secure. Each customer or tenant is provisioned its own separate deployment facility.

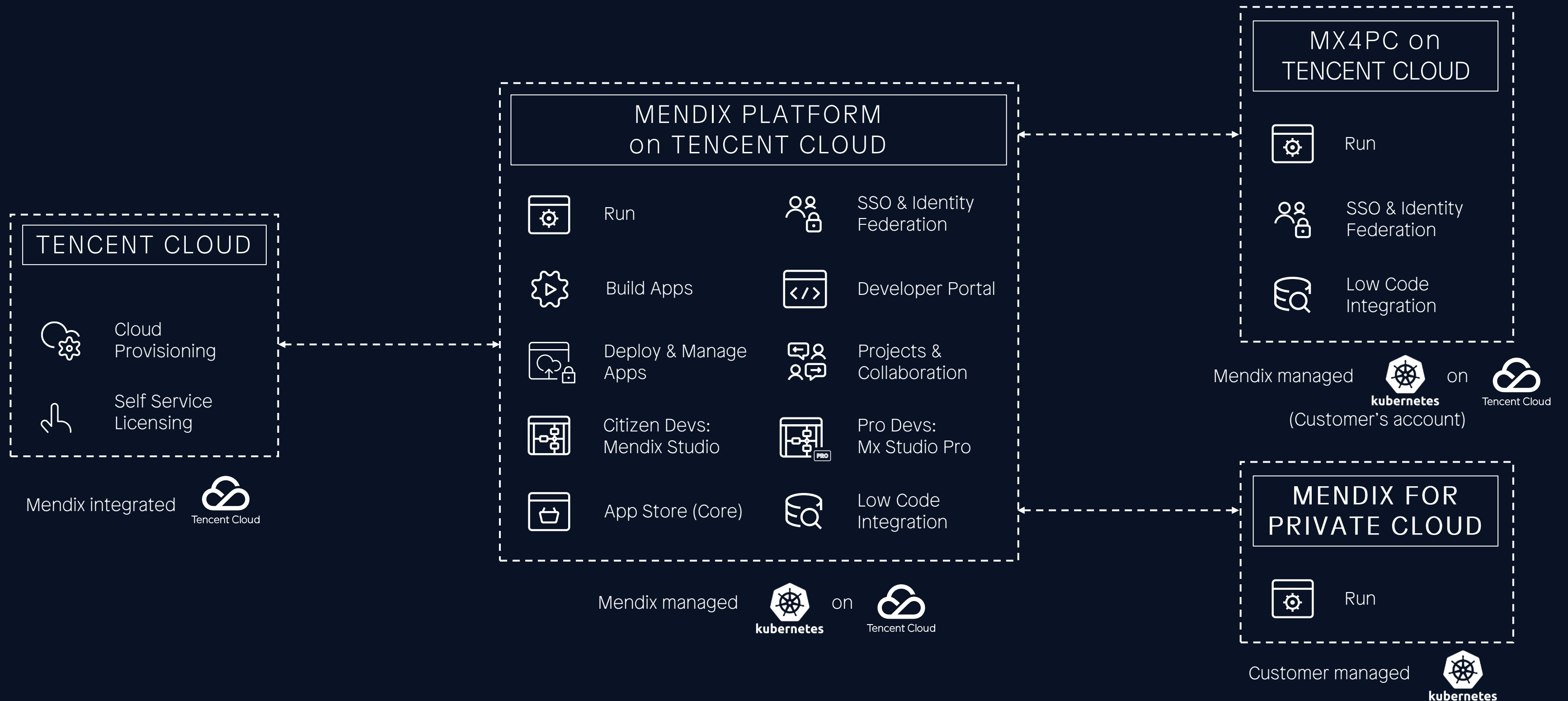


Easy self-service for licenses and resources

With integrations into Tencent Cloud, easily purchase Mendix licenses, and upgrade or purchase additional IaaS resources through self-service. No wait queues or tickets, simply click and go.

Mendix China Cloud

Capabilities Landscape CQ4 2021 End State – Mendix on Tencent





Monitoring

Monitor performance and data usage



Open Telemetry

Micrometer

The Mendix Runtime environment leverages Micrometer, a vendor-neutral interface for metrics. This ensures that application developers can build and access metrics from their apps in variety of protocols and systems.



MICROMETER
application monitoring





Monitoring tools

Mendix Monitoring (Out of the box)

- Alerting
- Logging (Live & Historical)
- Trend Graphs

Leverage your own

- Uses open protocols to make connecting easy
- Ability to add custom metrics if required
- Custom alerting and dashboards





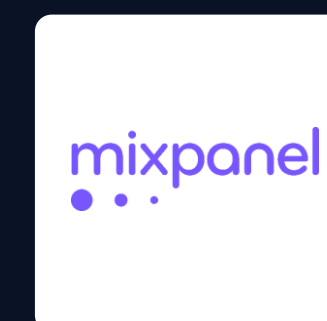
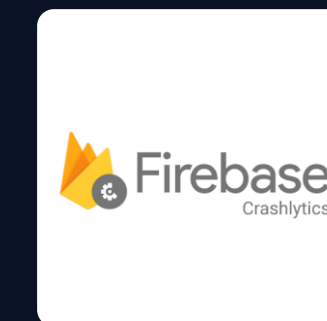
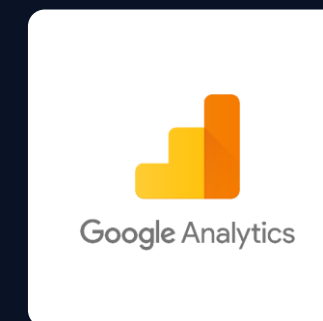
App Usage Analytics

Mendix (Out of the box)

- User access monitoring
- Marketplace components for custom usage analytics

Leverage your own

- Dedicated connectors on Marketplace
- Leverage A/B testing tools
- Ability to embed any JavaScript library used for activity monitoring.





App Insights

Hearing the voice of your users

Feedback Management

The Mendix Platform provides development teams with the following advanced feedback management features:

- Collection of feedback from users
- Communication channels with users for submitted feedback
- Feedback management and de-duplication features
- Feedback prioritization
- Planning, progress, and resolution status notification features
- Integrated with project management tools such as EPICS

The screenshot displays the Mendix Feedback Management interface. At the top, a feedback issue is shown with the title "Would be very useful to have all workspace information captured against each user." and a status of "Open". The issue is dated 4/26/2023 and is associated with Simon Guerin. Below the issue title, there are tabs for "Overview" and "History".

The main content area shows details for an experience titled "Mendix Experience w/ Team Alpha". It includes a progress bar indicating that there are 0 days before the experience starts. The experience details section contains fields for Experience ID, Experience Name, Level, Experience Start, Experience Structure, Experience Scale, Organizer (Simon Guerin), and Experience Source (Sales, Marketing, Internal). There are also fields for Email CC, Notes, and Repair Service.

Below the experience details, there are sections for "Attendee joining details", "Instructor groups" (listing Theo Le Corre), and "Attendees" (listing Mr Luke Causevic). The "User Details" section provides information about the user's active roles (Organizer), active form (ExperienceDay/Experience_Edit.page.xml), screen size (1728x1117), browser (Mozilla/5.0), and location application (https://experience104.mendixcloud.com/index.html).

The interface also features a "Comments" section with a text input field and a "Leave a comment" button. On the right side, there is a sidebar with buttons for "Accept Feedback", "Mark 'Under Review'", "Mark as Handled", "Close Feedback", "Delete Feedback", and a "Move to App" dropdown menu.

Feedback Widget

Mendix provides the Mendix Feedback Widget to empower end-users to submit feedback from the context of the app itself.

Feedback items are submitted through the widget into the Feedback section of the app project in the Developer Portal.

This allows end-users to easily provide valuable feedback to the app development team including tagged screenshots.

The screenshot displays a web application titled "Supply Risk Management - Berlin (Germany)". The interface is divided into several sections:

- External risks:** Lists events such as "Hurricane Warning - Hurricane Frank in Florida, CW34" (Severity: 5/5) and "Wildfires in West Coast states, CW32" (Severity: 3/5).
- Potentially affected suppliers:** Lists suppliers like "FirstComponents" and "BoostLogics" with their contact information and locations.
- Potentially affected materials by Hurricane Warning - Hurricane Frank in Florida, CW34:** Lists materials like "Housing Front - 20x22mm - 2500 PCS" and "Housing Rear - 20x22mm - 2900 PCS", each with an "Open" button.
- KPIs:** A pie chart showing "4 closed" (green) and "11 open" (red) items. Below it, a summary shows "1 Outgoing" and "3 Incoming" items.
- Messages:** A list of delivery requests, such as "Delivery request by London (UK)" and "Delivery request by Utrecht (Netherlands)", each with a status indicator (green checkmark or red X) and an "Open" button.

A "Feedback" widget is visible in the bottom right corner of the application interface, represented by a blue icon with a circular arrow and the word "Monitor".

Mini Surveys

Mini-surveys provide a simple, standard way of getting feedback from your users in the form of a questionnaire.

Survey responses are submitted through the widget into the Developer Portal.

This allows end-users to easily provide valuable feedback to the app development team.

The screenshot displays the configuration page for a 'New Reporting Satisfaction Survey' within the NewsAggregator application. The interface is divided into several sections:

- Survey ID:** NEW-01
- Goal:** Find out how satisfied users are with the new article reporting mechanism
- Conditions:**
 - Where:** On the home page
 - How & When:** When they first land on the page after login
 - Target User Group:** Regular users only
- Settings:** Includes an 'Edit Settings' button.
- Runtime:**
 - Starts on:** May 31, 2023 08:00
 - Ends on:** Jun 14, 2023 20:00
- Toaster Placement:** Bottom right
- Questions:**
 - Question 1: How satisfied are you with th**
 - Type: Ratings
 - Scale: Emoji
 - Required: Yes
 - Question 2: Do news article appear frequ**
 - Type: Multiple Choice
 - Options:
 - Not frequently enough
 - About right
 - Too frequently
 - Required: Yes

The right-hand side of the interface shows the 'Implementation' tab, which includes a 'How to setup Mini Survey in your App with Studio Pro' section. This section provides a 'Go to API Keys' button and detailed instructions for installing and configuring the survey module, including steps for marketplace installation, API key configuration, and layout placement.



Security & Governance



Mendix security certifications

The most secure Low-Code platform in the market

Mendix complies with the following third-party security certifications and assurance reports:

- ISO/IEC 27001 Certification
- ISO/IEC 27017 Certification
- ISO/IEC 27018 Certification
- ISAE 3000 Type II Assurance Report
- ISAE 3402 Type II Assurance Report
- FSQS & FSQS-NL
- SOC 1 Type II Assurance Report

The Platform handles known security threats in the runtime and cloud. Each month the entire platform is pen-tested based on:

- OWASP
- ISSAF (Information Systems Security Assessment Framework)
- OSSTMM (Open Source Security Testing Methodology Manual)

For vulnerability management, a program is in place for continuous monitoring of the security posture of the Mendix Platform.

- Before a release is shipped, the release is scanned by Snyk, Veracode, and SonarQube.

Integrated Identity Management Support:

- OpenID, OAuth, SAML, LDAP



Mendix security certifications

The most secure Low-Code platform on the market



Certifications

- ISO/IEC 27001 Certification
- PCI DSS Level 1 Service Provider
- Cyber Essentials (UK)
- CSA STAR Certification Level One
- ISO 22301 - Business Continuity Management
- ISO/IEC 27017 Security in the Cloud
- ISO/IEC 27018 Protection PII
- NEN 7510 Certification
- HIPAA & HITECH Letter
- FSQS and FSQS-NL
- ISO 9001
- ISO/IEC 27701 – Privacy Management System
- GxP



Attestations Reports

- ISAE 3000 Type II Assurance
- ISAE 3402 Type II Assurance
- SOC 1 Type II Assurance
- SOC 2 Type II Assurance
- SOC 3 Type II Assurance
- FedRAMP Moderate
- DigiD NL
- C5 (H1 2023 – Delayed due to CF A Audit)
- TISAX (H1 2023)
- ENS (Spain)



Customer Specific

- Siemens ACP Level 2
- SAP SolEx partner
- Volkswagen DCSO Level 2
- Johnson & Johnson GxP
- GSK GxP



Control Center

Easily maintain and manage members, apps, and groups



Apps

- Overview of active and deactivated app
- Deactivate/delete apps
- App info like App ID, members, and team role



Members

- List of active, deactivated, and external members
- Activate/deactivate members and invite or remove members to apps
- Member details like app access, role, certification, etc.



Groups

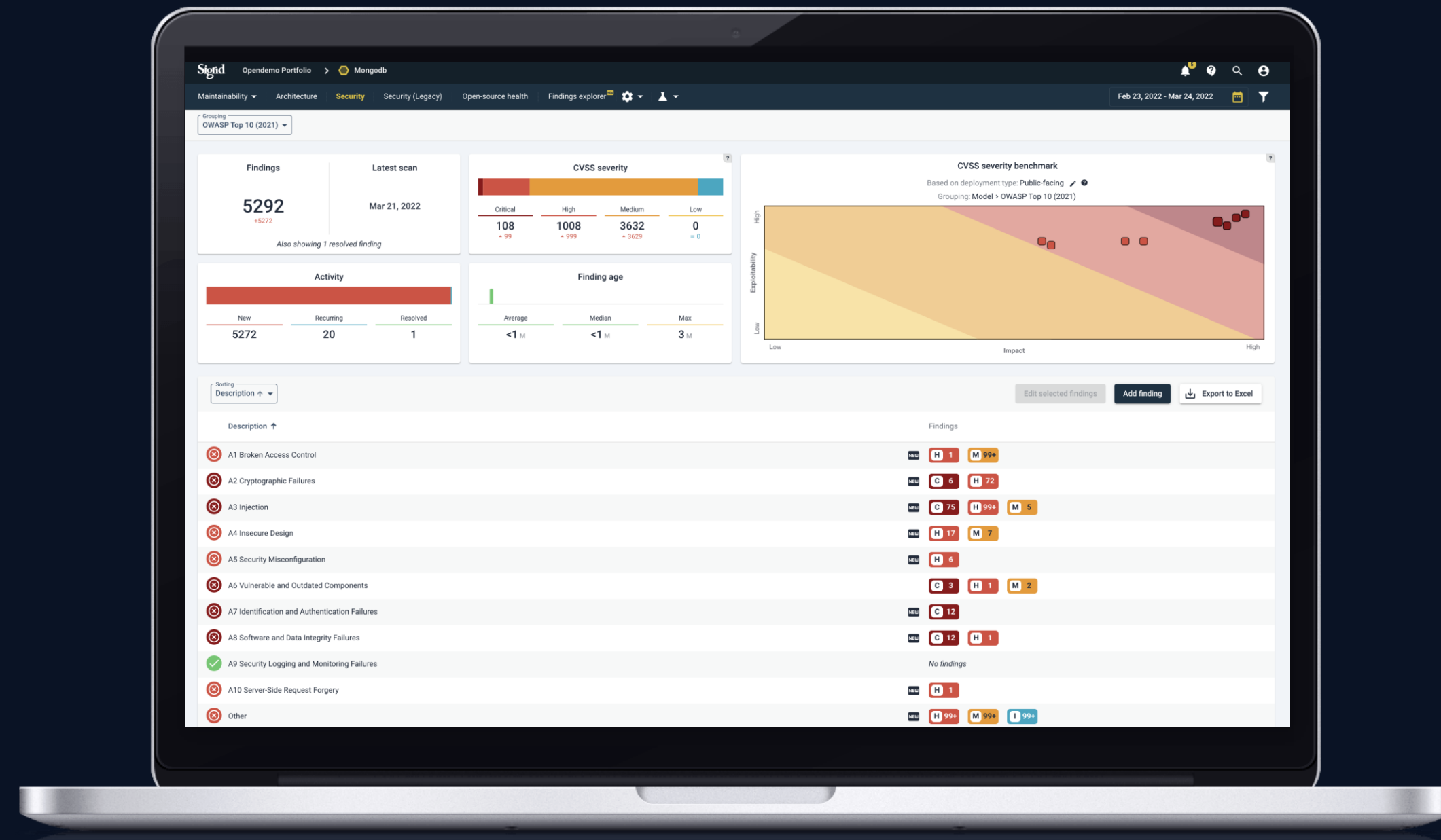
- Centralize access management by setting up App Access Groups
- Choose specific app environment node and user roles that can access the app

Security without headaches – QSM



1 platform, 1 single version of the truth, clear prioritization of issues, and easy to use for all teams.

- Full software security portfolio scanning platform.
- Ensuring that you meet the highest security standards and prioritize changes.
- It scans the following:
 - Mendix-specific Misconfiguration checks
 - Java/JavaScript (SAST)
 - Vulnerabilities in Open-source (SCA)
 - Software Bill of Materials
- It works in three steps:
 1. Scan the code for vulnerabilities
 2. Rank for compliance
 3. Recommend for risk mitigation



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Attend or watch webinars

Webinars

Mendix provides a free series of live and interactive webinars that will help you to understand the inner-workings of the platform. Our wide range of webinar topics include UX, Java, REST integration, QA, mobile, and performance. Whether you're just getting started with Mendix or you're a seasoned veteran developer, there's something for everyone!

Certifications

The Mendix Developer Certification Program will help to boost your career by validating your knowledge, skill level, and contributions to the Mendix community. A certification obtained at the Rapid Developer, Intermediate Developer, Advanced Developer and Expert Developer levels contributes to your ranking and visibility, and it will be directly visible to the Mendix community.

Get certified

Learning Paths

Get started on your learning journey with the right path. You can either get started straight away or filter by role, level or topic.

Online modules & learning paths

Highlights from Forum

Latest questions

- Can't style PDF**
Hello, I really want some custom styling on a PDF file. I followed this documentation: <https://docs.mendix.com/refguide/document-templates>. But I can not style anything like headers, paragraphs or titles, because the headers and...
- OQL no viable alternative at input 'DateTime'**
'SELECT Inspection/DateTime As InspectionDateTime, measurement/Value As value FROM SPC.Measurement AS measurement JOIN measurement/SPC.Measurement_InspectionForm/Measurement/SPC.InspectionF...
- how to use IFrame to Open an external webpage ?**
Hi team I want to open an external app from the Mendix app. Should you use an IFrame or is there any idea how to do this?

Ideas

- Run Mendix Studio Pro for Ubuntu, Linux-base developers**
To read tutorial with screenshots go to <https://github.com/bc57da8d/mendix-linux> I am using Ubuntu 20.1 This is tutorial for Mendix developer that use Ubuntu or Linux-base OS (Fedora, openSUSE, Debian...) This contain links to ...
- Avoid database inconsistencies that occur when migrating attribute types**
If the attribute type is changed to an unsupported type, an error will be displayed at startup. <https://docs.mendix.com/refguide/attributes-type-migration#2-2-conversion-table> This is documented, but it would be good to avoid th...
- Re: Data Grid 2 Show/Hide to user based and default filters as in data grid.**
Able to Show/Hide Fields to be based on the user and also able to reset to default would be really helpful. Also if we could provide all the features had in normal data grid.

Trending topics

Studio Pro Widgets Other Microflows

Go to Forum

Upcoming Meetings

Building a Native Damage Appraisal App & Networking
Monday November 29, 2021
Ordina Belgium

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63856 Developers match your criteria

- Savvy Kaushik**
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- Brian Su**
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Docs

- > Mendix 7 Reference Guide
- > Mendix 7 How-to's
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- > Mendix 6 Reference Guide
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Thank you

mx