

A12 Enterprise Low Code Platform

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About mgm

Enterprise applications for commerce, insurance and public sector

mgm follows the approach of digital sovereignty, according to which organizations retain control and know how of their own IT systems.

Specialists with a focus on business, IT and the organization work closely together on this - in a team with more than 850 colleagues.

The foundation is the enterprise low-code platform A12, on which secure and highly scalable industry solutions for commerce, public sector and industrial insurance are built.

At 17 locations worldwide mgm lives the mission: Innovation Implemented.



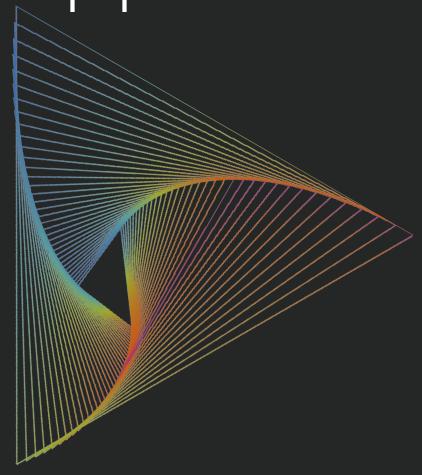
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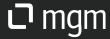
- 1. Motivation and approach
- 2. Modeling platform
- 3. Runtime platform
- 4. Summary and outlook



1. Motivation and approach

From micro apps to integrated enterprise applications What is A12?



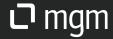


Enterprise- and shadow IT

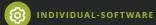


Micro app low code cloud solution

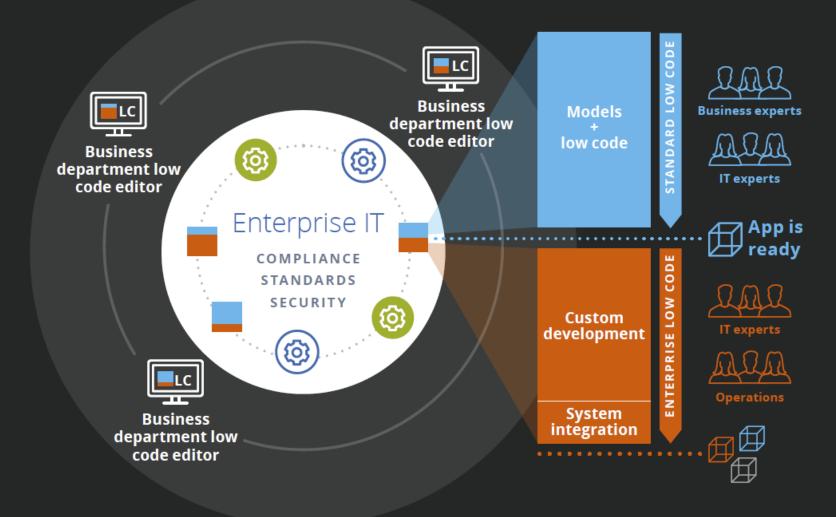
Shadow IT

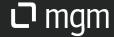




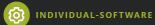


Enterprise low code development









1. Motivation and approach

What is A12?

A12 is an Enterprise Low Code Platform

for realizing government and enterprise applications in complex IT landscapes.









Modular, flexibly applicable client- and server-side components in a modern enterprise architecture



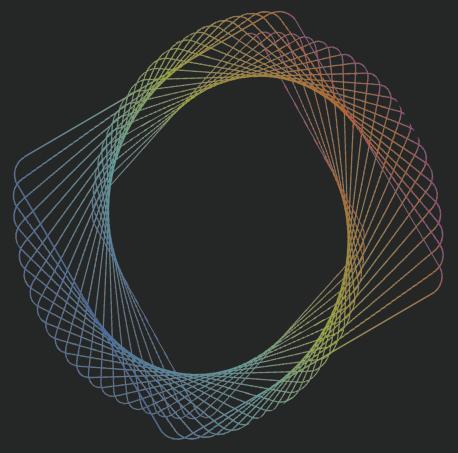
2. Modeling platform

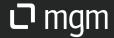
Main modeling dimensions

A12 Installer

Demo

A12 Rule Language





2. Modeling platform

Main modeling dimensions



App modeling

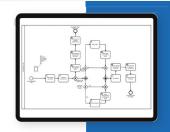
Application framework

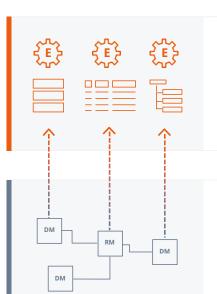




Workflow modeling

 Business processes based on BPMN 2.0 (Business Process Model and Notation)





UI modeling

- Form models → Forms
- Overview models → Tables
- Tree-models → Hierarchies



Data modeling

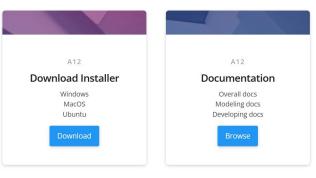
- Document model
- Relationship model
- Validation rules
- Calculations





2. Modeling platform

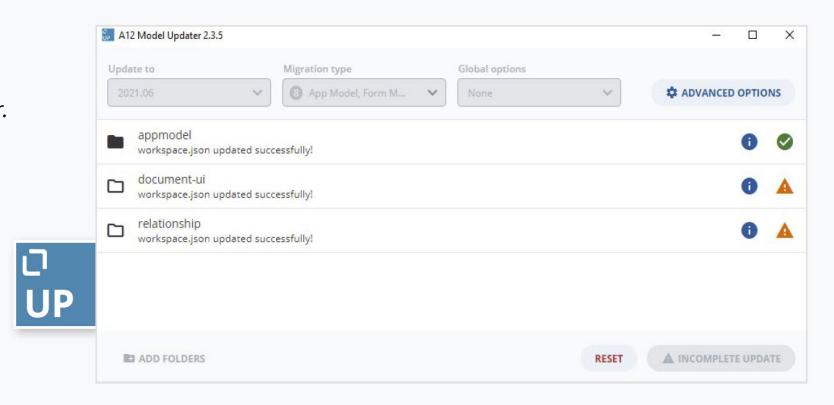
A12 Installer: Using modeling tools locally



https://geta12.com/

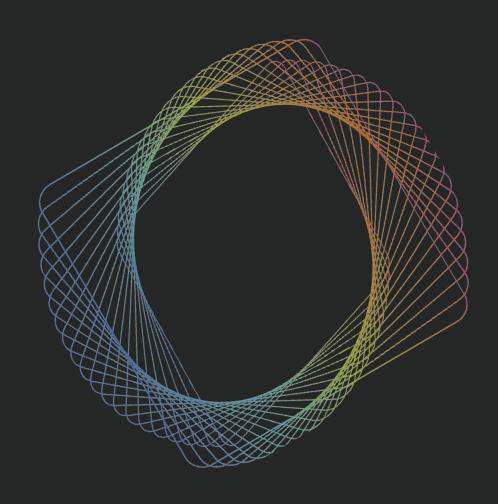
Using modeling tools locally

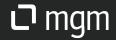
- For Windows 10, macOS, Ubuntu Linux.
- The installer delivers all modeling tools, sample workspaces, the Preview App and the Model Updater.



Demo

Features of an A12 app Modeling a shopping list app



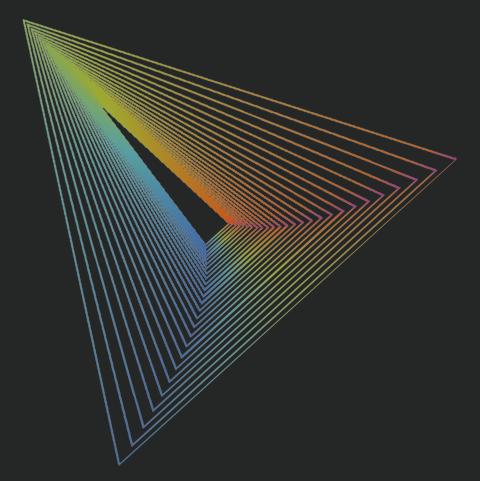


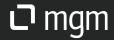
Architecture Overview

Components

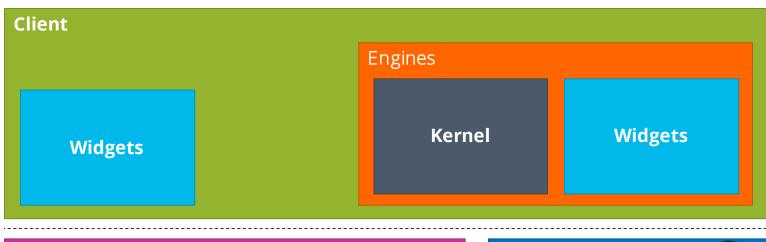
Generator and Interpreter

From models to application

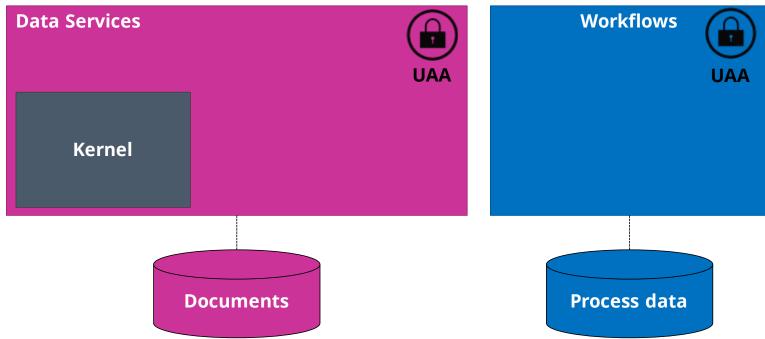




Architecture Overview



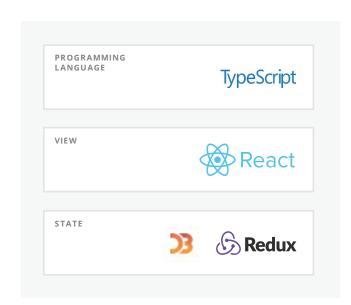
Client Rest API Server

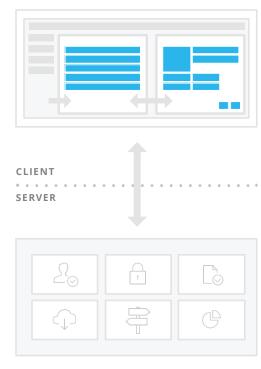




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w Widgets





Reusable UI components that follow Plasma design conventions and UX concepts.

Features:

- Desktop, tablet and smartphone support
- Keyboard, mouse and touch
- Accessibility
- Browser compatibility
- Programming API
- Extendable
- Seamless integration with A12 Engines

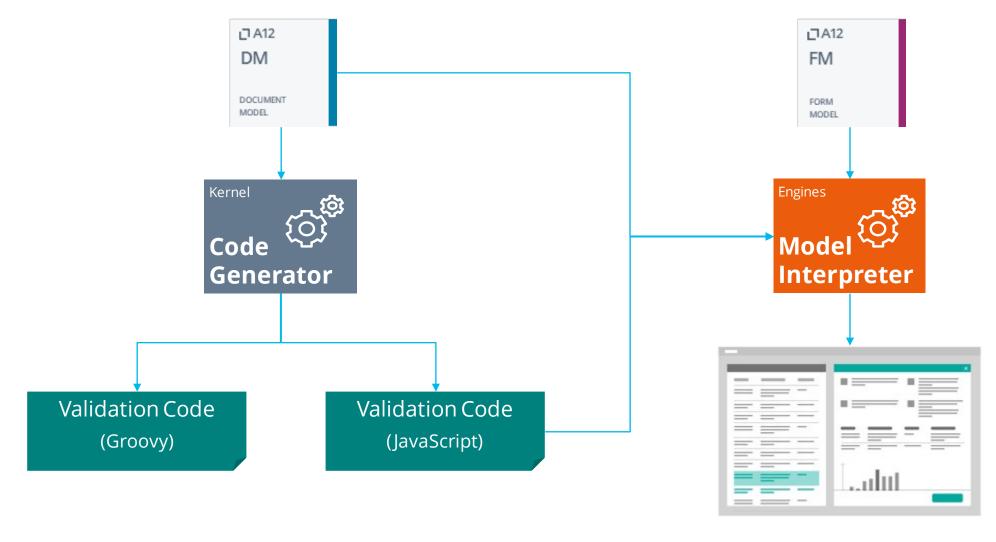


Widget Showcase

https://a12.mgm-tp.com/showcase/

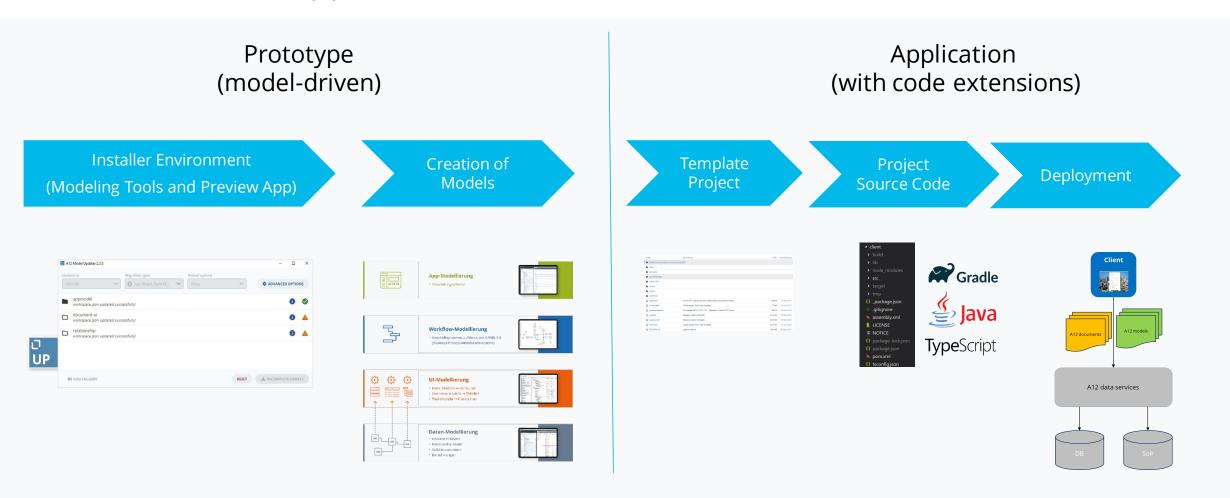


Generator and Interpreter



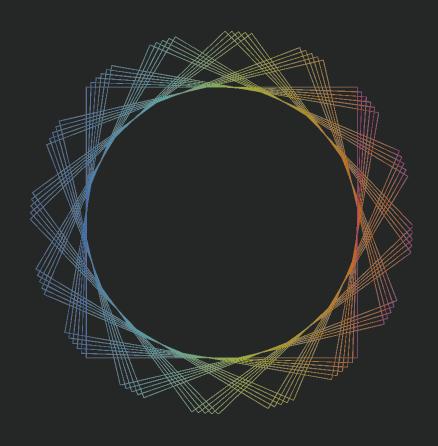


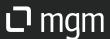
From models to application





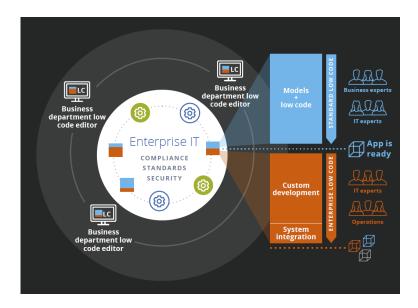
4. Summary & outlook





Summary

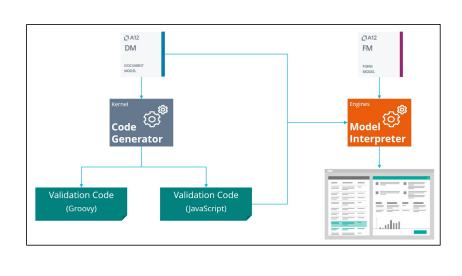
- Enterprise Low Code Platform
 - Models
 - Custom development
 - System Integration



- Modeling Platform
 - Example Application
 - Modeling using the A12 Rule Language



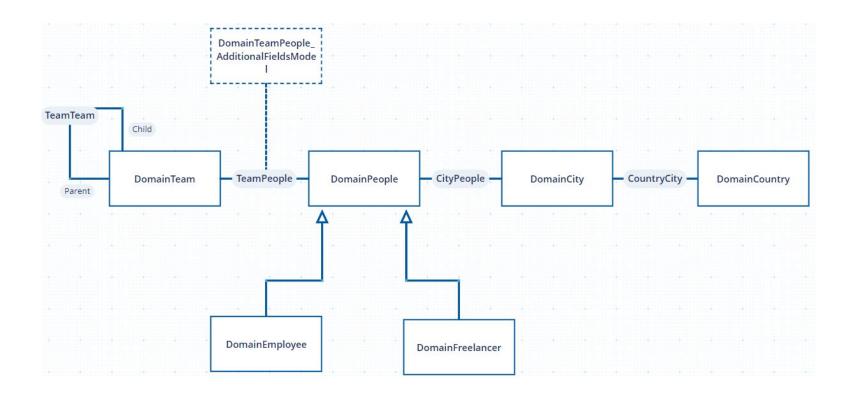
- Runtime Platform
 - Component Architecture
 - Code generator and model interpreter





4. Summary and outlook

Outlook













Innovation Implemented.



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