

The principles of low-code development

Enabling makers across the organization to deliver business value with Mendix

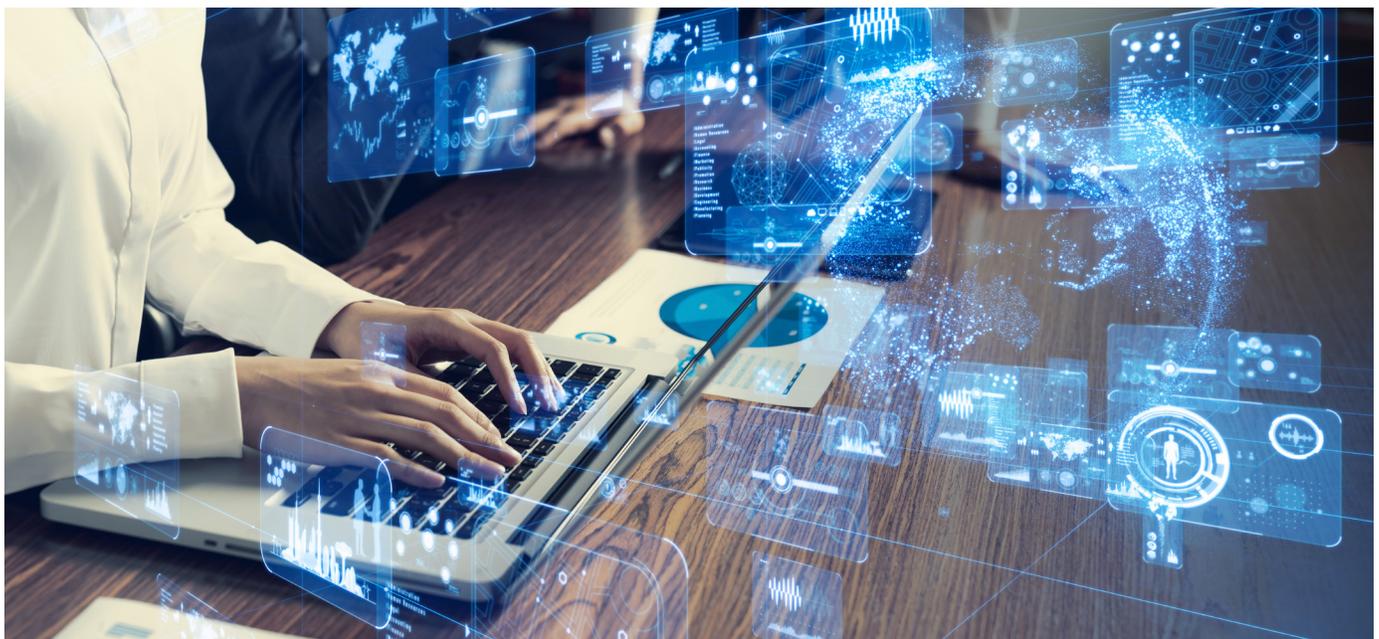
Benefits

- Transform ideas into low-code applications that deliver business value
- Leverage a shared visual language to support the interchange of knowledge and ideas
- Manage the full enterprise application development lifecycle with agile workstreams
- Use the cloud to enable the ease and speed of application deployment that customers demand
- Use an agnostic enterprise application development platform to remove limitations on what can be built
- Support and synchronize the workflow of multiple developers

Summary

Technology is an ever-evolving juggernaut on the business landscape. Core systems and business challenges are becoming progressively more complex. The pace of that evolution increases exponentially – what is fast right now will be glacial in hindsight.

To keep up, you must build and deploy innovative, timely solutions. We believe that building solutions with low-code makes that possible. We believe software should be built well. We believe it should deliver business value. We believe it should be delivered at speed.



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Using Mendix, which is a part of Xcelerator, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, makes this happen at scale by adhering to these application development pillars:

- **Focus on business impact:** create alignment, achieve clarity, succeed quickly
- **Unleash all the makers from across the enterprise:** no brainpower goes to waste
- **Do everything with an agile attitude:** empower small teams, build for the cloud, deploy swiftly and often
- **Assemble from existing business capabilities:** use established assets, don't default to building from scratch
- **Connect everything:** Whether it is application programming interfaces (APIs), integrations or new ways to access data – it is critical to be open and accessible.

Although low-code enables you to build valuable solutions at speed, as with any tool it needs to be used correctly to get the best results. We define the following nine principles of low-code application development to empower makers from the enterprise to the dorm room to build software that makes a difference.

The nine principles of low-code application development:

- 1. Model-driven development**
Transform ideas into applications that deliver business value through abstraction, automation and openness.
- 2. Collaboration**
Leverage a shared visual language to support the interchange of knowledge and ideas between business domain experts and developers.
- 3. Agility**
Manage the full enterprise application development lifecycle with agile workstreams to eliminate bottlenecks, support iterative delivery and achieve shortest time-to-value.
- 4. The cloud**
The cloud enables the ease and speed of application deployment that customers demand.
- 5. Openness**
Anything can be integrated with an agnostic enterprise application development platform – this removes limitations on what can be built.
- 6. Multi-user development**
Multiple developers should be able to work on an application at the same time. The platform must support and synchronize their work streams. *Multi-user development blog post coming soon.*
- 7. Experimentation and innovation**
Development tools need to be affordable and nimble so innovators everywhere can experiment, explore and create.
- 8. Governance and control**
Robust governance and control processes and protocols are essential.
- 9. Community**
A platform without a community is no platform at all.

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