

# KOADX

*Beautiful code. Automated*

## The technology dilemma

In today's fast-paced world, businesses need custom software not just to stay innovative, competitive, and to grow, but to simply keep up.

However, developing software is costly, time-consuming, and finding the right skills is very challenging.

Tools like low/no code platforms and AI code generation can help reduce development time and costs, but they may come with some limitations.



## Finding Skills is tough

MIT Technology Review asked the question:

“Which of these challenges do you encounter in recruiting IT/tech employees?”

64%

Lack of skills  
or experience

56%

Shortage of  
Candidates

54%

Salary  
Expectations

31%

Missing  
Credentials

30%

Non-salary  
Exceptions

29%

Not good  
Fit





The AI Revolution?  
The AI oasis is turning out to be a mirage.



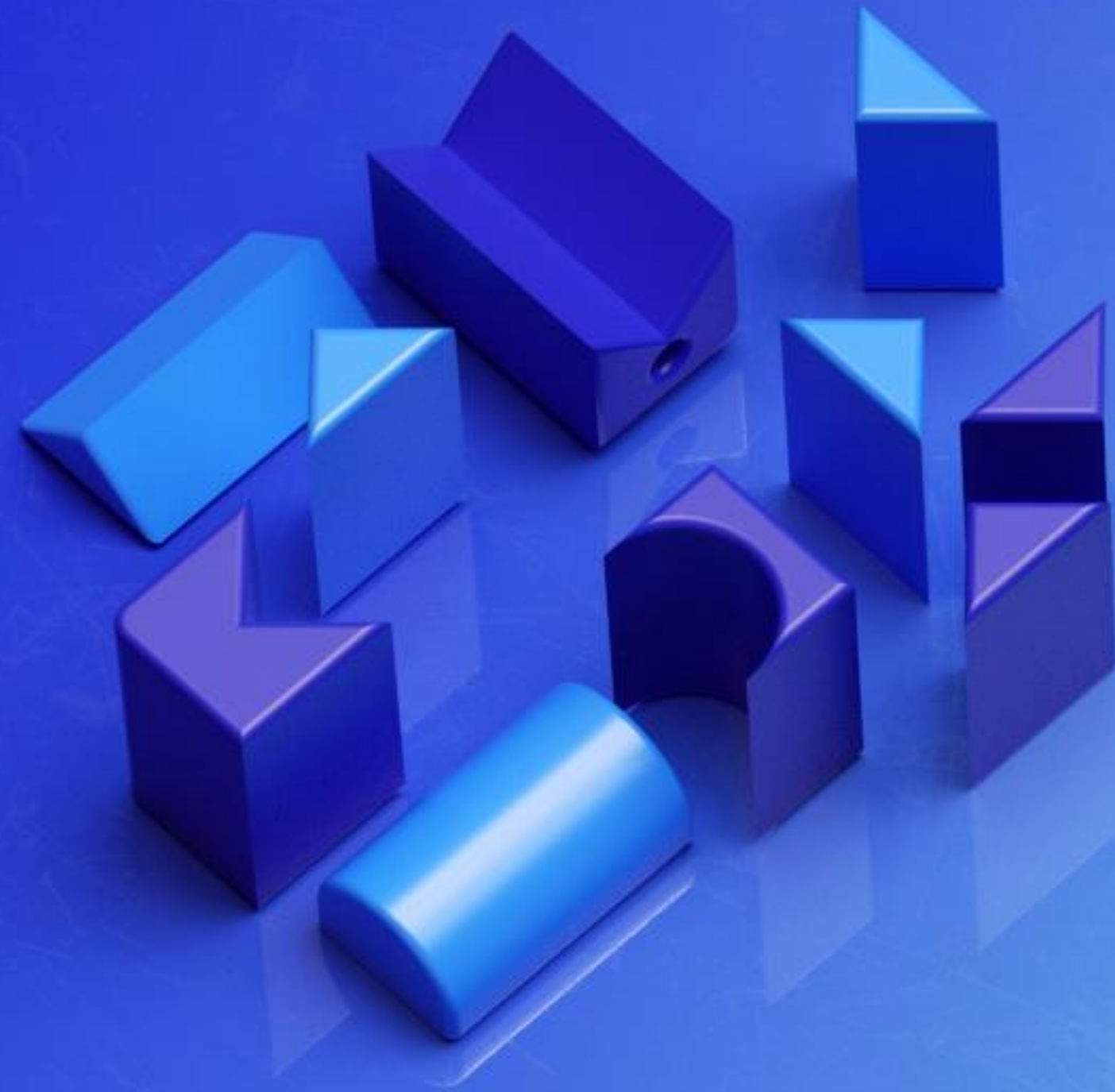
When we find them, we wear them out!  
Developers are overworked and burning out.



There must  
be a better  
way



# KOADX: Source code as a Service



Developers define a model of their system

KOADX does the heavy lifting, building 94% of code base

Developers then focus on ~6% of code unique to your product or business



# KOADX: Source code as a Service



Tech Choices



Data Classes



Workflow



Basic Questions

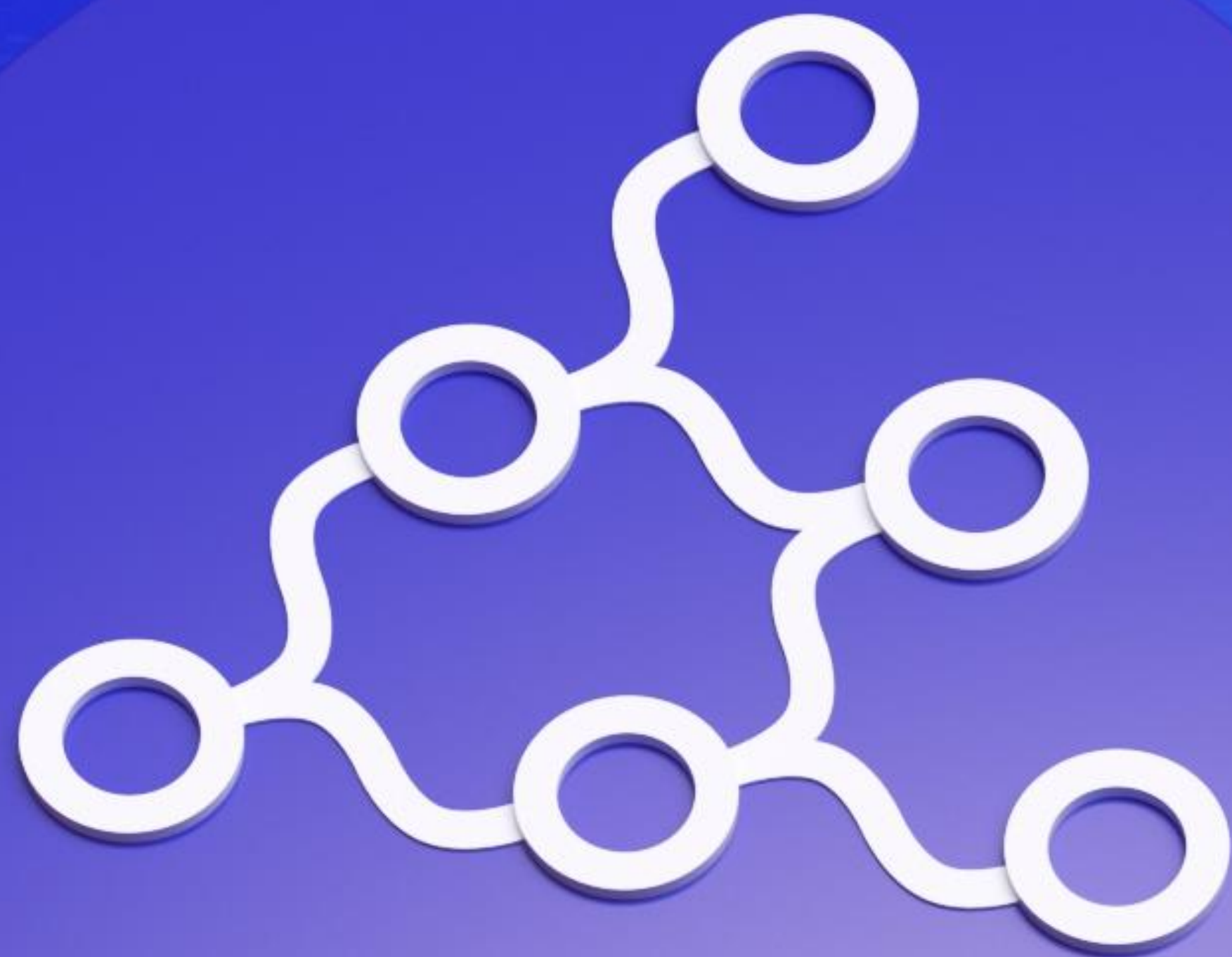


Relationships



















Roles





## Configure Properties

Configure the properties to be used for: Property

PropertyName <span>↑↓</span>	DisplayText	Type	Options
TRPNumber	TRP Number	String	 
Name	Property Name	String	 
AddressLine1	Address Line 1	String	 
AddressLine2	Address Line 2	String	 
AddressLine3	Address Line 3	String	 
AddressLine4	Address line 4	String	 
Island	Island	Lookup	 
Postcode	Postcode	String	 

Showing 1 to 8 of 8 entries << < 1 > >>





```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q) Renewable Energy Installation
Renewables.Api - Debug - Any CPU - Api
CustomerController.cs
92
93 /// <summary>
94 /// Create a new Customer data record
95 /// </summary>
96 /// <param name="request">A CreateRequest<DataTransferObjectModels.Customer>; contract</param>
97 /// <response code="200">Returns a CreateResponse<DataTransferObjectModels.Customer>; contract</response>
98 /// <response code="400">Returned if the CreateRequest<DataTransferObjectModels.Customer>; contract request was invalid for creating a Customer</response>
99 /// <response code="401">Returned if the user's tenant is inactive</response>
100 /// <response code="500">Returned if an exception was thrown while attempting to create a Customer</response>
101 [HttpPost("/customer")]
102 [ProducesResponseType(typeof(CreateResponse<DataTransferObjectModels.Customer>), StatusCodes.Status200OK)]
103 [ProducesResponseType(typeof(BadRequestResponse), StatusCodes.Status400BadRequest)]
104 [ProducesResponseType(typeof(StatusCodes.Status401Unauthorized))]
105 [ProducesResponseType(typeof(StatusCodes.Status500InternalServerError))]
106 [Authorize]
107 public async Task<ActionResult<CreateResponse<DataTransferObjectModels.Customer>>> CreateAsync(CreateRequest<DataTransferObjectModels.Customer> request)
108 {
109     _logger.LogDebug($"Method: {Url}", Request.Method, Request.GetUrlString());
110     _logger.LogDebug($"LocationAndMethod", CurrentLocationHelper.GetCurrentLocationAndMethod());
111
112     if (request is null)
113     {
114         return BadRequest(new BadRequestResponse(badlyFormedRequest: true));
115     }
116
117     try
118     {
119         var authenticationData = _authenticationHelper.GetAuthenticationData(Request.Headers);
120         if (!authenticationData.TenantActive)
121         {
122             return Unauthorized(new UnauthorisedResponse
123             {
124                 Messages = new List<IMessage>
125                 {
126                     new Message
127                     {
128                         MessageLevel = MessageLevel.Error,
129                         MessageAudience = MessageAudience.System,
130                         MessageText = "The tenant is inactive"
131                     }
132                 }
133             });
134         }
135     }
136     catch (Exception ex)
137     {
138         return StatusCode(500, new BadRequestResponse(badlyFormedRequest: true));
139     }
140 }
141
142 Error List Output
```



# Renewables.Api <sup>v1</sup> OAS3



<https://localhost:5001/swagger/v1/swagger.json>



Authorize 

Audit 



Authentication 

Customer 


**POST** /customer Create a new Customer data record  

**PUT** /customer Update a Customer data record  



**GET** /customer Retrieves a Customer data record  

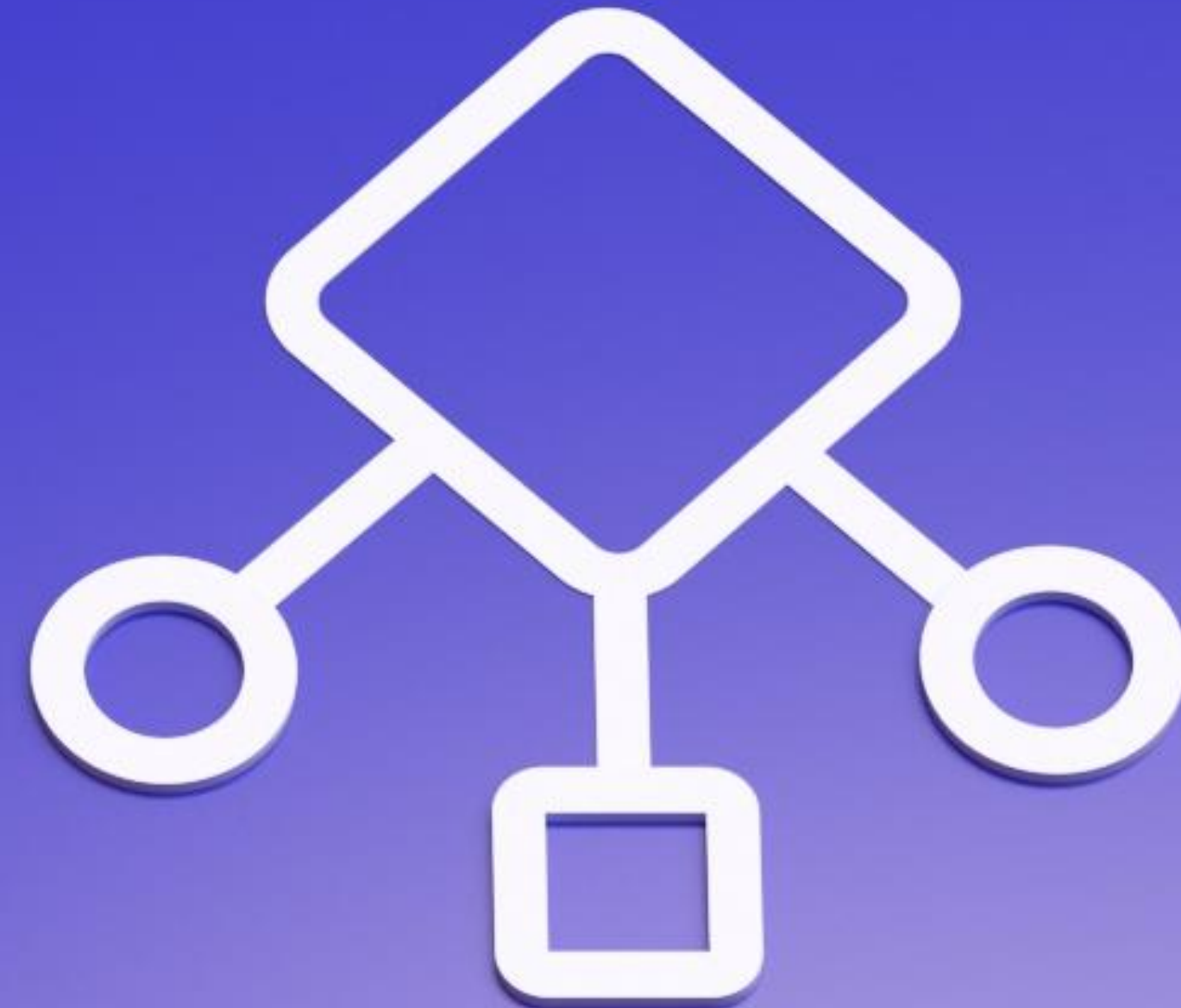
**GET** /customerlist Retrieves a list of Customer data recor  

**POST** /customerdelete Delete a Customer data record  

**POST** /customerundelete Undelete a Customer data recor  

**POST** /customerlock Lock a Customer data record  

**POST** /customerunlock Unlock a Customer data record  



# KOADX: Source code as a Service



## Limitless customisations

- Custom Pre & Post events on every operation
- Custom permission + Pre & Post events on every workflow state transition
- Custom scheduled tasks
- All classes and interfaces are partial
- Extended library import and dependency injection



## Data change Scripting - between model versions

- Stops destructive changes (bigint – int, shortening strings etc)
- Scripts changes
- Check and Update Modes





## What our clients say

“It took our company a year to do that work. You’ve done the same thing in 7 days!”

“Time critical asset management system delivered much faster than expected.”

“I have no idea how you did that for us and so quickly!”

**“This will change everything”**

# KOADX: Beautiful code. Automated



## For business

- Faster to market.
- Shorter pipelines.
- Lower Technical debt.
- Consistent and high quality.



## For developers

- Less repetitive tasks.
- Less stress.
- Focused on delivering value.
- *Home in daylight.*



# KOADX

*Beautiful code. Automated*