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# 1. Introduction

This document provides a step-by-step guide on how to create, design, and manage projects using the diagram builder, including details on project components, editing, sharing, and code generation.

## 2. Creating a New Project

## **Selecting Project Type**

• Choose the desired project type: Maven, Vert.x, Spring Boot, or WebFlux.



## **Filling Project Metadata and Adding Dependencies**

- Enter project metadata.
- Add required dependencies if applicable.

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## 3. Diagram Builder

The diagram builder allows users to visually design the project structure, adding various components dynamically.



# 4. Maven Project & Vert.x Project



### **Components Bar**

Available components:

Ē	Com.example.demo     D App		
		• Package	
		• Class	
		• Interface	
		• Inner Cla	iss
		• Enum	

### **Project explorer**

• Shows the project packages and components

Package

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Drag a package onto the mesh to create a package within the current package.

**Custom Component** 



- A built-in IDE-style editor enables users to write code directly.
- Predefined elements accessible by typing \$, allowing selection from:



\$class, \$Configuration, \$constructor, \$controller, \$entity, \$enum, \$inner class, \$interface, \$Main method, \$method, \$repository, \$service

#### **UML Style Components**



• Class-level information: annotations, implements, extends, imports (editable via . . . next to the class name)

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• Class variables: annotations, scope, type (added via + button, modified via direct editing)

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	@+propName:int				
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<b>»</b>	@ > main(••••){•••}:void			<u></u>	
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- Function-level details:
  - Annotations (@ symbol)
  - Scope (+, <, >, etc.)
  - Function parameters (edited via ... button, multiple parameters in separate lines)
  - Function body ({...} for natural language, Java, or pseudocode)
  - Return type (select from predefined or custom class types)

#### **Editing and Deleting Components**

- Delete a class: Select and press Delete (Windows) or fn + Backspace (Mac).
- Delete a variable: Place cursor in variable name and press Delete.

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<pre>@ &gt; main(••••){••••}:void</pre>			<b>%</b>
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## **5. Spring Boot Project & WebFlux Project**



### **Components Bar**

Available components:

• Package, Class, Interface, Inner Class, Service, Controller, Configuration, Entity, Repository, Enum

Package
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• Drag a package onto the mesh to create a package within the current package.

**Custom Component** 

Built-in IDE-style editor with predefined elements accessible via \$:

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\$class, \$Configuration, \$constructor, \$controller, \$entity, \$enum, \$inner class, \$interface, \$Main method, \$method, \$repository, \$service

#### **UML Style Components**

þ	Com.example.demo Application	
		Package
		Custom
		component
		Class
E		
_		Interface
		Inner-class
		Samuico
		Service
		Controller
E		
_		Configuration
		Entity
		Littity
		Repository
		Enum

### **Editing and Deleting Components**

• Follow the same deletion/editing steps as for Maven/Vert.x projects.

## 6. Editing Project Initializr Information

- Click the edit symbol to modify project metadata or dependencies.
- Save changes on the metadata page, then confirm on the diagram page.





## 7. Sharing a Project

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		Public Team								

## **Options for Sharing**

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- **Public**: Share in the public repository.
  - Team: Share with selected team members via email.
    - If only your email is entered, you will be the sole project owner.

### Saving and Cloud Storage

- Projects remain local until explicitly shared.
- Shared projects are stored in Azure Cloud.
- Clearing cache deletes locally saved projects, so ensure saving before clearing.

## 8. Generating Code

- Once the diagram is completed, click Generate Code.
- The system generates a complete project, including implementation and unit tests.
- Download the project in moments for further development and deployment.