

Beyond Diagrams: Unlocking the Power of Tables in Sirius Web

Stéphane Bégaudeau - Obeo

Me

- Software architect on Sirius Web
- 15 years of contribution in the Sirius ecosystem
 - Acceleo
 - EEF
 - Sirius Desktop
 - Sirius Web

Sirius Web

Sirius Web

localhost:5173/projects/cdf5f15b-0ebf-429a-b8bf-73c84e6791b8/edit/c0427a3c-52b0-4b33-ab7d-a9f0f97c74fd?selection=6d748870-4c3f-4597-ac92-ff9b973885b8

Papaya - Example

Sirius Web internal test project

RUN COMMANDS... + K ?

Explorer

Sirius

Sirius Web - Lifecycle

Sirius Web

HTTP

Project Creation

Project Creation Lifecycle Diagram

MutationCreateProjectDataFetcher

CreateProjectInput over HTTP

IPProjectApplicationService

SemanticDataInitializer

ProjectSemanticDataInitializer

CreateProjectInput

Project

Semantic Data

ISemanticDataCreationService

SemanticDataCreatedEvent

Project Semantic Data

Project Creation Lifecycle Diagram

HTTP

channel

Application Layer

Project Creation

CreateProjectInput

listened by

MutationCreateProjectDataFetcher

calls

IPProjectApplicationService

SemanticDataInitializer

ProjectSemanticDataInitializer

caused by

Domain Layer

Project

ISemanticDataCreationService

ProjectCreatedEvent

caused by

Semantic Data

ISemanticDataCreationService

SemanticDataCreatedEvent

caused by

Project Semantic Data

IPProjectSemanticDataCreationService

ProjectSemanticDataCreatedEvent

Details

SemanticDataCreatedEvent

Core Properties

Name

SemanticDataCreatedEvent

Description

Description

Emitted By

SemanticDataCreatedEvent over null Values

Listened By

SemanticDataCreatedEvent over null Values

Caused By

ProjectCreatedEvent Values


Learn more

Follow these links to view the code of this Sirius Web internal test project on Github.

Backend code

Frontend code

React Flow



Sirius Web

- Open source project of the Eclipse Foundation
- Web based modeling workbench
 - Define your concepts
 - Specify how to view and manipulate them
 - Start working 🚀

Sirius Web

localhost:5173/projects/0645ebcc-4455-4858-9b67-4ca264799de3/edit/d7db0110-7aca-4a9e-9898-d5149d60efa9?selection=9e60a5f6-0790-4f9d-ba5a-b32da1faacd5

Studio

RUN COMMANDS... + K ?

Explorer

Domain

franklin

Domain

Project

name

description

applicationConcerns

domains

iterations

ApplicationConcern

name

services

controllers

Service

name

Controller

name

Domain

name

services

Iteration

name

done

View

Domain

Project

name

description

ApplicationConcern

name

Domain

name

Iteration

name

done

Controller

name

Service

name

applicationConcerns [0..*]

domains [0..*]

iterations [0..*]

controllers [0..*]

services [0..*]

services [0..*]

services [0..*]

Entity

Text

Boolean

Number

Details

Service

Core Properties

Name

Service

Super Types

Values

Abstract

React Flow

spring-tools-for-eclipse - sirius-components-papaya/src/main/resources/model/papaya.ecore - Spring Tools for Eclipse

Package Explorer

ContainingLink.java

Contribution.java

Controller.java

DataType.java

Domain.java

Enum.java

EnumLiteral.java

Event.java

Folder.java

FolderElement.java

GenericType.java

Interface.java

InterfaceImplementation.java

Iteration.java

Link.java

Message.java

MessageEmitter.java

MessageListener.java

ModelElement.java

NamedElement.java

Operation.java

OperationalActivity.java

OperationalActor.java

OperationalCapability.java

OperationalEntity.java

OperationalInteraction.java

OperationalProcess.java

Package.java

PapayaFactory.java

PapayaPackage.java

Parameter.java

Priority.java

Project.java

ProvidedService.java

Publication.java

Query.java

Record.java

RecordComponent.java

ReferencingLink.java

Repository.java

RequiredService.java

Service.java

Subscription.java

Tag.java

Task.java

Type.java

TypedElement.java

TypeParameter.java

Visibility.java

org.eclipse.sirius.components.papaya.impl

org.eclipse.sirius.components.papaya.spec

org.eclipse.sirius.components.papaya.spec.derived

org.eclipse.sirius.components.papaya.util

src/main/resources

model

papaya.ecore

papaya.genmodel

JRE System Library [JavaSE-17]

Maven Dependencies

src/test/java

target/generated-sources/annotations

src/test/resources

target/generated-test-sources/test-annotations

src

target

pom.xml

pom.xml.versionsBackup

sirius-components-papaya.iml

sirius-components-papaya-edit [sirius-web sbe/enh/papaya-fix]

papaya.ecore

papaya.genmodel

platform:/resource/sirius-components-papaya/src/main/resources/model/papaya.ecore

papaya

ModelElement

Tag

Link

ReferencingLink -> Link

ContainingLink -> Link

NamedElement -> ModelElement

Container

Folder -> NamedElement, Container

FolderElement

Project -> NamedElement, Container

OperationalCapability -> NamedElement, FolderElement

OperationalEntity -> NamedElement, FolderElement

OperationalActor -> NamedElement, FolderElement

OperationalProcess -> NamedElement, FolderElement

OperationalActivity -> NamedElement, FolderElement

OperationalInteraction -> NamedElement

Instant [java.time.Instant]

Iteration -> NamedElement, FolderElement

Task -> NamedElement, FolderElement

Priority

Contribution -> NamedElement, FolderElement

Component -> NamedElement, FolderElement

ComponentPort -> NamedElement

ComponentExchange -> NamedElement

ProvidedService -> NamedElement

RequiredService -> NamedElement

Visibility

AnnotableElement

Package -> NamedElement, AnnotableElement, FolderElement

Type -> NamedElement, AnnotableElement

TypedElement -> NamedElement, AnnotableElement

GenericType -> ModelElement, AnnotableElement

Annotation -> Type

AnnotationField -> TypedElement

Classifier -> Type

TypeParameter -> NamedElement

Interface -> Classifier

InterfaceImplementation

Class -> Classifier, InterfaceImplementation

Constructor -> AnnotableElement

Attribute -> TypedElement

Operation -> TypedElement

Parameter -> TypedElement

Record -> Classifier, InterfaceImplementation

RecordComponent -> TypedElement

DataType -> Type

Enum -> Type

EnumLiteral -> NamedElement, AnnotableElement

ApplicationConcern -> NamedElement, FolderElement

Controller -> NamedElement, MessageEmitter, MessageListener

Domain -> NamedElement, FolderElement

Service -> NamedElement, MessageListener, MessageEmitter

Problems

Javadoc

Declaration

Git Repositories

Properties

Property

Value

Abstract

false

Default Value

NamedElement -> ModelElement, Container

ESuper Types

Instance Type Name


Interface

false

Name

Project

Selected Object: Project -> NamedElement, Container



Sirius Web

localhost:5173/projects/0645ebcc-4455-4858-9b67-4ca264799de3/edit/d7db0110-7aca-4a9e-9898-d5149d60efa9?selection=bc203f07-9bf6-4d18-bf53-d267bd0901ca

Studio

RUN COMMANDS... + K ?

Explorer

Domain

View

View

Diagram

DiagramPalette

Application Concern Node

Domain Node

ColorPalette

Domain

Project

name

description

ApplicationConcern

name

Domain

name

Iteration

name

done

Controller

name

Service

name

applicationConcerns [0..*]

domains [0..*]

iterations [0..*]

controllers [0..*]

services [0..*]

services [0..*]

Details

Diagram

Core Properties

Name

Diagram

Domain Type

franklin::Project

Precondition Expression

Precondition Expression

Title Expression

Diagram

Icon Expression

Icon Expression

Auto Layout

Arrange Layout Direction

UNDEFINED

RIGHT

DOWN

LEFT

UP

React Flow

Sirius Web

localhost:5173/projects/0645ebcc-4455-4858-9b67-4ca264799de3/edit/d7db0110-7aca-4a9e-9898-d5149d60efa9?selection=fe690bb4-56c2-4c08-b594-82e1374985c6

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RUN COMMANDS... + K ?

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DiagramPalette

Application Concern Node

Domain Node

ColorPalette

Domain

Project

name

description

ApplicationConcern

name

Domain

name

Iteration

name

done

Controller

name

Service

name

applicationConcerns [0..*]

domains [0..*]

iterations [0..*]

controllers [0..*]

services [0..*]

services [0..*]

Details

Application Concern Node

Core Properties

Name

Application Concern Node

Domain Type

franklin::ApplicationConcern

Semantic Candidates Expression

aql:self.applicationConcerns

Precondition Expression

Precondition Expression

Synchronization Policy

☒ SYNCHRONIZED ☐ UNSYNCHRONIZED

☐ Collapsible

Reused Child Node Descriptions

Values

Reused Border Node Descriptions

Values

User Resizable

☒ BOTH ☐ HORIZONTAL ☐ VERTICAL ☐ NONE

Default Width Expression

Default Width Expression

Default Height Expression

Default Height Expression

☐ Keep Aspect Ratio

Is Collapsed By Default Expression

Is Collapsed By Default Expression

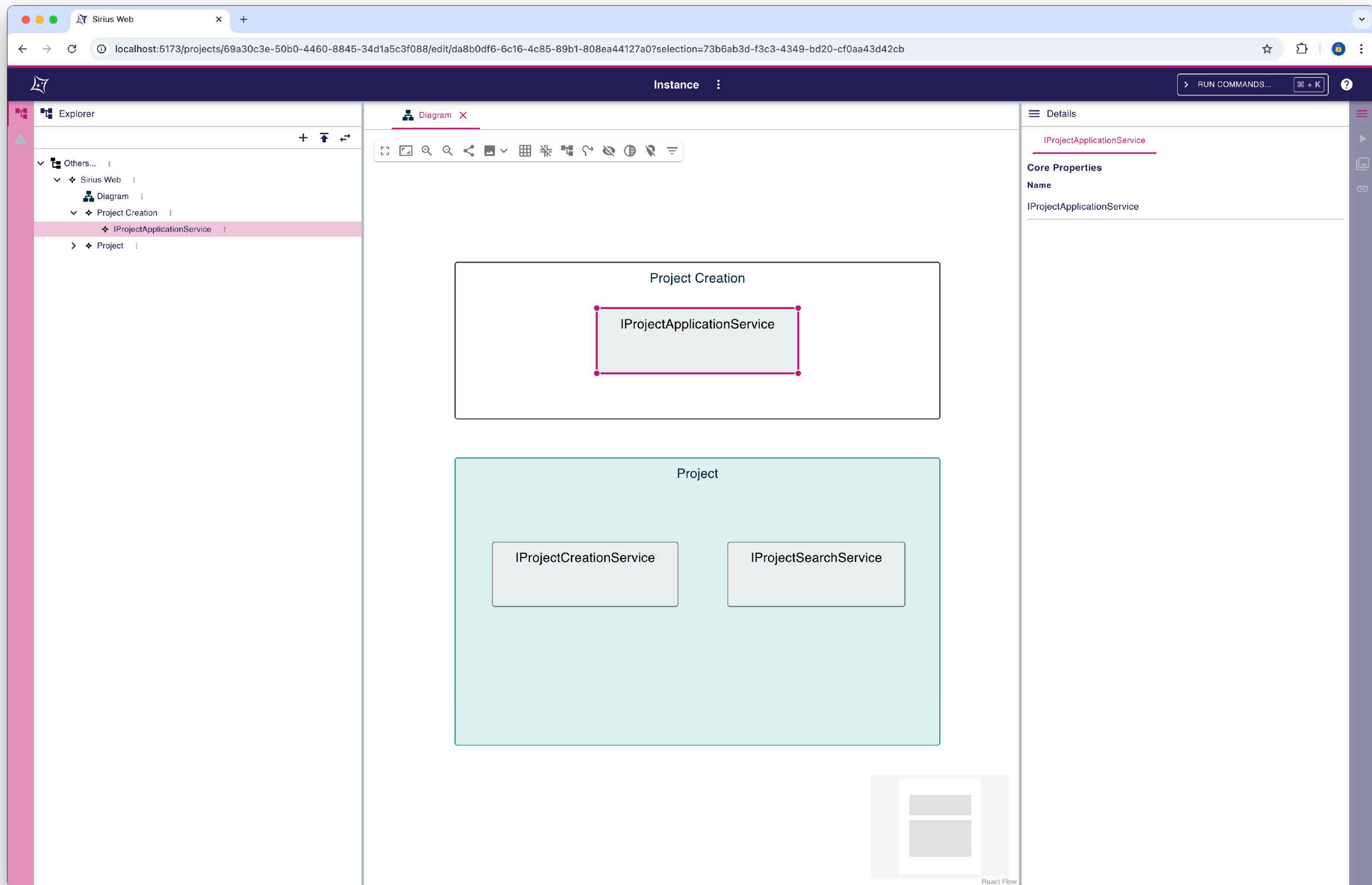
Is Hidden By Default Expression

Is Hidden By Default Expression

Is Faded By Default Expression

Is Faded By Default Expression

React Flow



Sirius Web

localhost:5173/projects/cdf5f15b-0ebf-429a-b8bf-73c84e6791b8/edit/c0427a3c-52b0-4b33-ab7d-a9f0f97c74fd?selection=6d748870-4c3f-4597-ac92-ff9b973885b8

Papaya - Example

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IProjectApplicationService

calls

SemanticDataInitializer

calls

ProjectSemanticDataInitializer

caused by

Domain Layer

Project

ISemanticDataCreationService

emits

ProjectCreatedEvent

listened by

Semantic Data

ISemanticDataCreationService

emits

SemanticDataCreatedEvent

listened by

Project Semantic Data

ISemanticDataCreationService

emits

ProjectSemanticDataCreatedEvent

caused by

SemanticDataCreatedEvent

caused by

ProjectCreatedEvent

Details

SemanticDataCreatedEvent

Core Properties

Name

SemanticDataCreatedEvent

Description

Description

Emitted By

SemanticDataCreatedEvent over null

Values

Listened By

SemanticDataCreatedEvent over null

Values

Caused By

ProjectCreatedEvent

Values


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React Flow



Sirius Web

localhost:5173/projects/38b602a5-eb2d-4e01-b6b0-17bf89e1b21b/edit/ad2285da-a8b9-45e2-be05-8df37699de8d

Pokemon

?

Explorer

Pokemon

Pokemon Game

New Representation

Kanto

Kalos

Ash Ketchum

Pokedex

Pokeball

Water / Fire / Grass

Electric / Poison / Normal

Gary Oak

Pokedex

Pokeball

Awesome Team!

John

Pokedex

Team

Bulbasaur

Ivysaur

Venusaur

Charmander

Charmeleon

Charizard

Squirtle

Wartortle

Blastoise

Caterpie

Metapod

Butterfree

Weedle

Kakuna

Beedrill

Pidgey

Pidgeotto

Pidgeot

Rattata

Raticate

Spearow

Fearow

Ekans

Arbok

Pikachu

Raichu

New Representation

John

Pokedex of John

52 - Meowth

John

Meowth

Viridian City

Cerulean City

Zubat

Pikachu

Belisprout

Abra

Rattata

Pikachu

Pikachu

Kanto

Lumiose City

Santalune City

Zubat

Psyduck

Psyduck

Mankey

Mankey

Meowth

Mankey

Abra

Pidgey

Bulbasaur

Squirtle

Mankey

Kalos

Gary Oak

Awesome Team!

Mankey

Charmander

Psyduck

Abra

Pokedex of Gary Oak

4 - Charmander

54 - Psyduck

58 - Mankey

63 - Abra

Ash Ketchum

Pokedex of Ash Ketchum

1 - Bulbasaur

4 - Charmander

7 - Squirtle

25 - Belisprout

25 - Pikachu

41 - Zubat

19 - Rattata

Ash Ketchum

Water / Fire / Grass

Bulbasaur

Charmander

Squirtle

Belisprout

Ash Ketchum

Electric / Poison / Normal

Pikachu

Zubat

Rattata

Details

Ash Ketchum

Core Properties

Name

Ash Ketchum

React Flow

Sirius Web

- Sirius Web comes with various representations
 - Diagrams
 - Forms
 - Trees
 - Gantt
 - Deck
 - Portal
 - Table

Table

Sirius Web

localhost:5173/projects/c62bd387-c202-4583-b6a3-df1b92b2b911/edit/913ff71b-7fc7-4d58-b603-b8b7bc34e853?selection=7747d4ac-15d7-41fd-88c2-25b910266646

Papaya - Example

Sirius Web internal test project

RUN COMMANDS... + K ?

Explorer

Sirius

Sirius Web

Milestone Planning Example

Planning Example

Operational Analysis

Tasks

[4946] Add a loading indicator for publishing a library

[5015] Add the ability to duplicate projects

[5044] Add new options to manage the appearance of rectangular nodes

[5047] Add support for the customization of the appearance of edges

[5045] Add support for the customization of the appearance of image nodes

[5073] Improve support for read only objects in the details view

[5007] Add the ability to use an alternate interpreter in the query view

[4921] Improve the content of the SBOM

[5060] Decouple the invocation of tools from the palette

[4756] Add a first support for the customization of the appearance of nodes

[releng] Switch to Spring Boot 3.5.0

[releng] Switch to Spring Boot 3.4.3

[releng] Switch to Spring Boot 3.4.4

[releng] Switch to Spring Boot 3.4.5

[4098] Cache the AQL services for a given metamodel

[cleanup] Remove the dependency to Guava in sirius-components

[releng] Switch to JaCoCo 0.8.13

[4846] Avoid a database access if not necessary

[3993] Use material-react-table for the project browser

[5051] Lower our dependency to XState

[5024] Add the ability to support images computed dynamically

Iterations

Planning Example

SETTINGS

Search


Settings

Table

Full Screen

| | A Name | B Priority | C Cost | D Done | Actions |
|------|---|---------------|-----------|-----------|---------|
| 4946 | [4946] Add a loading indicator for publishing a library | P3 | 5 | true | ... |
| 5015 | [5015] Add the ability to duplicate projects | P1 | 0 | false | ... |
| 5044 | [5044] Add new options to manage the appearance of rectangular nodes | P2 | 3 | false | ... |
| 5047 | [5047] Add support for the customization of the appearance of edges | P1 | 3 | false | ... |
| 5045 | [5045] Add support for the customization of the appearance of image nodes | P2 | 3 | false | ... |

Rows per page: 5



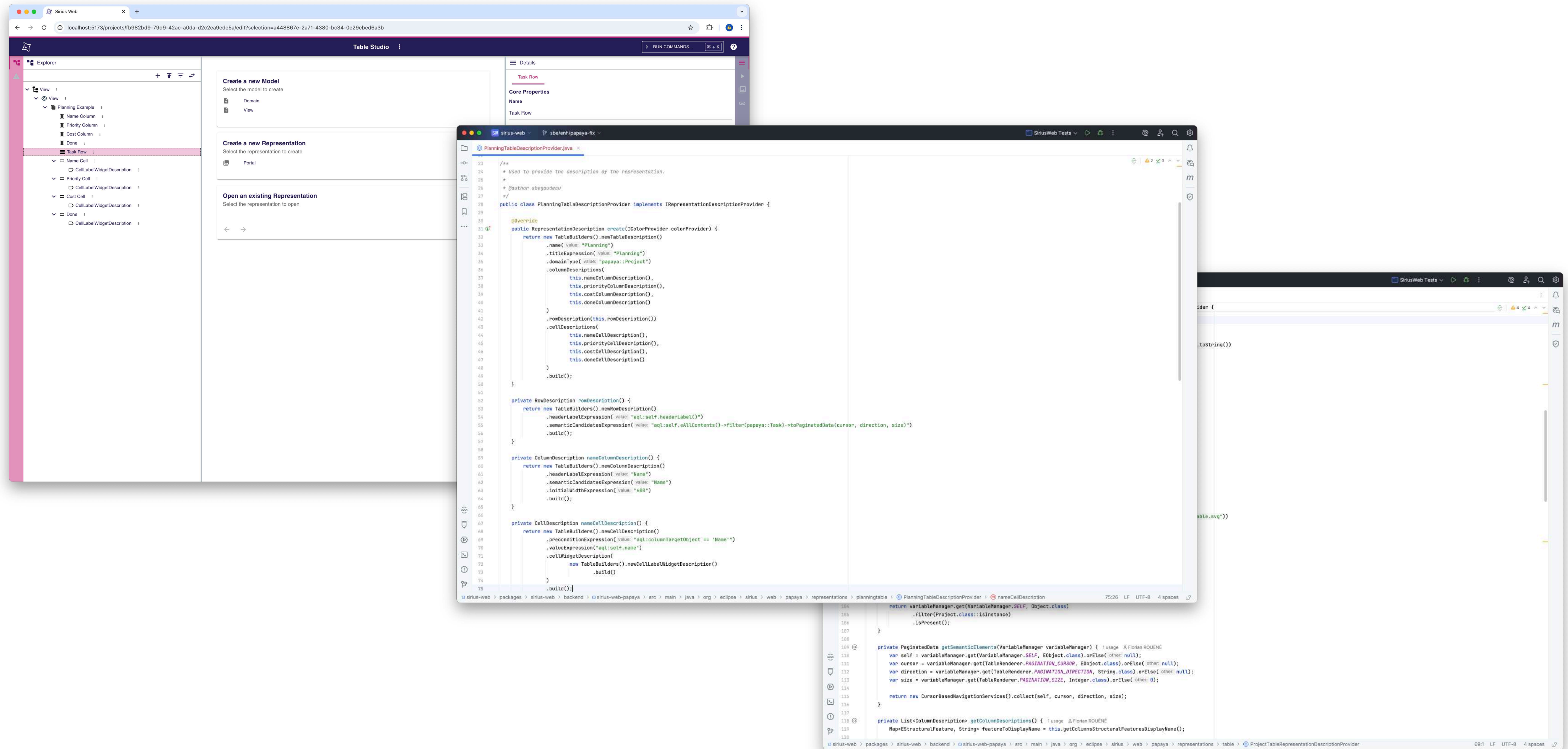
Sirius Web Tables

- Manipulate large set of data
- Same principles as other representations
 - No hypothesis on the shape of your concepts
 - Parameterized by a description
 - Synchronized with your data
 - Updated in real time

Sirius Web Tables

- Table description
 - View DSL in the browser
 - View builder API in Java
 - Low level programmatic API in Java

Sirius Web Tables

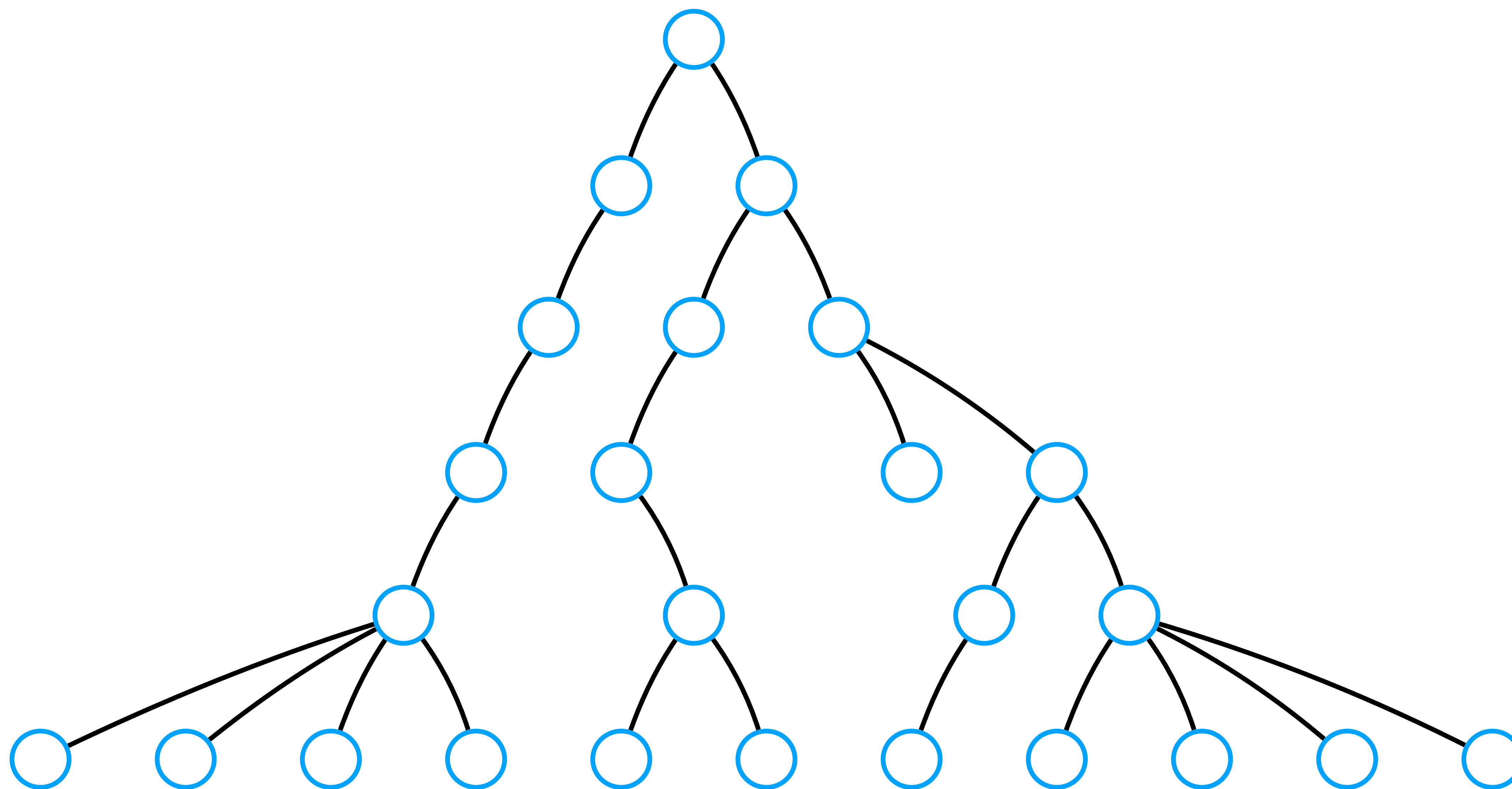


DEMO

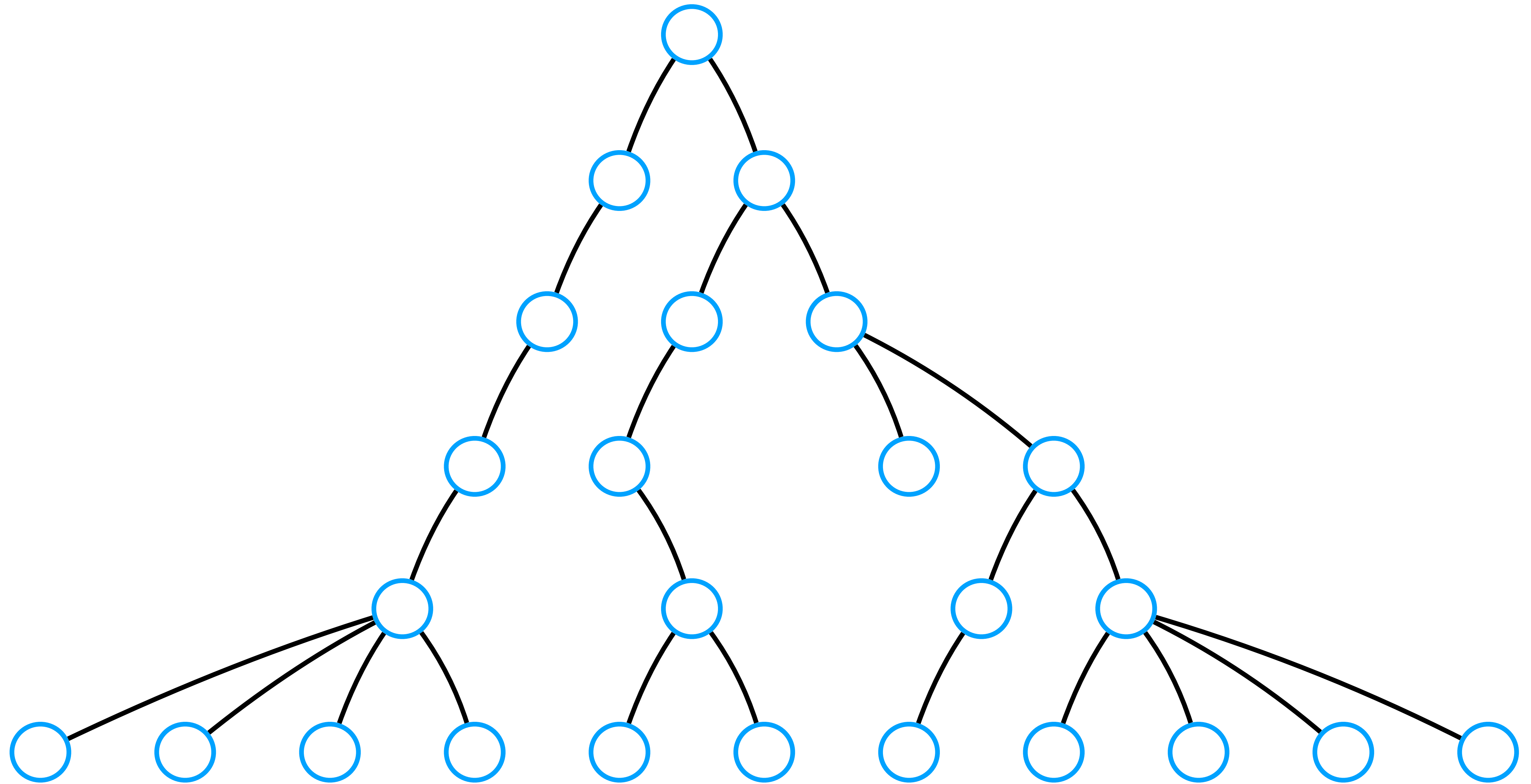
Pagination

Pagination

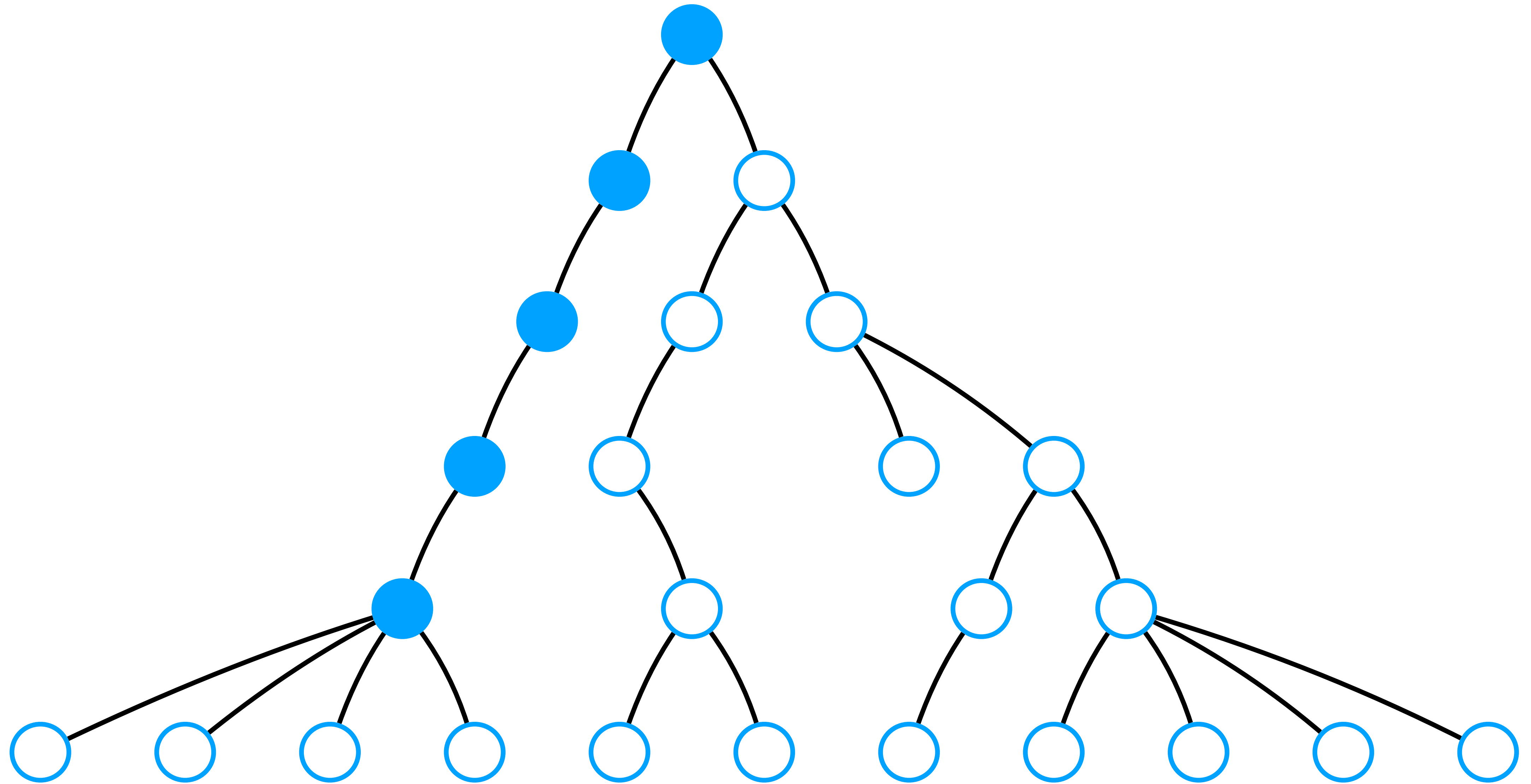
- Server side pagination is compulsory for performance
- Need to render only what the end user is asking
- More powerful semantic candidates expression
 - PaginatedData instead of Collection



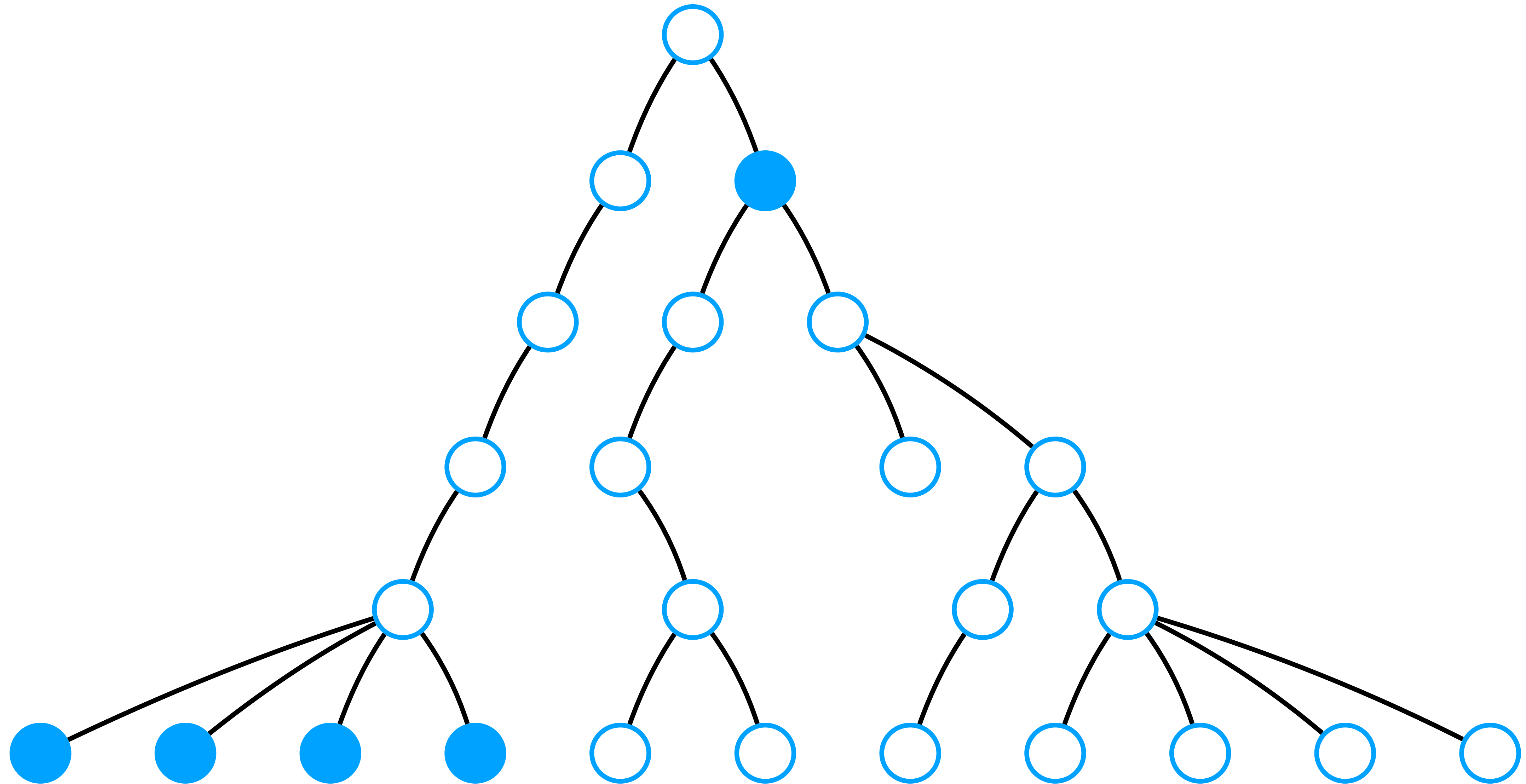
Page n°4 with 5 rows per page?



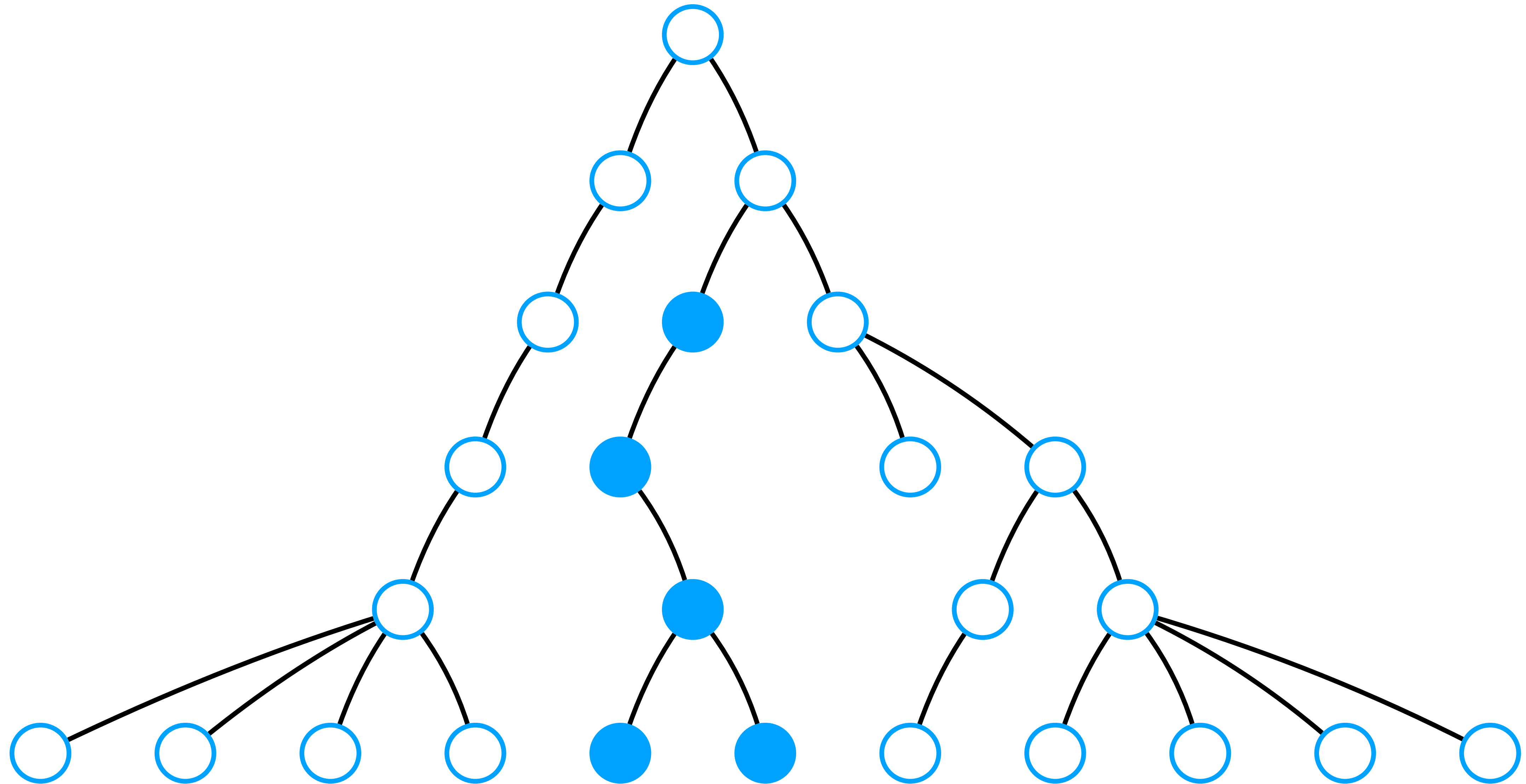
Page n°4 with 5 rows per page?



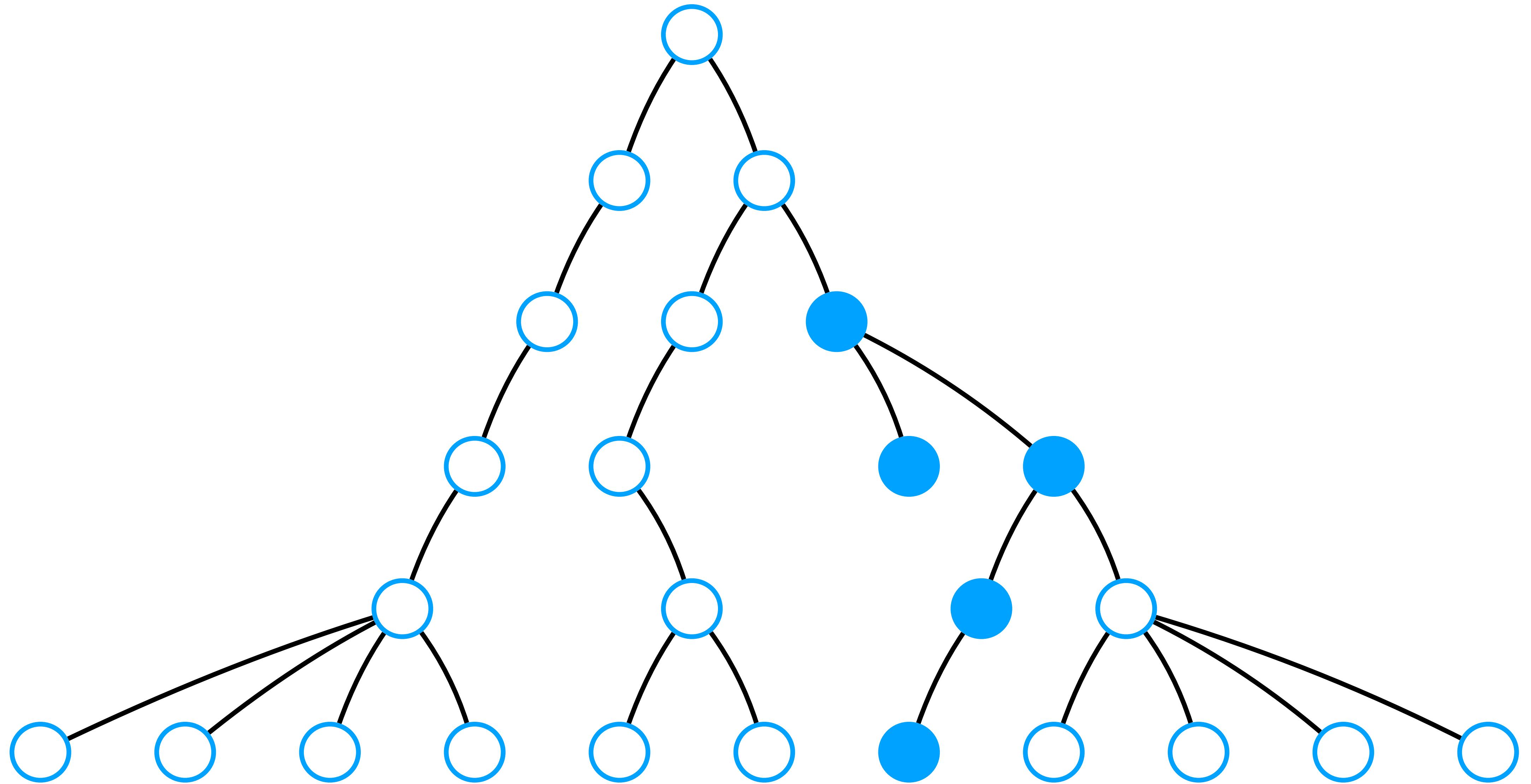
Page n°4 with 5 rows per page?

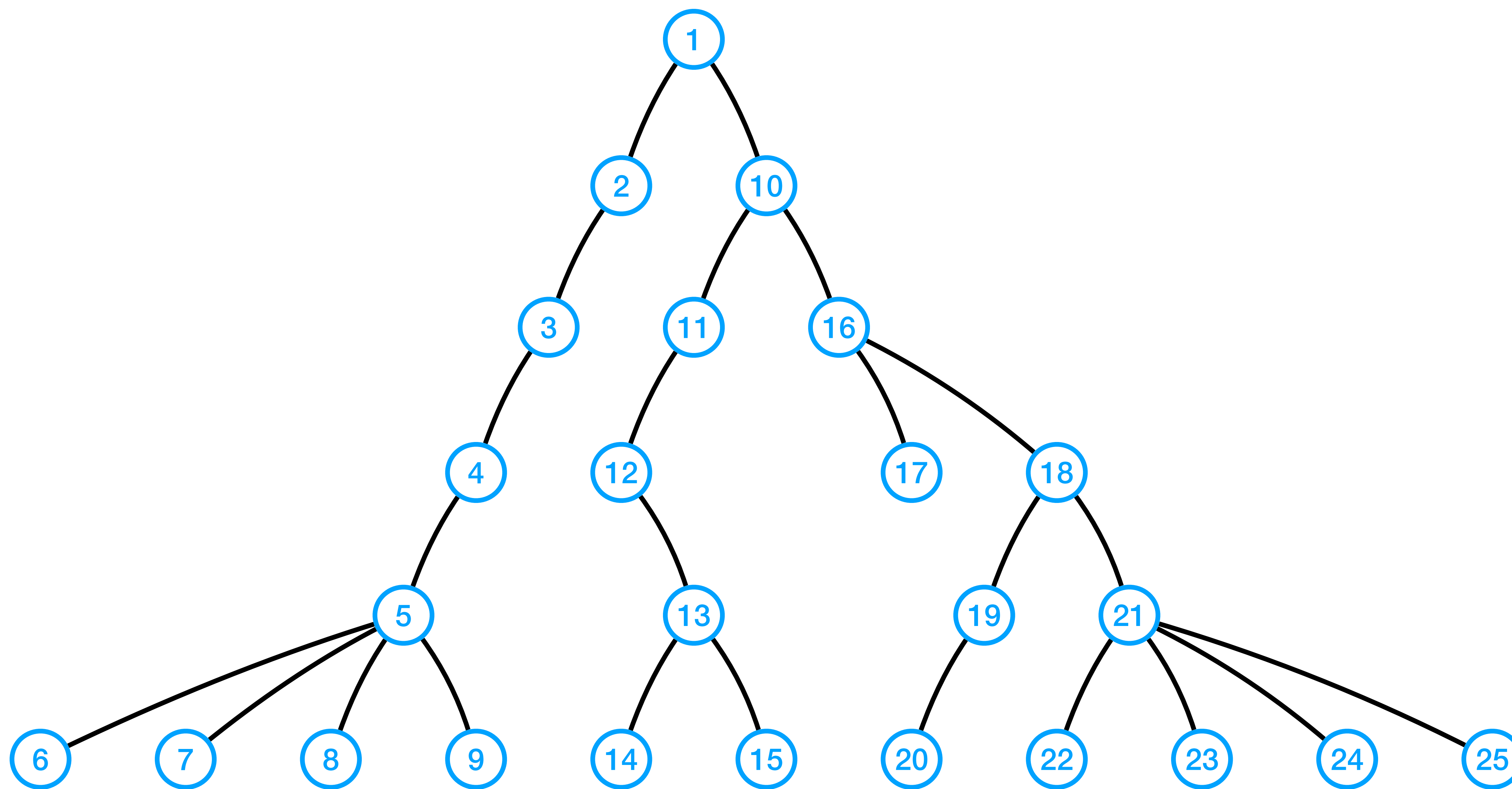


Page n°4 with 5 rows per page?



Page n°4 with 5 rows per page!





Page based approach

Page based approach

- Quite easy to manipulate
- OFFSET & LIMIT
- Page n°4 with 5 objects per page -> n°16 to n°20

16

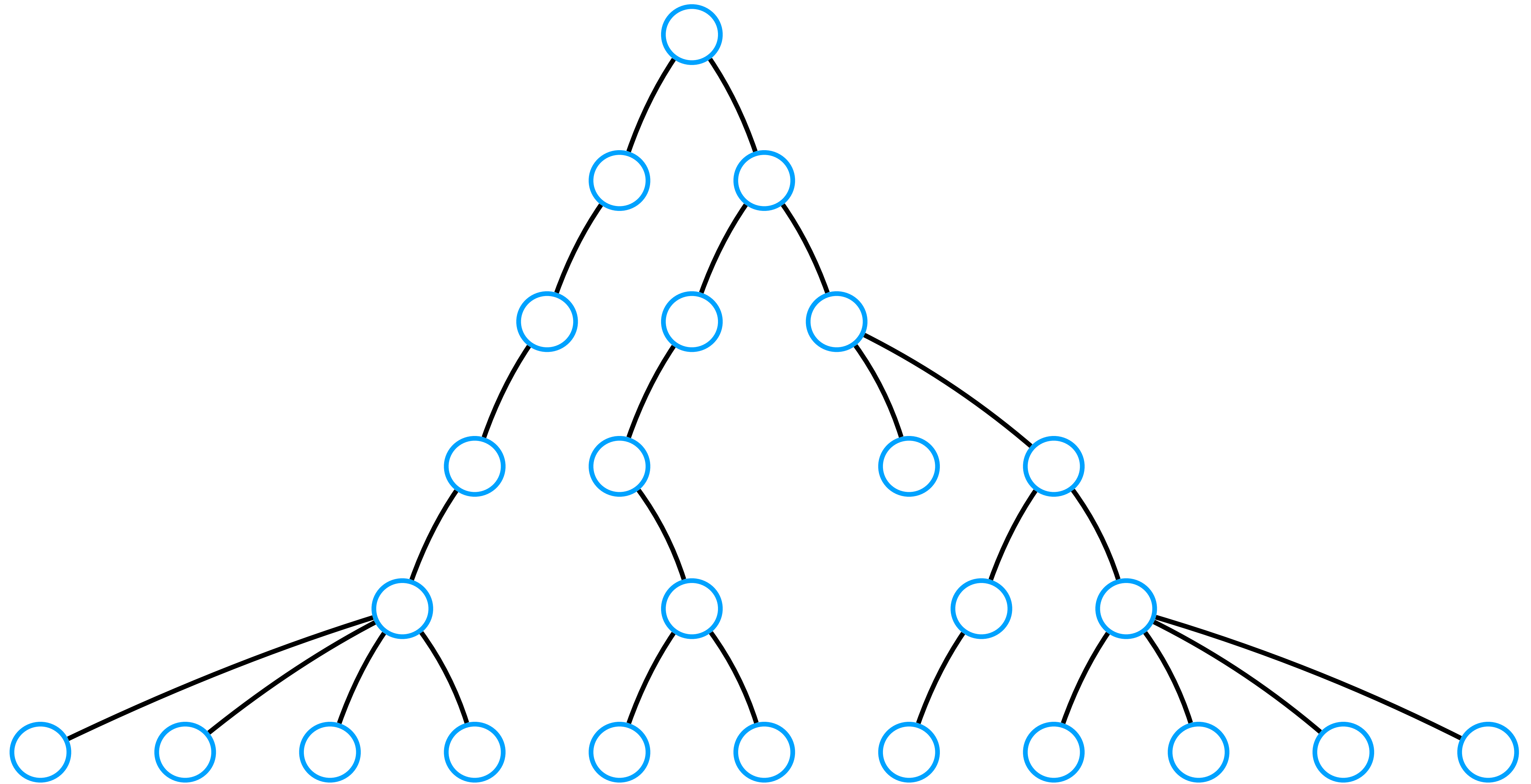
17

18

19

20

Node 16 to 20?

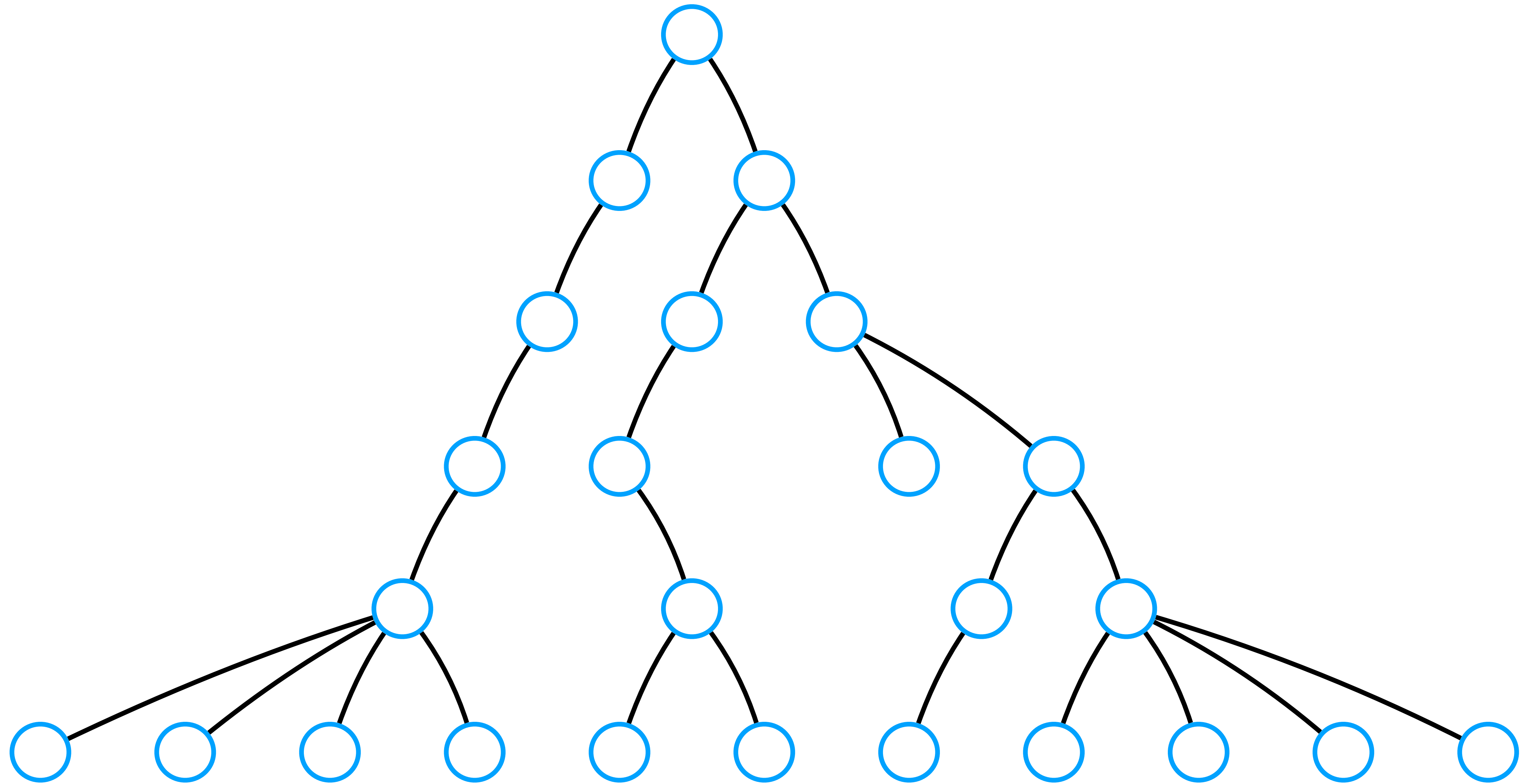


Cursor based approach

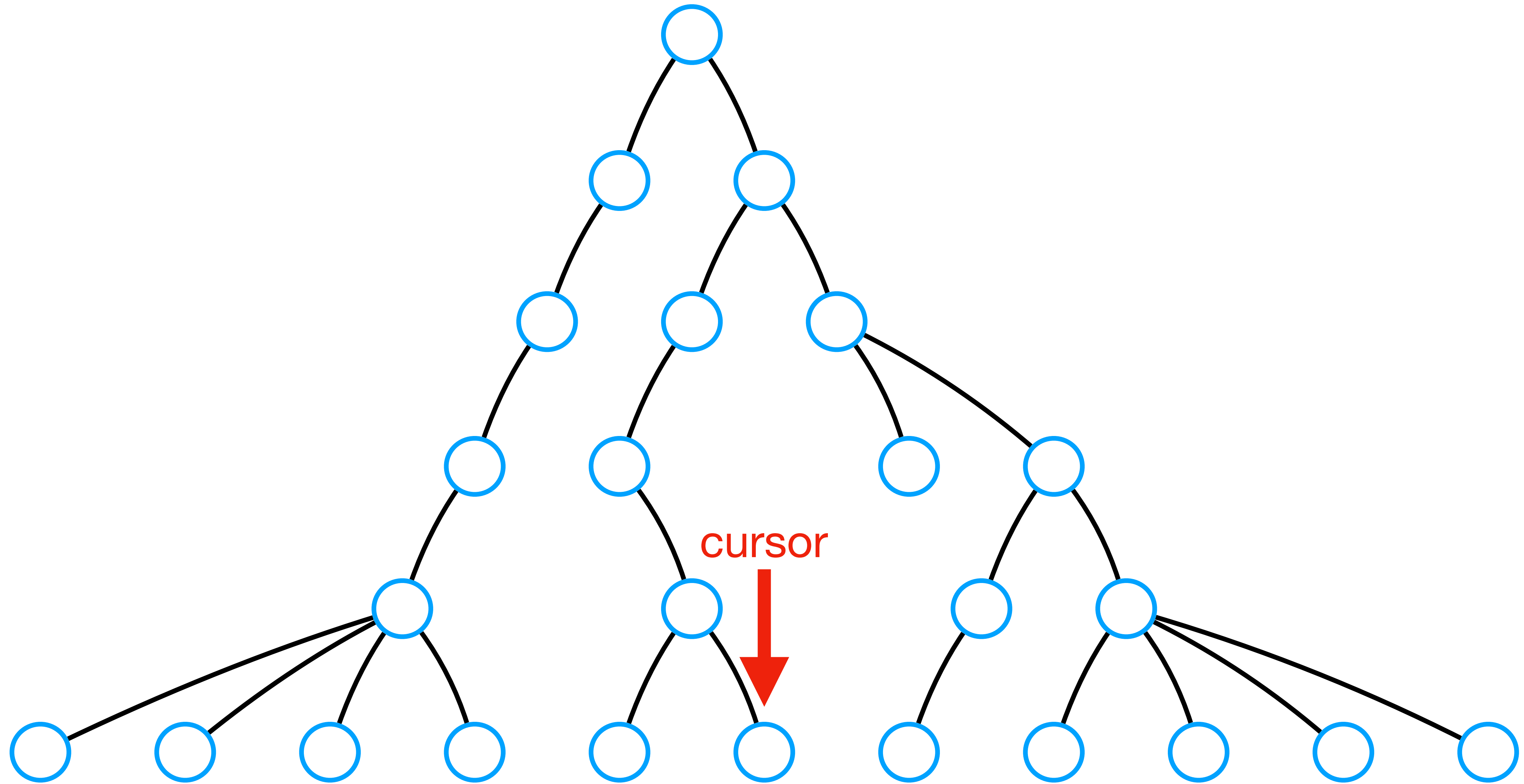
Cursor based approach

- Inspired by GraphQL relay and Spring Data among others
- Give you the ability to write performant tables for large dataset
- Navigate only on the necessary objects
- Dedicated variables that **need** to be used (cursor, search, direction, etc)

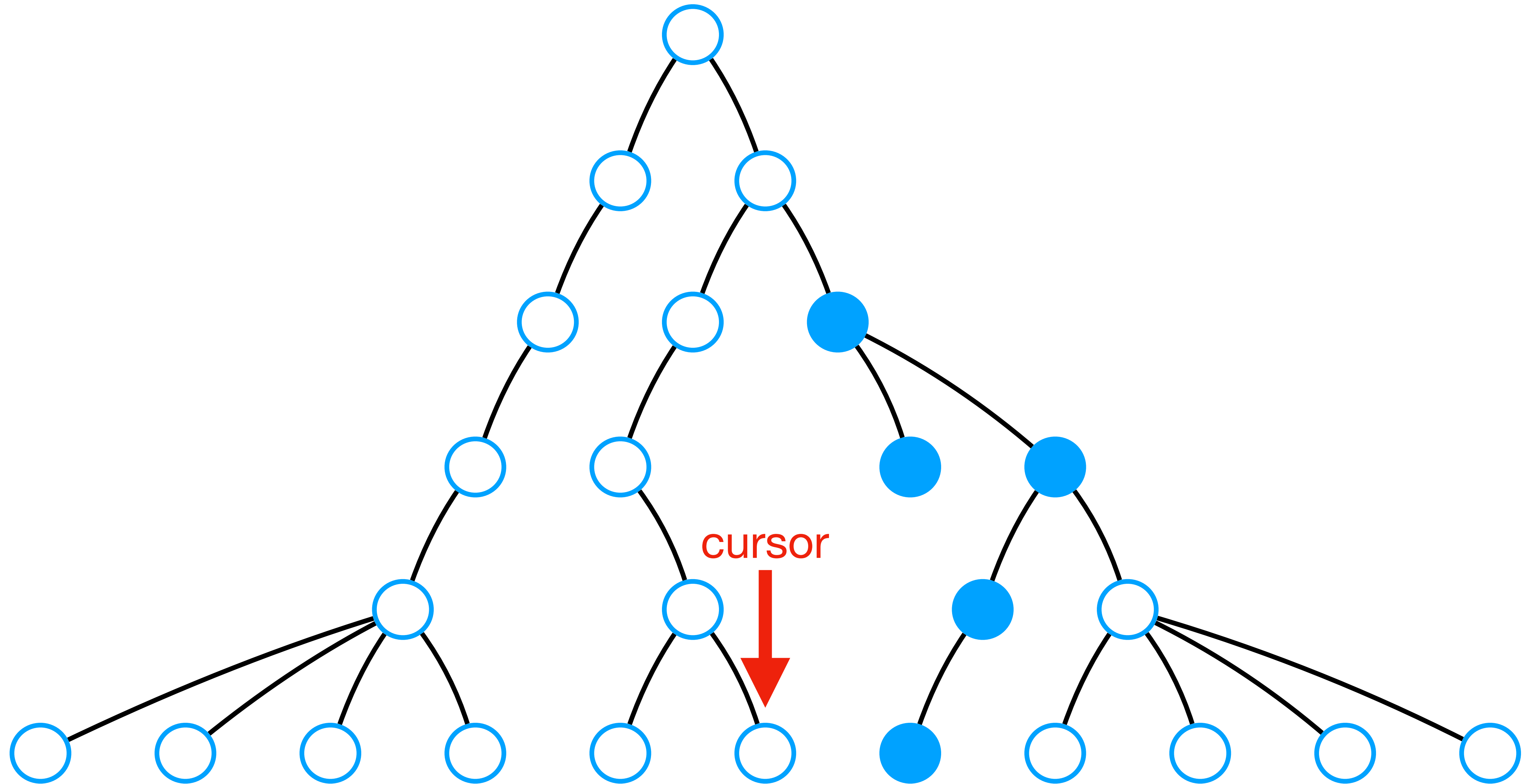
Page n°4 with 5 rows per page?



5 next rows after the cursor?



5 next rows after the cursor?



Pagination

Semantic Candidates Expression

```
aql:self.eAllContents()->filter(papaya::Task)->toPaginatedData(cursor, direction, size)
```

Pagination

```
public class CursorBasedNavigationServices {
    public PaginatedData collect(EObject self, EObject cursor, String direction, int size) {
        return this.collect(self, cursor, direction, size, EObject object -> true);
    }

    public PaginatedData collect(EObject self, EObject cursor, String direction, int size, Predicate<EObject> filter) {
        var rootEObject = self;
        if (cursor != null) {
            rootEObject = cursor;
        }

        boolean isPrevDirection = "PREV".equalsIgnoreCase(direction);

        Iterator<EObject> iterator = new ForwardTreeIterator(rootEObject, includeRoot: cursor == null, filterPredicate: filter);
        if (isPrevDirection) {
            iterator = new BackwardTreeIterator(rootEObject, includeRoot: false, filterPredicate);
        }

        // ... (rest of the code) ...
    }

    public PaginatedData toPaginatedData(List<EObject> objects, Object cursor, String direction, int size) {
        List<EObject> subList = new ArrayList<>();
        boolean hasPrevious = false;
        boolean hasNext = false;

        if (cursor != null) {
            int cursorIndex = objects.indexOf(cursor);
            if (cursorIndex >= 0) {
                if ("NEXT".equalsIgnoreCase(direction)) {
                    int startIndex = cursorIndex + 1;
                    int endIndex = Math.min(startIndex + size, objects.size());
                    // ... (rest of the code) ...
                }
            }
        }

        // ... (rest of the code) ...
    }
}
```

```
public class ForwardTreeIterator implements Iterator<EObject> {
    private final Predicate<EObject> filterPredicate;
    private EObject rootEObject;

    private boolean includeRoot;

    private List<Iterator<EObject>> iterators;

    private Iterator<EObject> nextPruneIterator;

    private Iterator<EObject> nextRemoveIterator;

    public ForwardTreeIterator(EObject rootEObject, boolean includeRoot, Predicate<EObject> filterPredicate) {
        this.rootEObject = Objects.requireNonNull(rootEObject);
        this.filterPredicate = Objects.requireNonNull(filterPredicate);
        this.includeRoot = includeRoot && filterPredicate.test(rootEObject);
    }

    // ... (rest of the code) ...
}
```

public class ForwardTreeIterator implements Iterator<EObject>

Sirius Web Tables

- Edit with various widgets
 - Textfield
 - Checkbox
 - Select
 - Custom widget

DEMO

Filtering

Sirius Web

localhost:5173/projects/c62bd387-c202-4583-b6a3-df1b92b2b911/edit/fd8cbe2c-81bc-4a90-a3bb-859fc0e25141?selection=f8cbe2c-81bc-4a90-a3bb-859fc0e25141

Papaya - Example
Sirius Web internal test project

RUN COMMANDS... + K ?

Explorer

- Sirius
 - Sirius Web
 - Milestone Planning Example
 - Planning Example
 - Operational Analysis
 - Tasks
 - Iterations

SETTINGS

appearance

| | A Name | B Priority | C Cost | D Done | Actions |
|------|---|-----------------|-----------|----------------|---------|
| | Filter by Name | Filter by Pr... | Min Max | Filter by D... | |
| 5044 | [5044] Add new options to manage the appearance of rectangular nodes | P2 | 3 | false | ... |
| 5047 | [5047] Add support for the customization of the appearance of edges | P1 | 3 | false | ... |
| 5045 | [5045] Add support for the customization of the appearance of image nodes | P2 | 3 | false | ... |
| 5046 | [5046] Add new options to manage the appearance of labels | P1 | 2 | false | ... |
| 4756 | [4756] Add a first support for the customization of the appearance | P1 | 0 | true | ... |

Rows per page: 20

Sorting

Sirius Web

localhost:5173/projects/c62bd387-c202-4583-b6a3-df1b92b2b911/edit/fd8cbe2c-81bc-4a90-a3bb-859fc0e25141?selection=fd8cbe2c-81bc-4a90-a3bb-859fc0e25141

Papaya - Example

Sirius Web internal test project

RUN COMMANDS...⌘+K?

Explorer

Sirius

Sirius Web

Milestone Planning Example

Planning Example

Operational Analysis

Tasks

Iterations

Planning Example

SETTINGS

Sorted by Name descending

| | A Name | B Priority | C Cost | D Done | Actions |
|------|---|---------------|-----------|-----------|---------|
| 5047 | [5047] Add support for the customization of the appearance of edges | P1 | 3 | false | ... |
| 5046 | [5046] Add new options to manage the appearance of labels | P1 | 2 | false | ... |
| 5045 | [5045] Add support for the customization of the appearance of image nodes | P2 | 3 | false | ... |
| 5044 | [5044] Add new options to manage the appearance of rectangular nodes | P2 | 3 | false | ... |
| 4756 | [4756] Add a first support for the customization of the appearance | P1 | 0 | true | ... |

Rows per page: 5

DEMO

Sub Rows

Sirius Web

localhost:5173/projects/c62bd387-c202-4583-b6a3-df1b92b2b911/edit/52421e4a-9c29-4bfc-86ba-23158e4fdb3d?selection=34189e20-d388-4610-8c77-2aec624506ab

Papaya - Example

RUN COMMANDS... +K ?

Explorer

Sirius

Sirius Web

Milestone Planning Example

Planning Example

Operational Analysis

Tasks

Iterations

2025.4.0

2025.6.0

2025.8.0

Milestone Planning Example

SETTINGS

Search

Done

Actions

| | Name | | |
|---|----------|--|-----|
| 0 | 2025.4.0 | 2025.4.0 | ... |
| 1 | releng | [releng] Switch to Spring Boot 3.4.3 | ... |
| 2 | 2025.6.0 | 2025.6.0 | ... |
| 3 | 4946 | [4946] Add a loading indicator for publishing a library | ... |
| 4 | 4756 | [4756] Add a first support for the customization of the appearance | ... |
| 5 | releng | [releng] Switch to Spring Boot 3.4.4 | ... |
| 6 | releng | [releng] Switch to Spring Boot 3.4.5 | ... |
| 7 | 4098 | [4098] Cache the AQL services for a given metamodel | ... |
| 8 | cleanup | [cleanup] Remove the dependency to Guava in sirius-components-emf | ... |
| 9 | releng | [releng] Switch to JaCoCo 0.8.13 | ... |

Rows per page: 10

Sirius Web Tables

- Display data in a tabular view
- Edition with dedicated widget
- Pagination
- Edition
- CSV export
- Filtering
- Sorting
- Subrows
- And more...

Table within a form

The screenshot displays the Sirius Web IDE interface. On the left, the Explorer panel shows a project structure with a 'Concept' class selected. The central workspace shows a class diagram for 'Concept' with three compartments: 'Concept', 'Attributes', and 'Operations'. The 'Attributes' compartment contains a table with two rows: 'name' and 'description'. The right panel shows the 'Details' view for the 'Concept' class, including 'Core Properties', 'Description', 'Visibility', and 'Additional Information'. The 'Additional Information' section contains a table with columns for 'Visibility' and 'Actions'.

Concept

| Attributes | |
|-------------|--|
| name | |
| description | |

Operations

Details

Concept

Core Properties

Name

Concept

Description

Description

Visibility

PUBLIC

☐ Abstract

☐ Final

☐ Static

Additional Information

Attributes

SETTINGS

| | Visibility | Actions |
|-------------|------------|---------|
| name | PUBLIC | ... |
| description | PUBLIC | ... |

Learn more

Follow these links to view the code of this Sirius Web internal test project on Github.

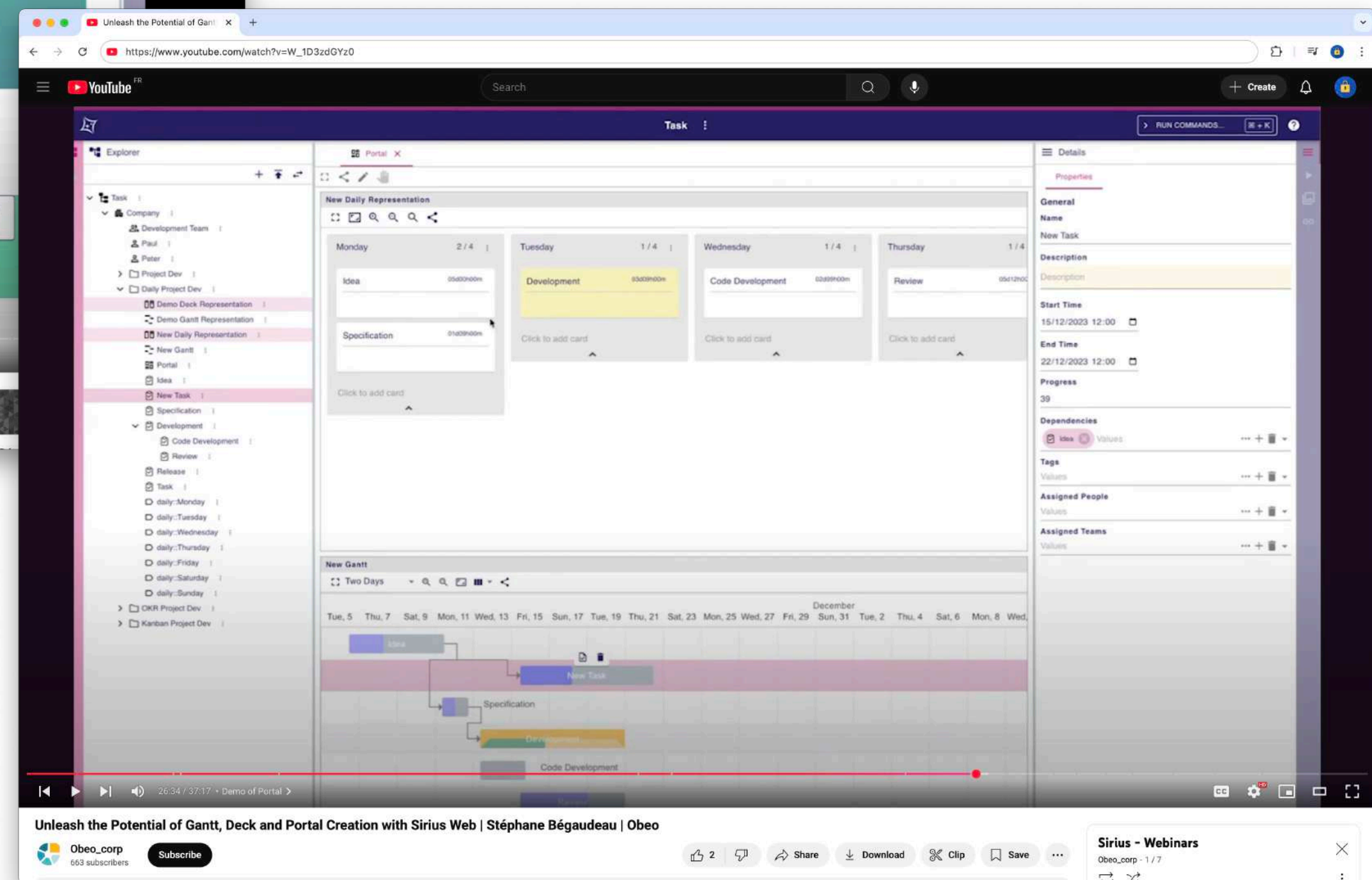
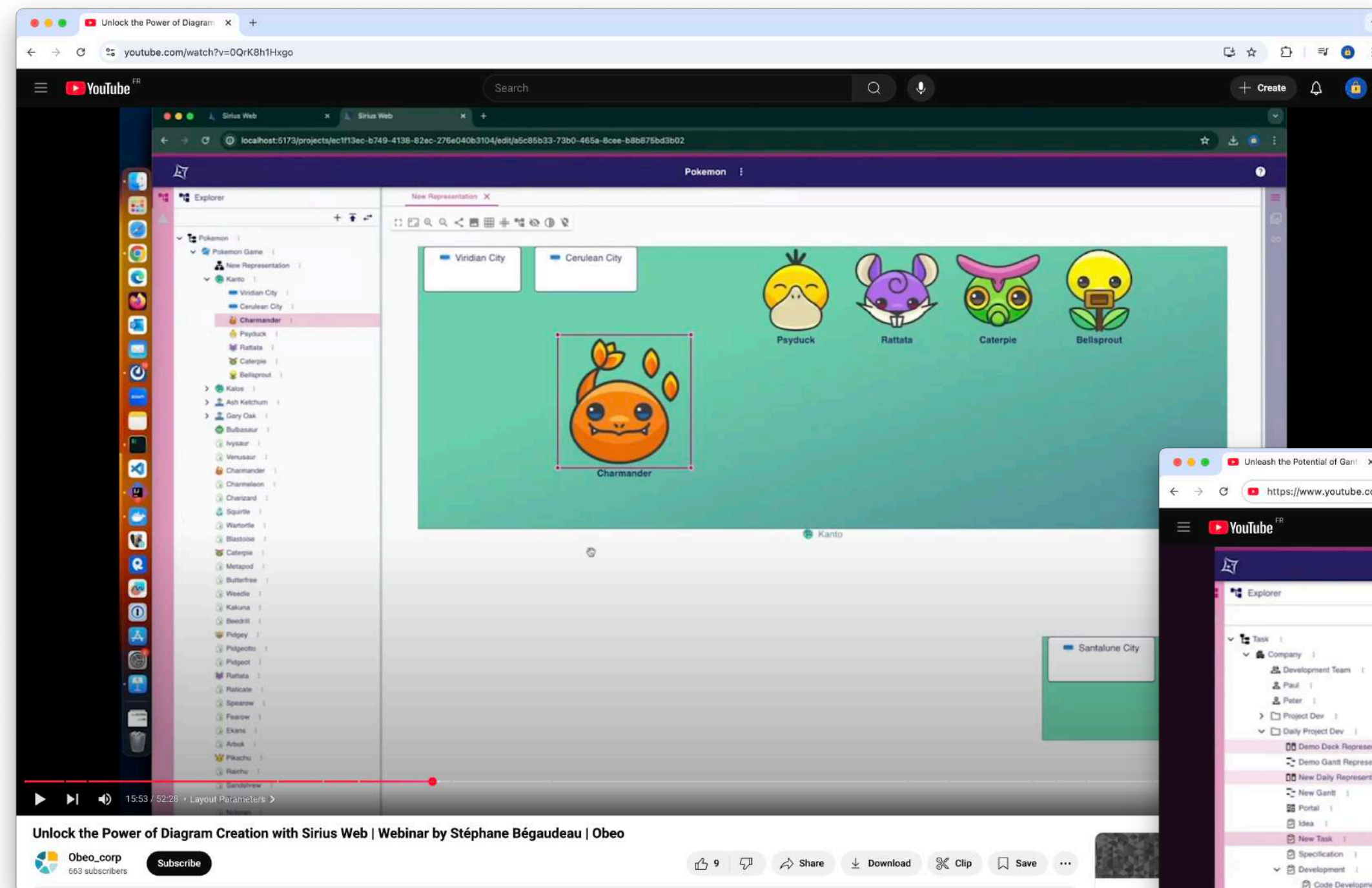
- Backend code
- Frontend code

Conclusion

Representations

- **Diagram**
- **Deck**
- **Gantt**
- **Portal**
- **Table**
- **Form**
- **Tree**

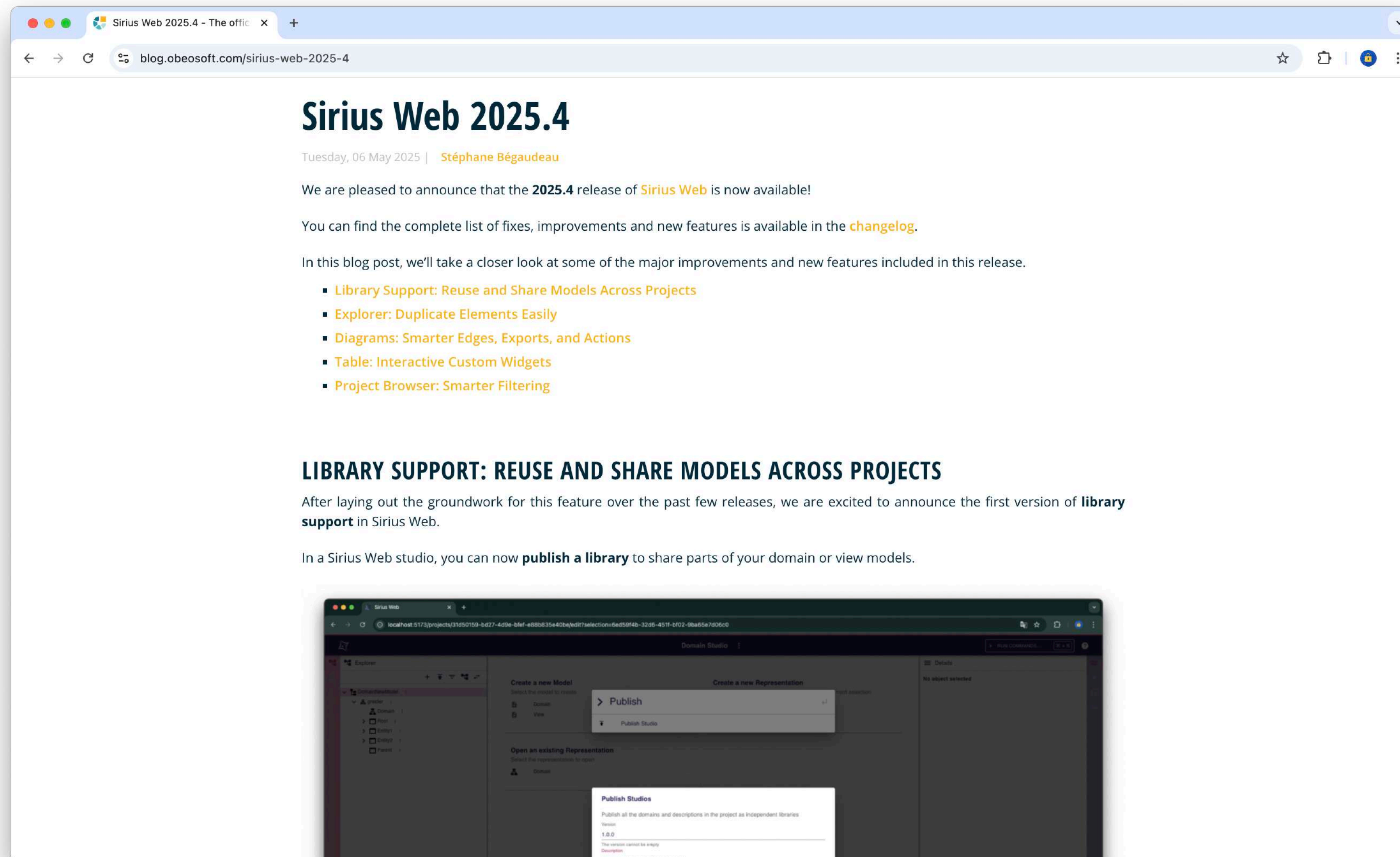
Webinars



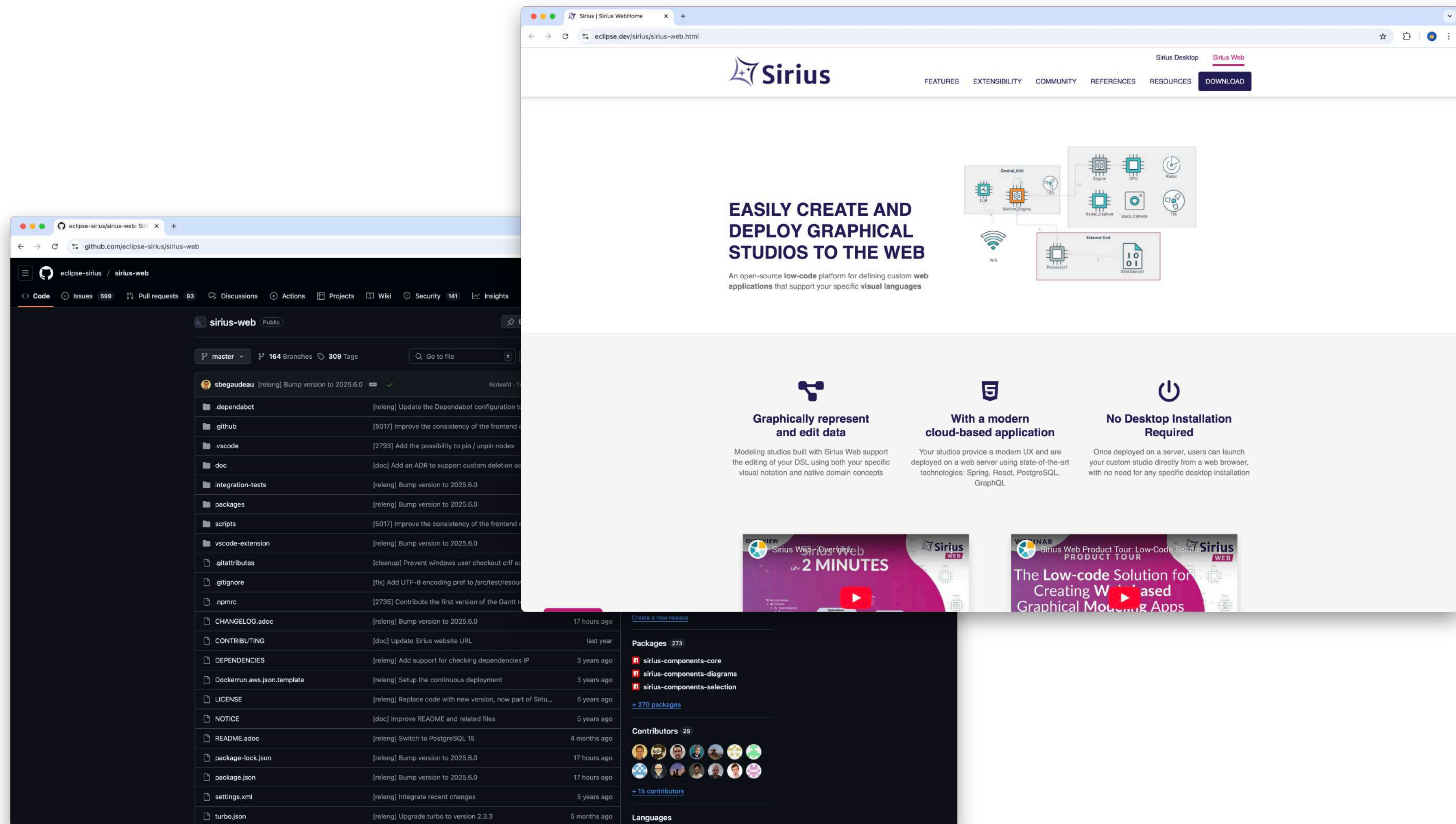
Webinars

- Diagrams <https://www.youtube.com/watch?v=0QrK8h1Hxgo>
- Gantt, Deck & Portal https://www.youtube.com/watch?v=W_1D3zdGYz0
- Product tour, roadmap...

https://blog.obeosoft.com



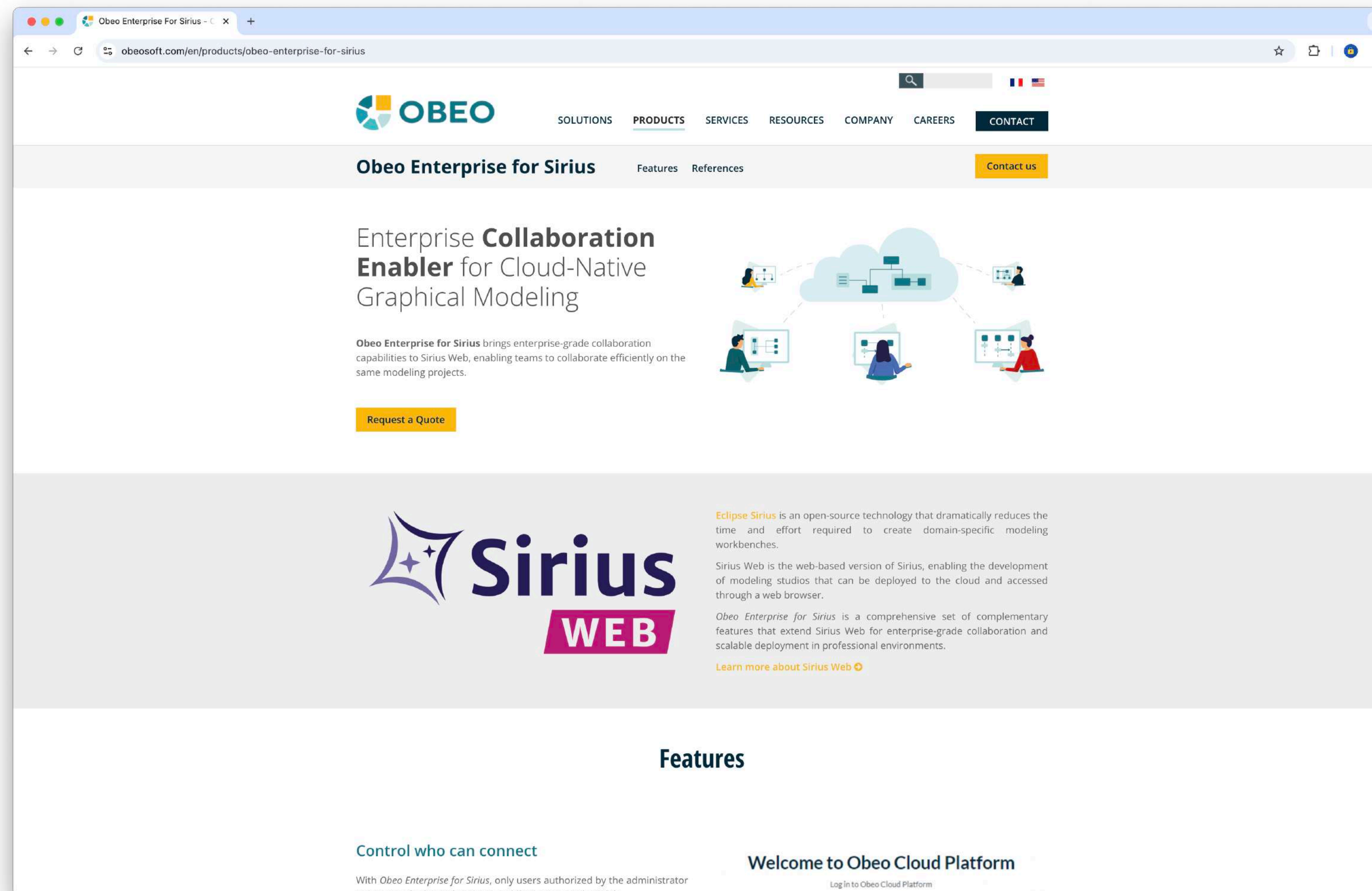
https://eclipse.dev/sirius/sirius-web.html



How to get started?

- Download Sirius Web and run it
 - See <https://github.com/eclipse-sirius/sirius-web>
- Integrate parts of Sirius Web in your own application
- Build a Sirius Web based application

Obeo Enterprise for Sirius



Obeo Enterprise for Sirius

- Extension for Sirius Web based applications
 - Authentication (login + password, OAuth2)
 - Authorization (private projects, team based access control, ...)
 - Webhooks
 - And more

Thank you for watching!

Questions?