

# **Enterprise Information Systems Lab**

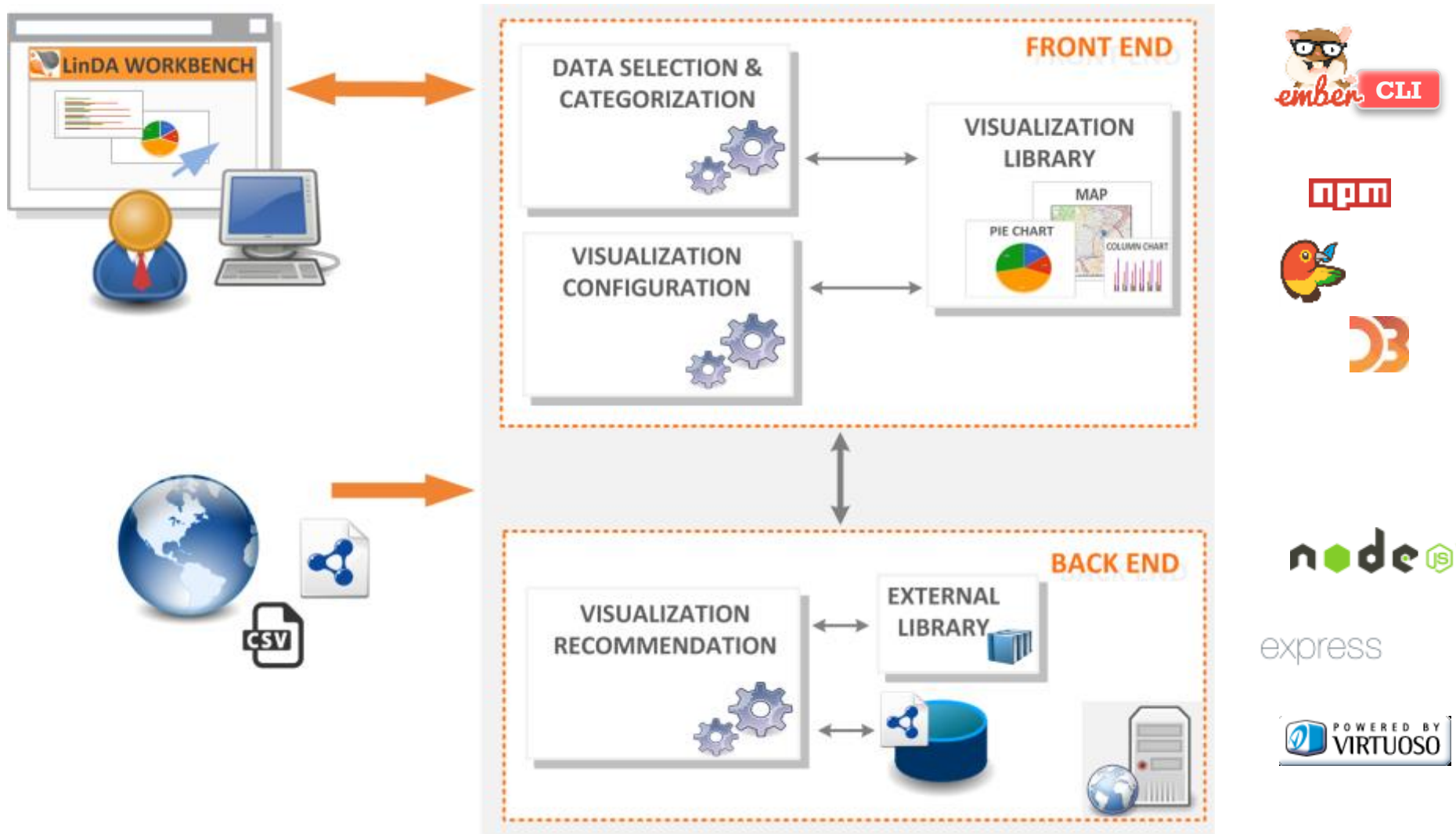
## **Linked Data + Visualization and Exploration**

**Mentor:  
K. Thellmann**

**Group Members:  
Alina Arunova (L)  
David Ibhaluobe  
Tatiana Novikova**



# Architecture



# + Front-end & Back-end

The **LinkDaViz** tool is a JavaScript based web application  
It receives as input data in RDF or tabular format.



## The frontend module:

- a component for data selection,
- the visualization widgets library,
- a component for configuring a visualisation.

## The backend module:

- computing visualization recommendations,
- acts as a data storage for visualization metadata and saved visualizations.



The **triplestore** contains the visualization ontology and the datasets.

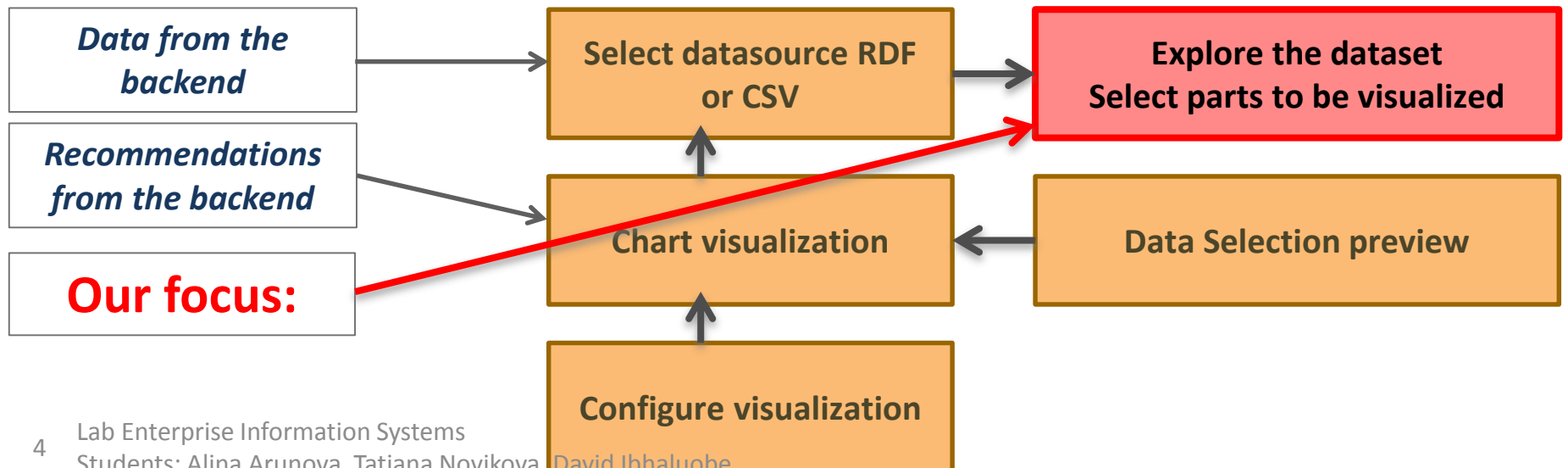
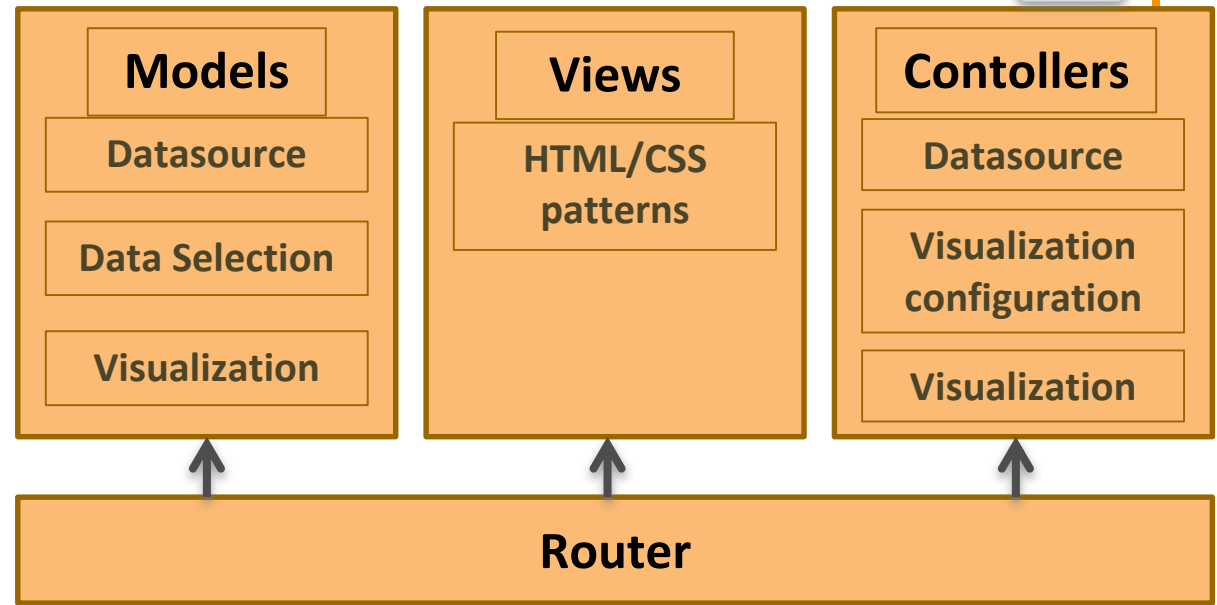


# + Front end:

Is implemented in **Ember.js** an open source client side JavaScript MVC framework.

**Ember.js** follows strict conventions for building applications: this makes it less flexible but easier to test.

Ember JS Front-End (MVC)



# + What we have now:

 LinDaViz

Explore and Select Data

- ☒ Observation class
  - ☒ Precipitation Deviation number
    - type resource
  - ☒ Month number
- ☐ dataSet resource
  - ☒ structure resource
    - type resource
  - ☐ label string
- ☒ Quality Deviation number
- ☐ ComponentSpecification class
  - type resource
- ☐ dimension resource
  - label string
- ☐ measure resource
- ☐ DataStructureDefinition class
- ☐ MeasureProperty class
- ☐ DataSet class
- ☐ DimensionProperty class
- ☐ Ontology class


Preview Data Selection

Show  entries

Search:

Precipitation Deviation	Month	Quality Deviation
-1.118	8	-0.06
-0.999	7	-0.028
-0.569	6	0.011
-0.323	4	0.02
-0.195	10	-0.046
-0.092	9	-0.629
-0.085	5	0.029
0.005	12	0.05
0.01	11	0
0.117	1	-0.046

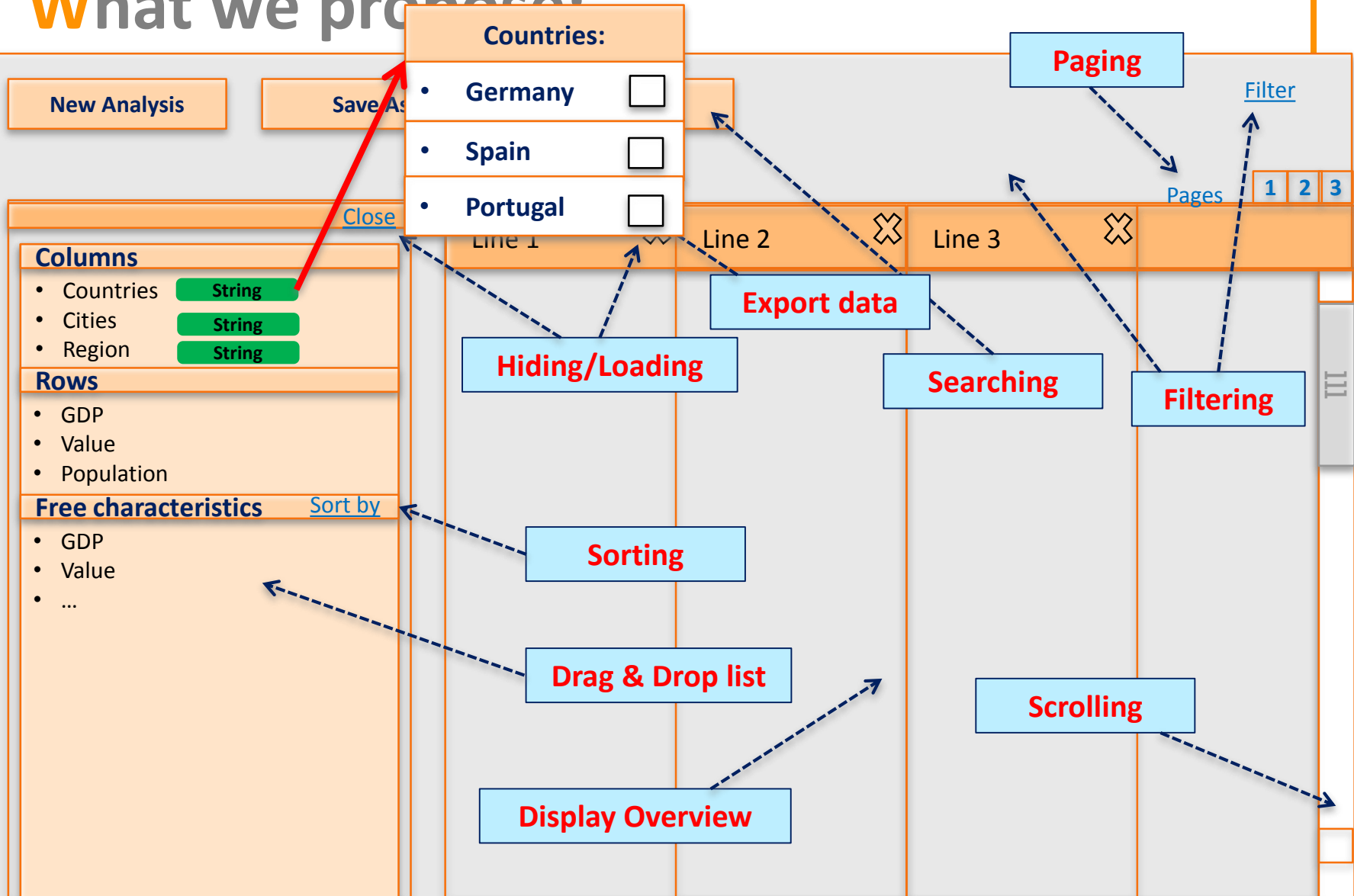
Showing 1 to 10 of 12 entries

 Visualize

Previous  2 Next



# What we propose:





**Thank you!**