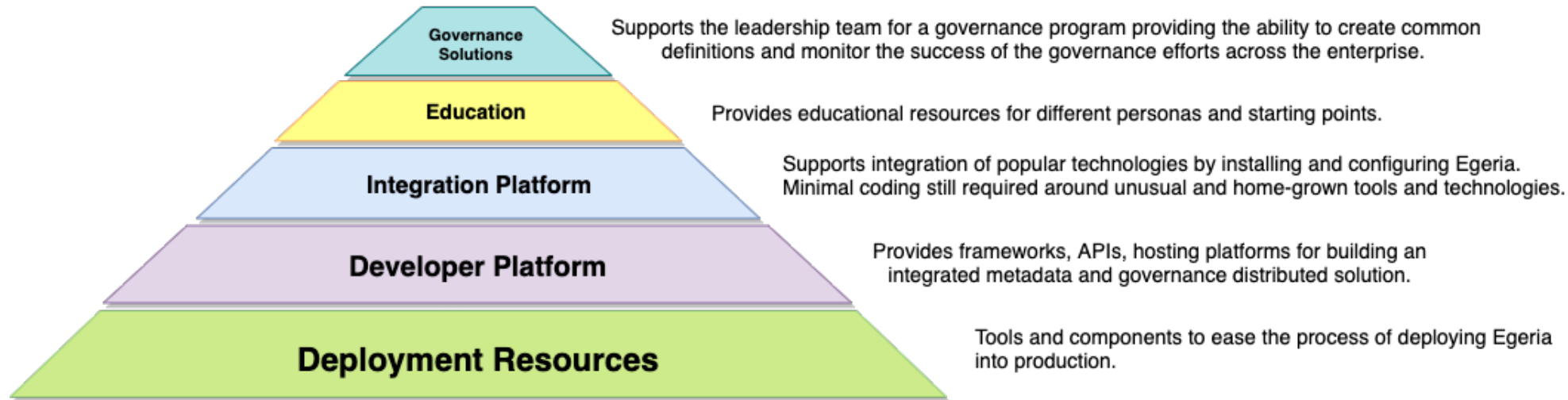
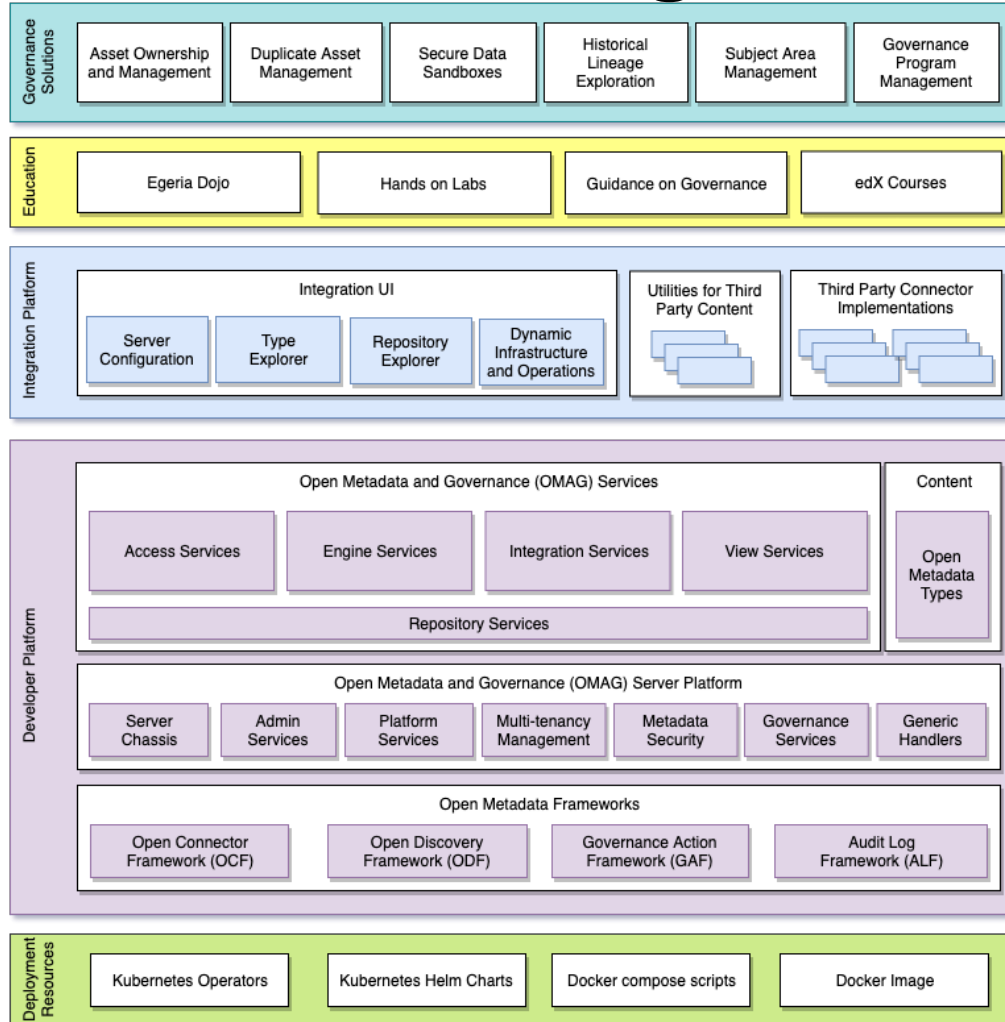


Egeria React UI and the architecture behind it

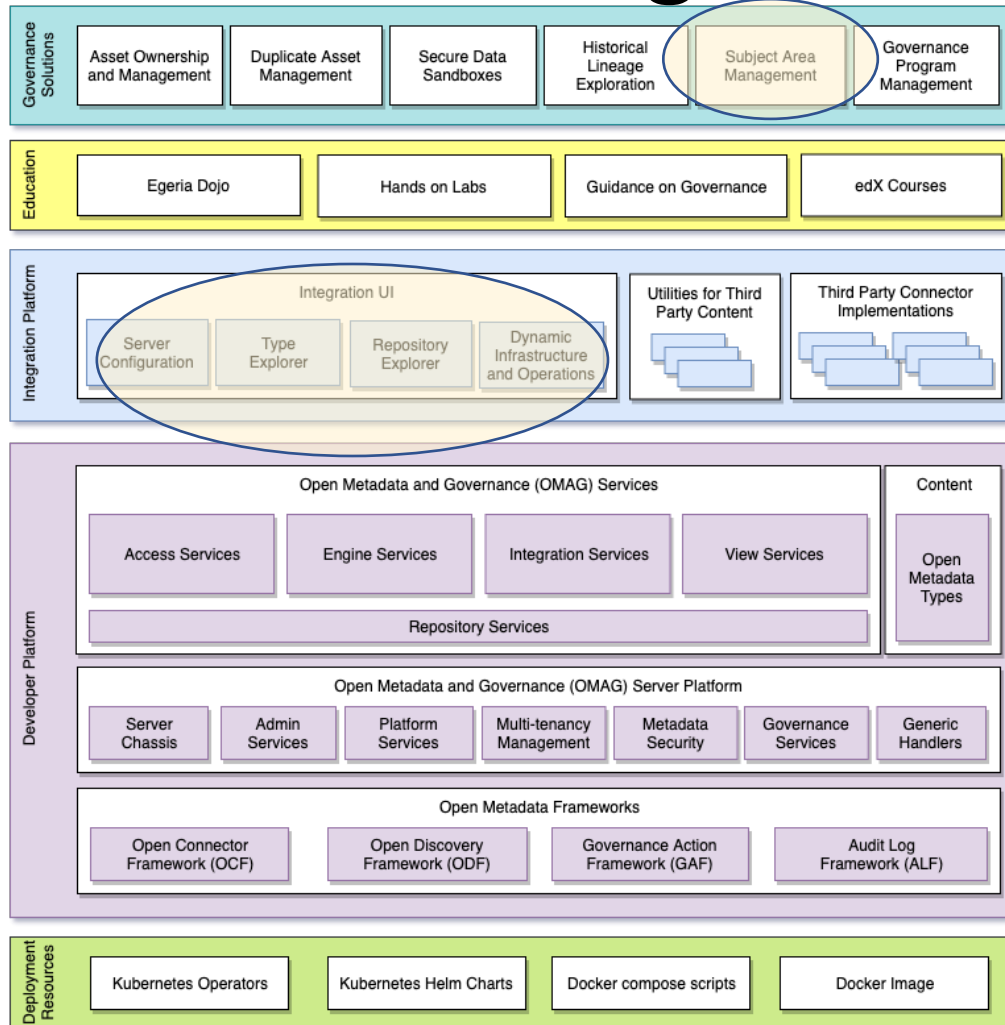
David Radley



Functional organisation



Functional organisation



Home

Solutions ^

Glossary Author

Ecosystem Tools ^

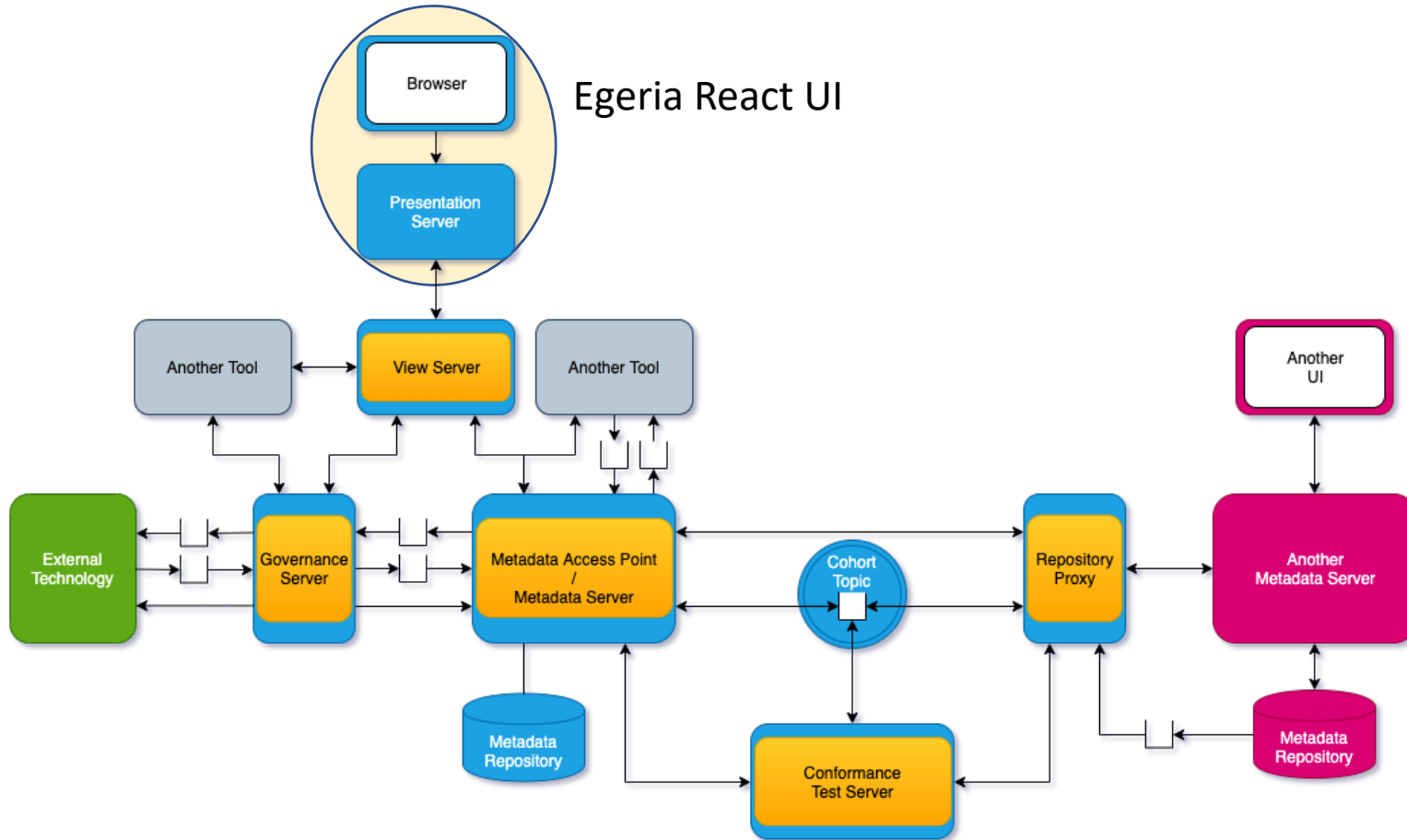
Repository Explorer

Type Explorer

Server Author

Dino

The high level architecture



<https://egeria.odpi.org/open-metadata-publication/website/planning-guide/>

Github

<https://github.com/odpi/egeria-react-ui>

Please star us if you haven't

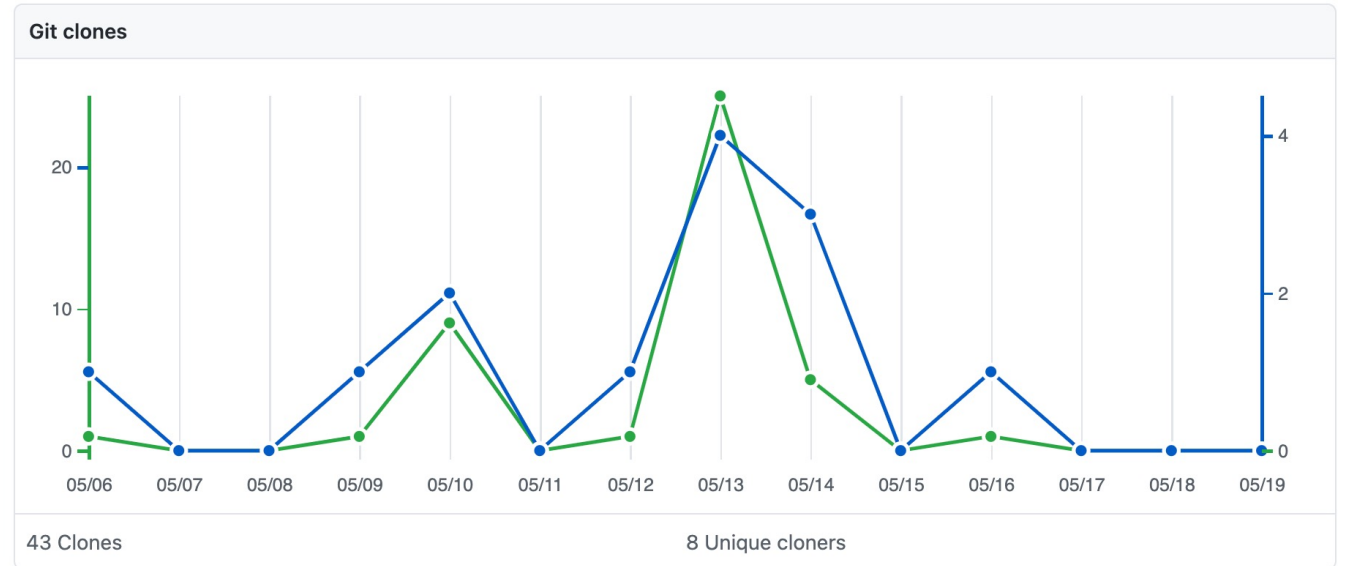
FE Developers with these skills, can become a valued contributor quickly:

Javascript

Node

React

Web pack



Checklist - before you run the UI

- Have you got Egeria platform running , in one of the following ways:
 - Locally
 - Kubenetes
 - Docker Compose
- Work out which servers you need. I minimal scenario would be a metadata server and a view server
- Work out which UI capability you want to use and configure the appropriate View services and Access Services.

UI and view services

UI Capability	View Service	View service target
Tex	Tex	OMRS
Rex	Rex	OMRS
Dino	Dino	OMRS
Glossary Author	Glossary author	Subject Area OMAS
Server Author	Server Author (not their yet)	Admin server and platform services

Expect the following OMVS's to be configured and started for a fully functioning UI.

```
"class": "SuccessMessageResponse",  
"relatedHTTPCode": 200,  
"successMessage": "Wed May 19 11:21:39 BST 2021 cocoView1 is running the following services: [Open Metadata Repository Services (OMRS),  
Glossary Author OMVS, Repository Explorer OMVS, Dynamic Infrastructure and Operations OMVS, Type Explorer OMVS]"
```


Configuration and starting the presentation server

Assuming you have a running Egeria including view services. Clone the Git repo

In cra-server folder. Create a .env file containing (you can use environment variables – remember to escape /):

```
EGERIA_PRESENTATIONSERVER_SERVER_coco={"remoteServerName":"cocoView1","remoteURL":"https://localhost:9443"}
```

tenant

Tenant endpoint

Production

Development

- In cra-client folder

```
npm install
```

```
npm run build
```

- In cra-server folder

```
npm install
```

```
npm run prod
```

- In cra-client folder

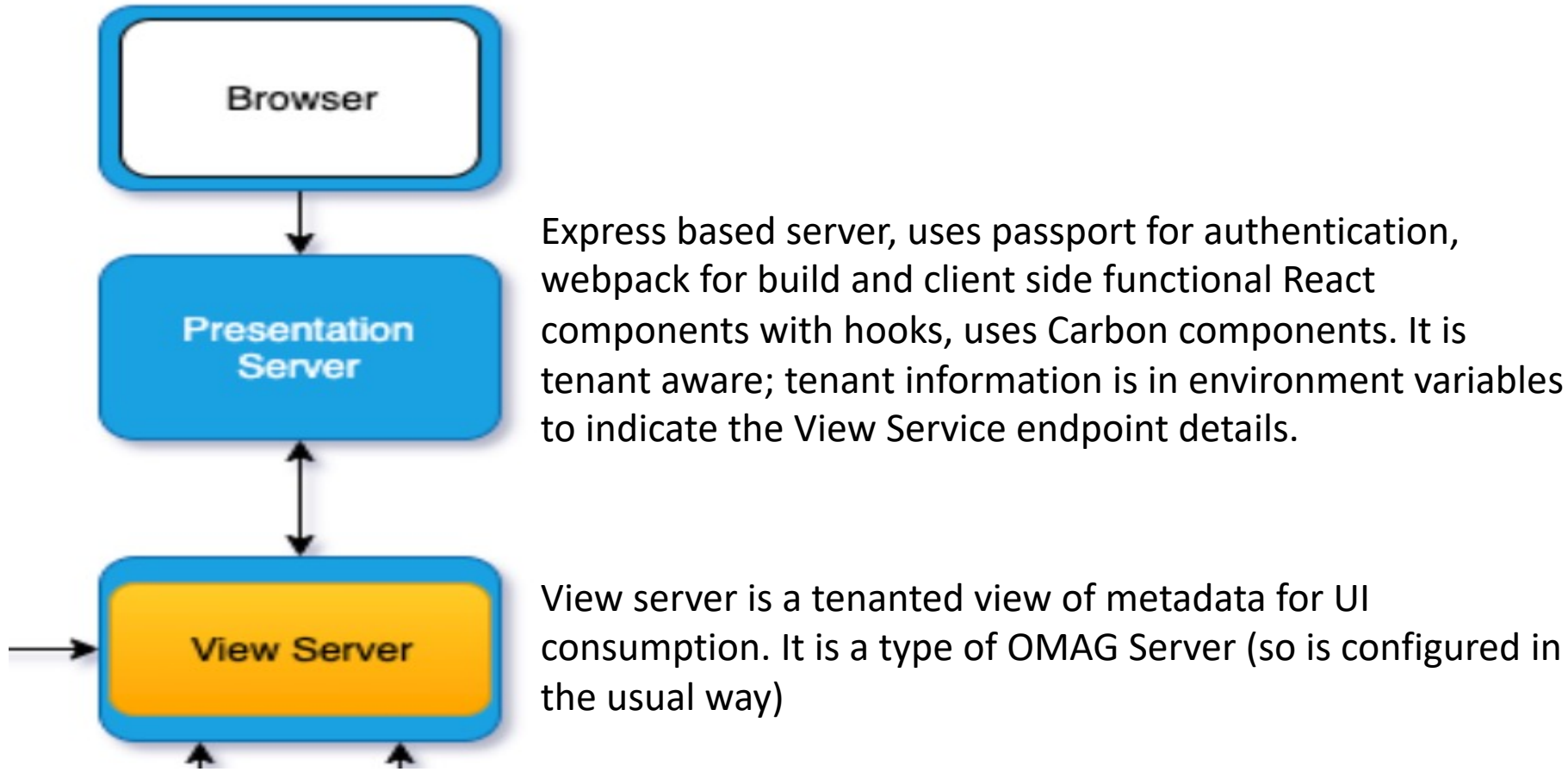
```
npm install
```

- In cra-server folder

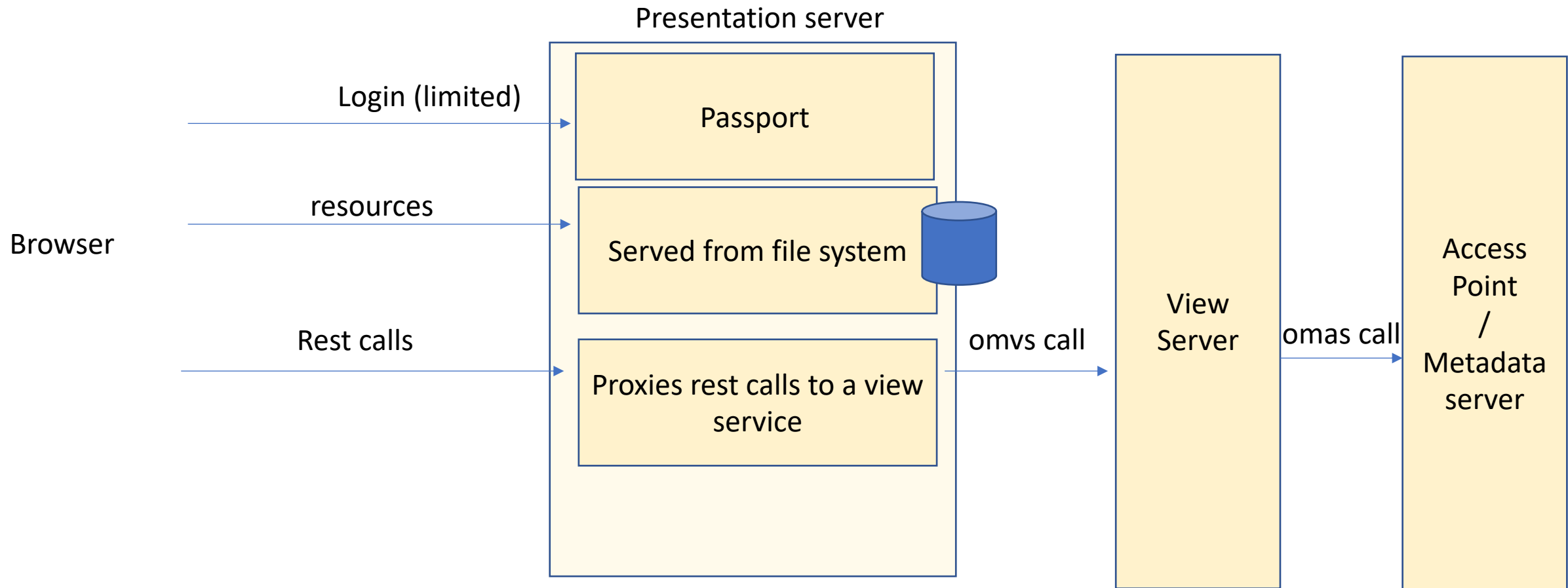
```
npm install
```

```
npm start
```

The UI part

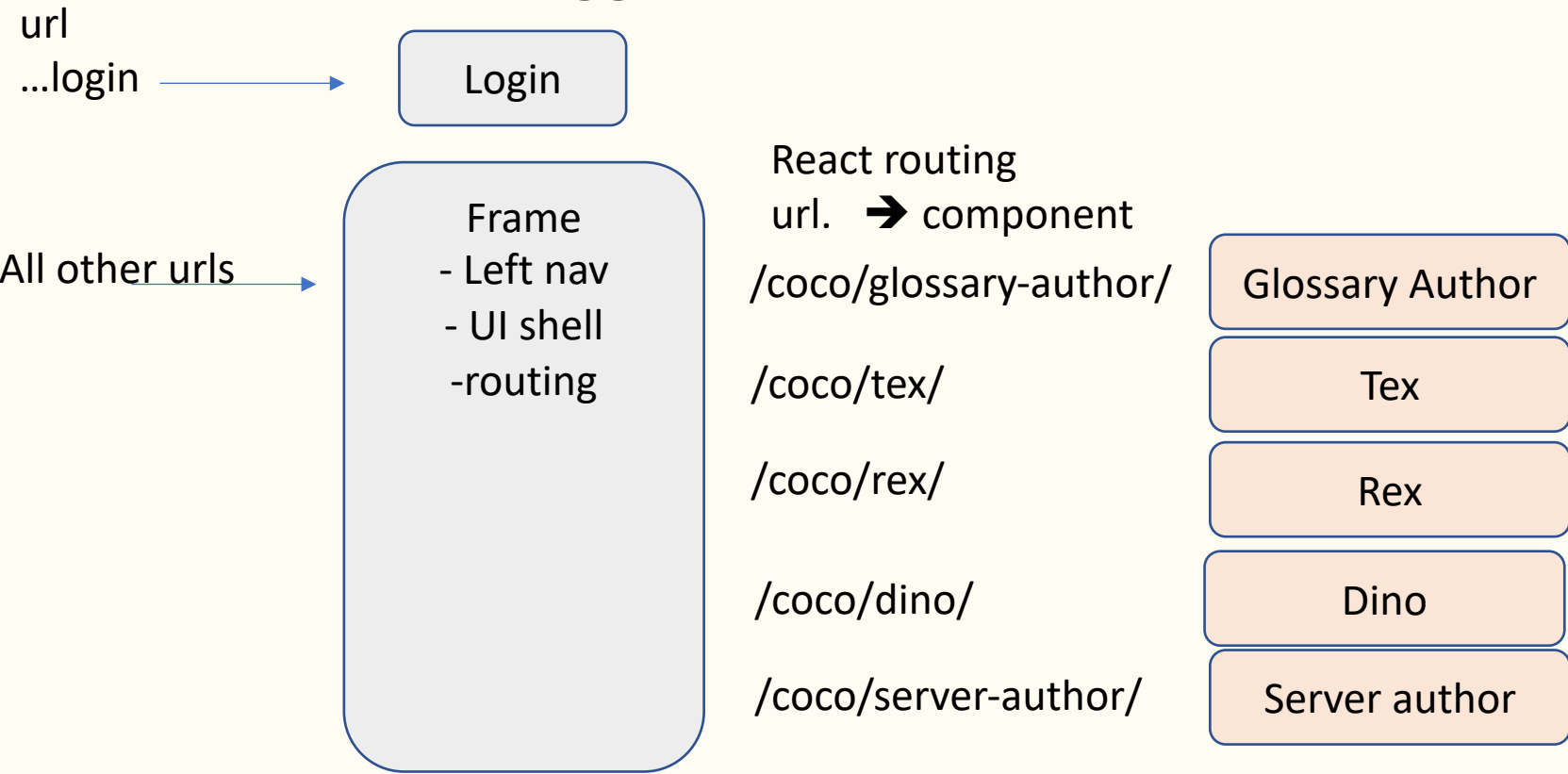


React UI architecture – presentation server



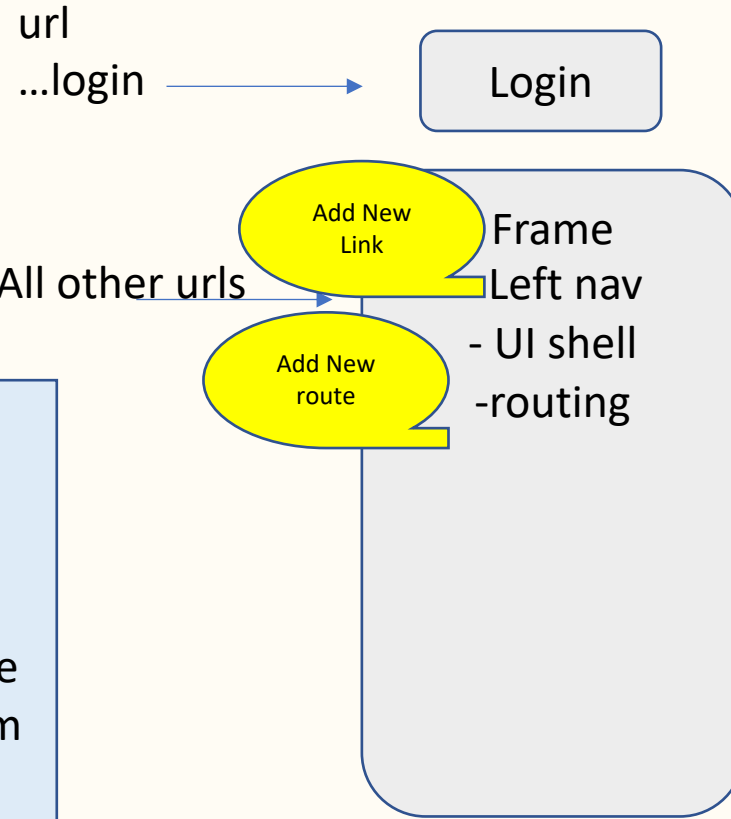
React UI architecture – React part

Identification Context contains logged in user



Adding a new component

Identification Context contains user



React routing
url. → component

/coco/glossary-author/

/coco/tex/

/coco/rex/

/coco/dino/

/coco/server-author/

/coco/new-one/

Future
In time we would like the logged in user to have an associated profile, that would determine the user interfaces home screen, preferences and capabilities. So there is a relevant experience for the user

A new component

- Particular persona
- Pointing to a view service
- Can pick up the user from the context.

- Glossary Author
- Tex
- Rex
- Dino
- Server author
- New One

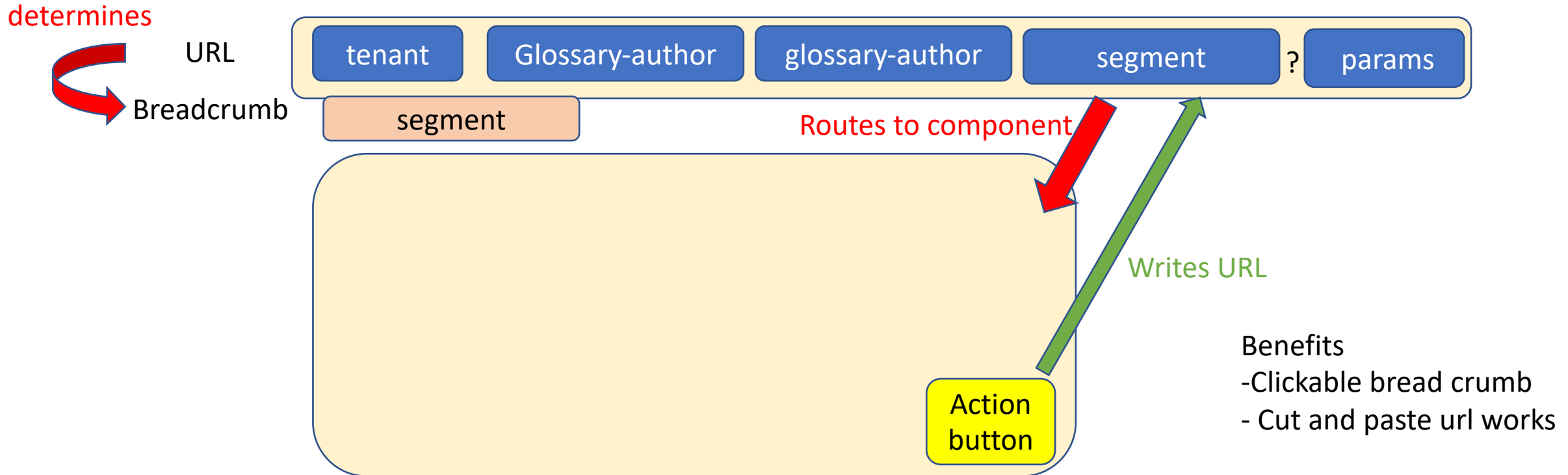
Tex Rex Dino nested contexts

```
<InteractionContextProvider>  
  <RepositoryServerContextProvider>  
    <TypesContextProvider>  
      <InstancesContextProvider>  
        <GraphControls />  
        <DetailsPanel />  
        <DiagramManager />
```

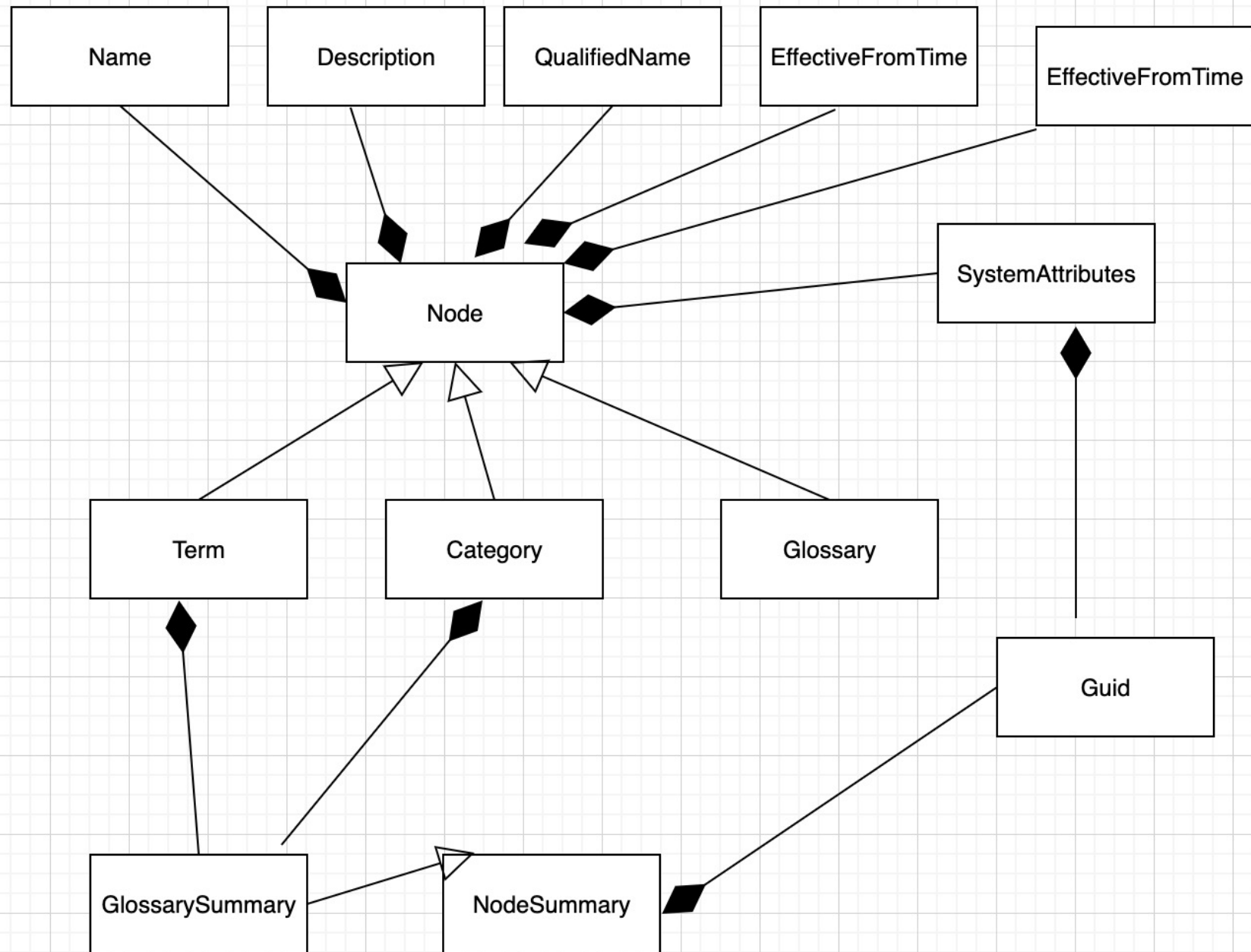
...

Nested contexts works well when there is one page with complex interactions between the components
Wraps D3 graph

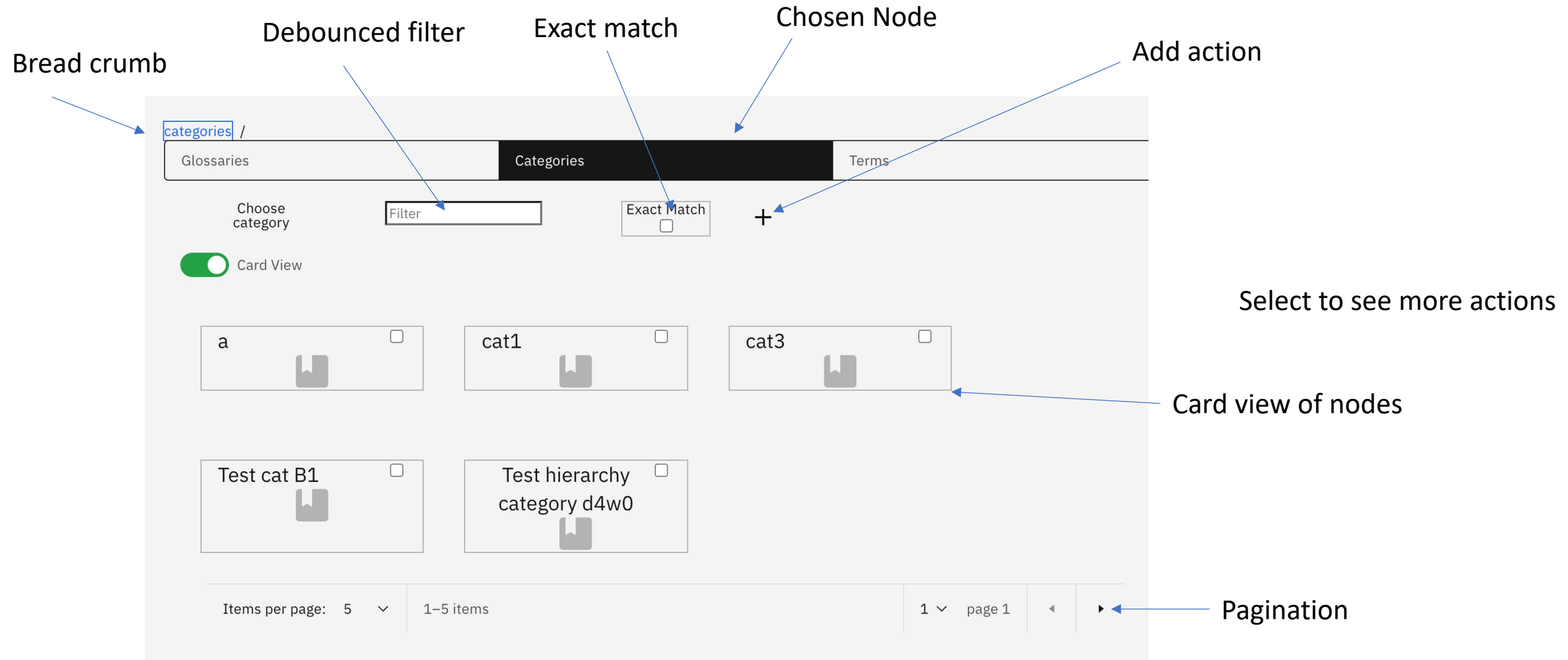
Glossary author url driven



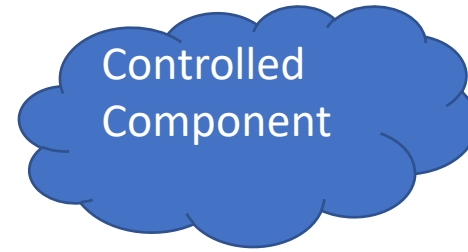
Node



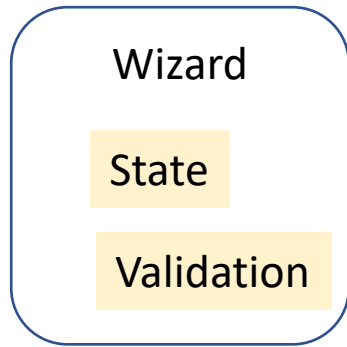
Glossary author search screen anatomy



Create Wizard



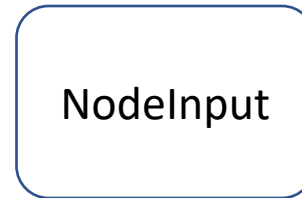
Parent component



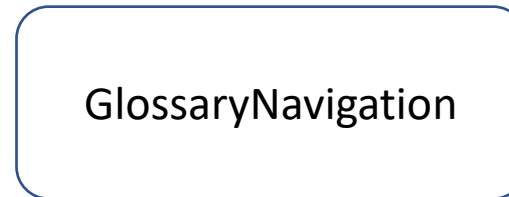
props

User input
In callbacks

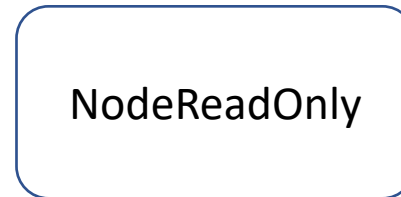
Child components



Form for user to input values



Choose Glossary (for term and category)



Confirm and create

Intention is to move update and delete
To this model

Selected node actions

- Quick terms – quickly author Term names for innovation session
- Update – update the selected Node
- Delete – delete the deleted node
- Glove – visualize the selected node
- See the children of the selected node

Glossary author Glove

- video

Server Author

- Context driven wizard to author servers.
- Interesting to see how this positions with the operator. Likely this will be used only in development to create configurations.
- Needs to move to use the view service
- Needs to pick up platform values from metadata

Where next?

- Core
 - Bring in line with the latest core Egeria security artifacts, which will be a pattern on how to customize security for an organization
 - May require server author view to be enabled.
- Glossary author
 - Finish the glossary author create and update wizards
 - Create and update on relationships.
 - Standardise icons, using the new repo.
- Server author
 - How to position with operator
 - View service
 - Picking up platform values from metadata server e.g. security connector class name
- Community profile and the governance program
 - Glossary author to pick up custom confidentiality etc classifications as defined by the governance program
 - Enable the community profile to get a more personalized UI.
 - Reference data & Valid values
- Consider UI capabilities as required to grow the community: asset search, visualization, semantic assignment, collaboration.
- One experience across Polymer and React?