

FRET SQA

QA browser elements

# FRET DIALOGS

dashboard: **db**

circle packing: **cirPack**



Project: **proj**

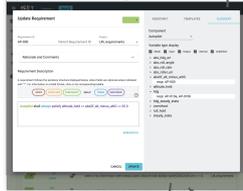


delete project: **delProj**

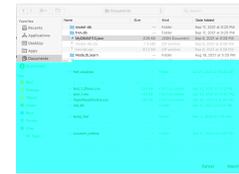


new project: **newProj**

Create req: **crt**

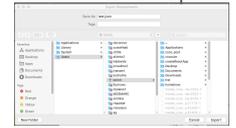


import: **imp**



NODE FS DIALOG

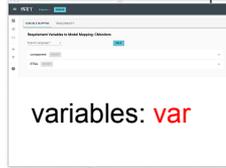
export: **exp**



NODE FS DIALOG



table: **tbl**

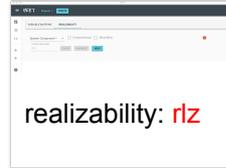


variables: **var**

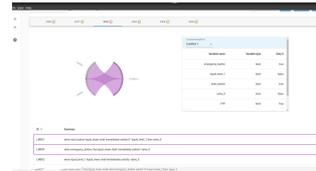


help: **var**

modify var: **disVar**



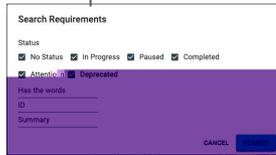
realizability: **rlz**



realizability: **rlzTbl**



requirement: **disReq**



search table: **srchTbl**

assistant: **ast**



templates: **tpl**



glossary: **gls**

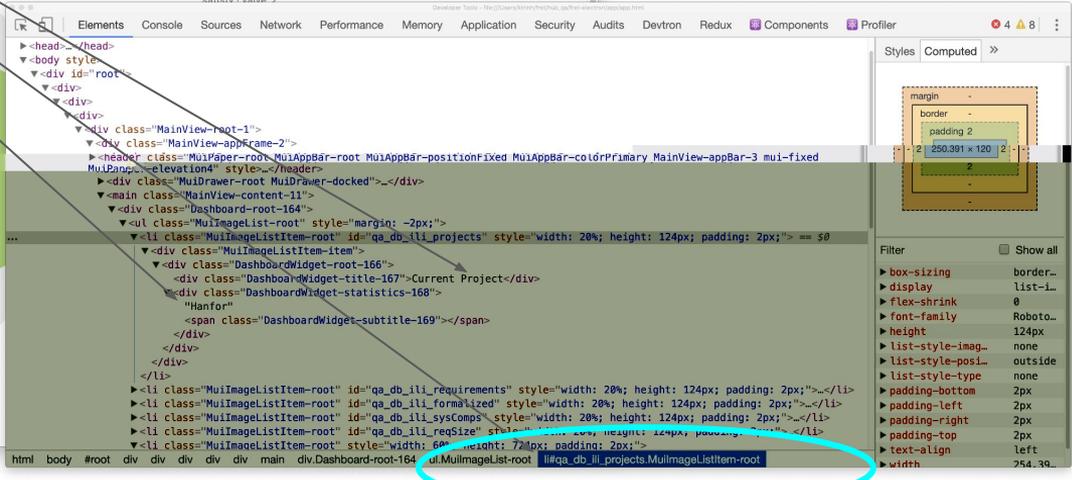
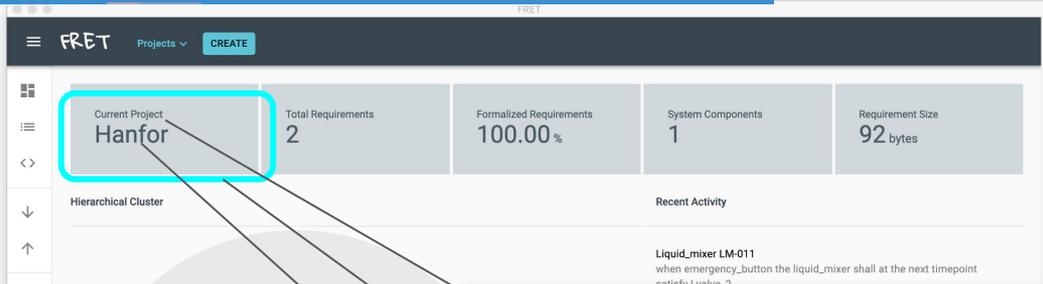


LTLSIM: **ltiSim**



QA element ID: "qa\_dialogAcronym\_uiType\_description<\_listItemName>"

```
<ImageList rowHeight={120} className={classes.ImageList} cols={5} gap={4}>  
  <ImageListItem id="qa_db_ili_projects" cols={1}>  
    <Widget statistics={projectOverviewValue} title={projectOverviewTitle}/>  
  </ImageListItem>  
  <ImageListItem id="qa_db_ili_requirements" cols={1}>  
    <Widget statistics={numOfRequirements.toString()} title='Total Requirements'/>  
  </ImageListItem>  
</ImageList>
```



# Dashboard: db

The dashboard displays a summary of project and requirement statistics, a hierarchical cluster visualization, and a list of recent activity items. The summary statistics are as follows:

Category	Value
Total Projects	11
Total Requirements	156
Formalized Requirements	97.44 %
System Components	28
Requirement Size	14052 bytes

The hierarchical cluster visualization shows a tree structure of nodes, with a pink overlay at the bottom. The recent activity list includes:

- Liquid\_mixer LM-011: when emergency\_button the liquid\_mixer shall at the next timepoint satisfy valve\_2
- Liquid\_mixer LM-009: when emergency\_button, the liquid\_mixer shall at the next timepoint satisfy valve\_0
- Liquid\_mixer LM-assumption1: the liquid\_mixer shall immediately satisfy liquid\_level\_1
- test-hackathon PAG1-04: Satellite\_one shall almost satisfy mass\_three << 5.0
- test-hackathon PAG1-02: CPU shall never satisfy processor\_fault
- Liquid\_mixer LM-008: when timer\_60sec\_expire, the liquid\_mixer shall until (timer\_120sec\_expire | emergency\_button) satisfy valve\_2
- Liquid\_mixer LM-004: when liquid\_level\_2 the liquid\_mixer shall at the next timepoint satisfy valve\_1
- Liquid\_mixer LM-003: if liquid\_level\_1 the liquid\_mixer shall until emergency\_button satisfy if liquid\_level\_2 then valve\_1
- Liquid\_mixer LM-006: the liquid\_mixer shall...

UI elements and their IDs are as follows:

- id="qa\_db\_ib\_openDrawer" (hamburger menu)
- id="qa\_db\_btn\_projects" (Projects button)
- id="qa\_db\_btn\_create" (CREATE button)
- id="qa\_db\_li\_dashboard" (Dashboard icon)
- id="qa\_db\_li\_table" (Table icon)
- id="qa\_db\_li\_analysis" (Analysis icon)
- id="qa\_db\_li\_import" (Import icon)
- id="qa\_db\_li\_export" (Export icon)
- id="qa\_db\_li\_help" (Help icon)
- id="qa\_db\_ili\_reqSize" (Requirement Size)
- id="qa\_db\_ili\_sysComps" (System Components)
- id="qa\_db\_ili\_formalized" (Formalized Requirements)
- id="qa\_db\_ili\_requirements" (Total Requirements)
- id="qa\_db\_ili\_projects" (Total Projects)

Project: **proj**

The screenshot shows the FRET application interface. On the left, there is a sidebar with a menu icon and a search icon. The main area displays a dashboard with several metrics: Total Projects (11), Requirements (16), Formalized Requirements (97.44%), System Components (28), and Requirement Size (14052 bytes). Below the dashboard, there is a 'Recent Activity' section showing a list of projects: GPCA, GPCA\_with\_modes, Hanfor, LM\_requirements, Liquid\_mixer, and SemanticsPaper. The 'Liquid\_mixer' project is highlighted. Three red boxes with arrows point to specific elements: 'id="qa\_proj\_del\_Liquid\_mixer"' points to the 'Liquid\_mixer' entry in the list; 'id="qa\_proj\_select\_Liquid\_mixer"' points to the 'Liquid\_mixer' entry in the list; and 'id="qa\_db\_btn\_newProject"' points to a 'New Project' button in the bottom left corner.

delete project: **delProj**

Are you sure you want to delete LM\_requirements?

Once a project is deleted it cannot be undone. All requirements that belong to this project will also be deleted.

CANCEL OK

id="qa\_delProj\_btn\_cancel"

id="qa\_delProj\_btn\_ok"

new project: **newProj**

New Project

Project Name

test

CANCEL

OK

# Create req: crt

The image shows a 'Create Requirement' form with the following labeled components:

- id="qa crt\_tf\_parentReqid"**: Points to the top header area of the form.
- id="qa crt\_tf\_reqid"**: Points to the 'Requirement ID' input field.
- id="qa crt\_tf\_parentReqid"**: Points to the 'Parent Requirement ID' input field.
- id="qa crt\_tf\_reqid"**: Points to the 'Project' dropdown menu, which is currently set to 'Demo-FSM'.
- id="qa crt\_select\_status"**: Points to a status dropdown menu in the top right corner.
- id="qa crt\_select\_project"**: Points to the 'Project' dropdown menu.
- id="qa crt\_as\_rationaleComments"**: Points to the 'Rationale and Comments' section header.
- id="qa crt\_tf\_rationale"**: Points to the 'Rationale' text input field.
- id="qa crt\_tf\_comments"**: Points to the 'Comments' text input field.
- id="qa crt\_ib\_btn\_<label>"**: Points to a row of semantic bubbles: SCOPE, CONDITIONS, COMPONENT\*, SHALL\*, TIMING, and RESPONSES\*. A question mark bubble is also present.
- id="qa crt\_ib\_question"**: Points to the question mark bubble.
- id="qa crt\_edt\_slateEditor"**: Points to the 'Requirement Description' text area.
- id="qa crt\_btn\_semantics"**: Points to the 'SEMANTICS' label below the bubbles.
- id="qa crt\_btn\_cancel"**: Points to the 'CANCEL' button at the bottom right.
- id="qa crt\_btn\_create"**: Points to the 'CREATE' button at the bottom right.