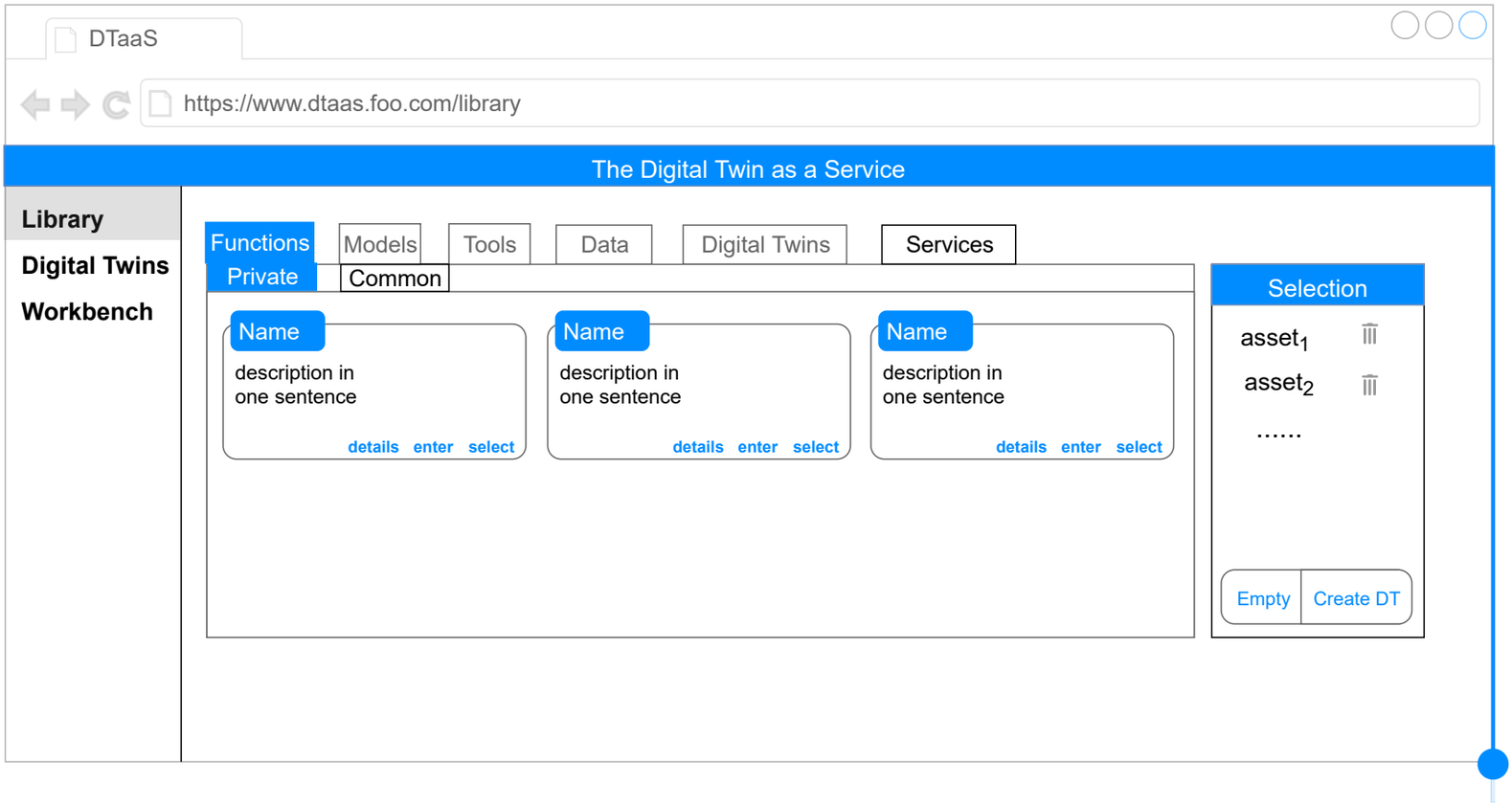
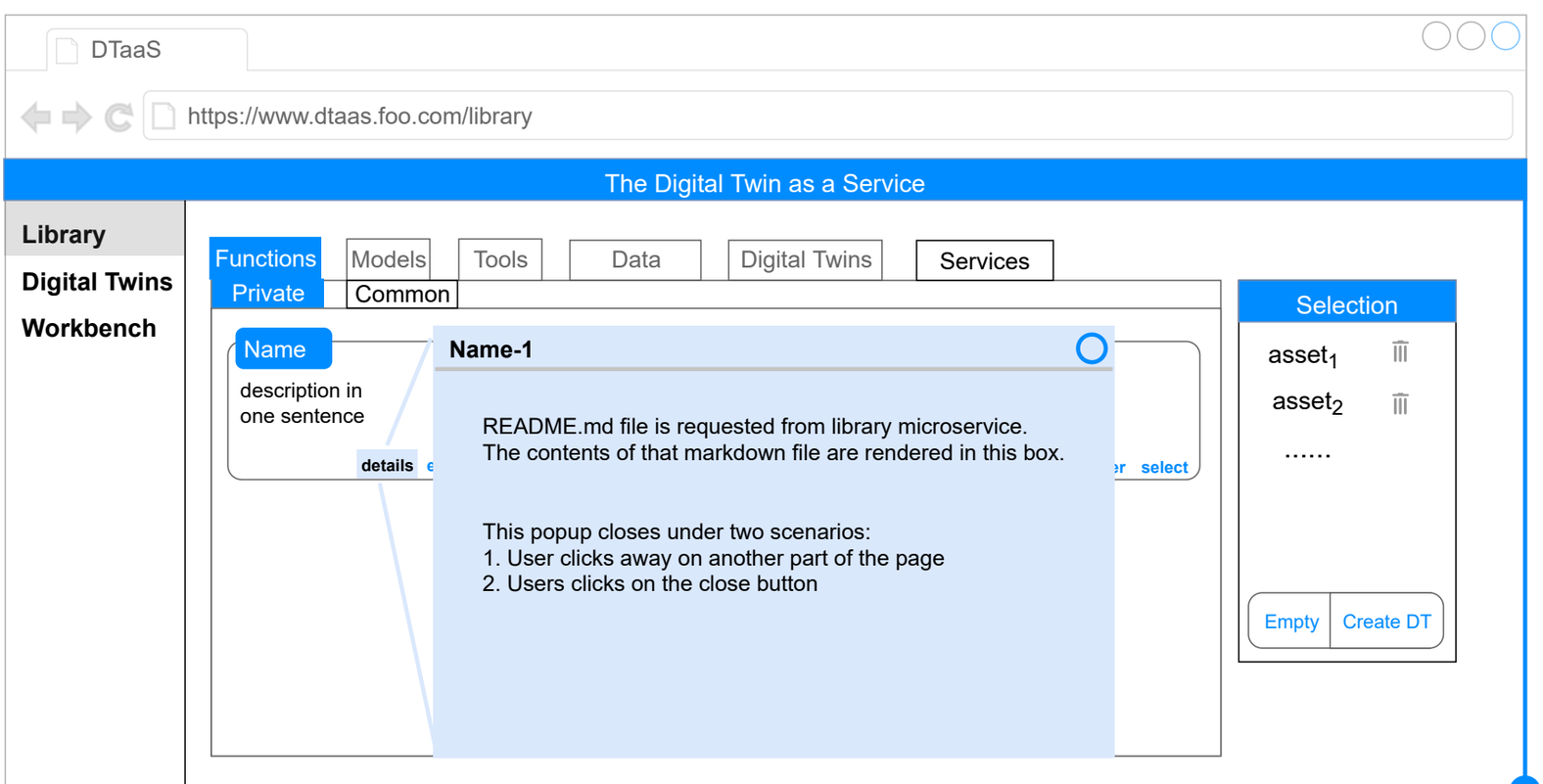
Library Page

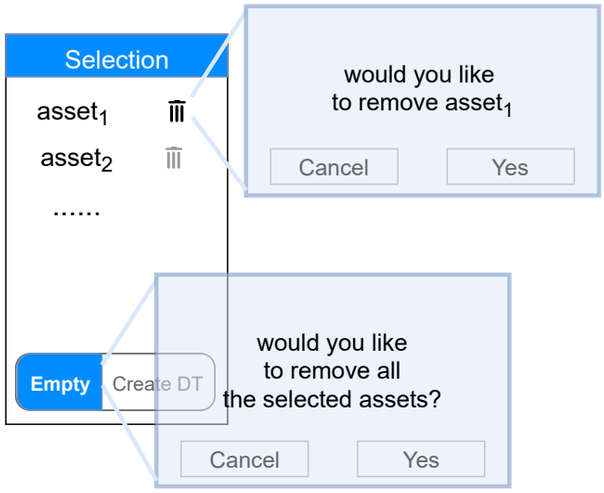


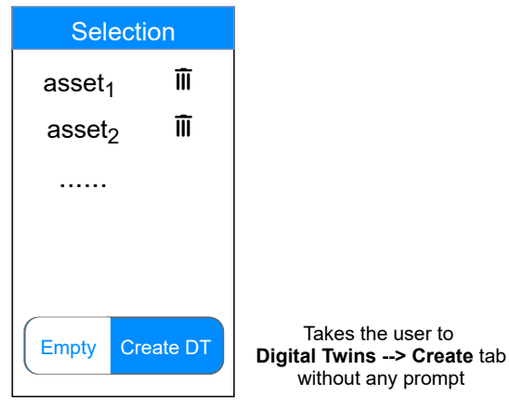
Notes:

1. The layout for Functions,Models, Tools, Data and Digital Twins pages is the same
2. The layout private and common pages are the same
3. There is a vertical slider on the page.
4. Name on top of each asset is fetched from the library microservice. Each asset has details, enter and select options. The behavior of these options are:

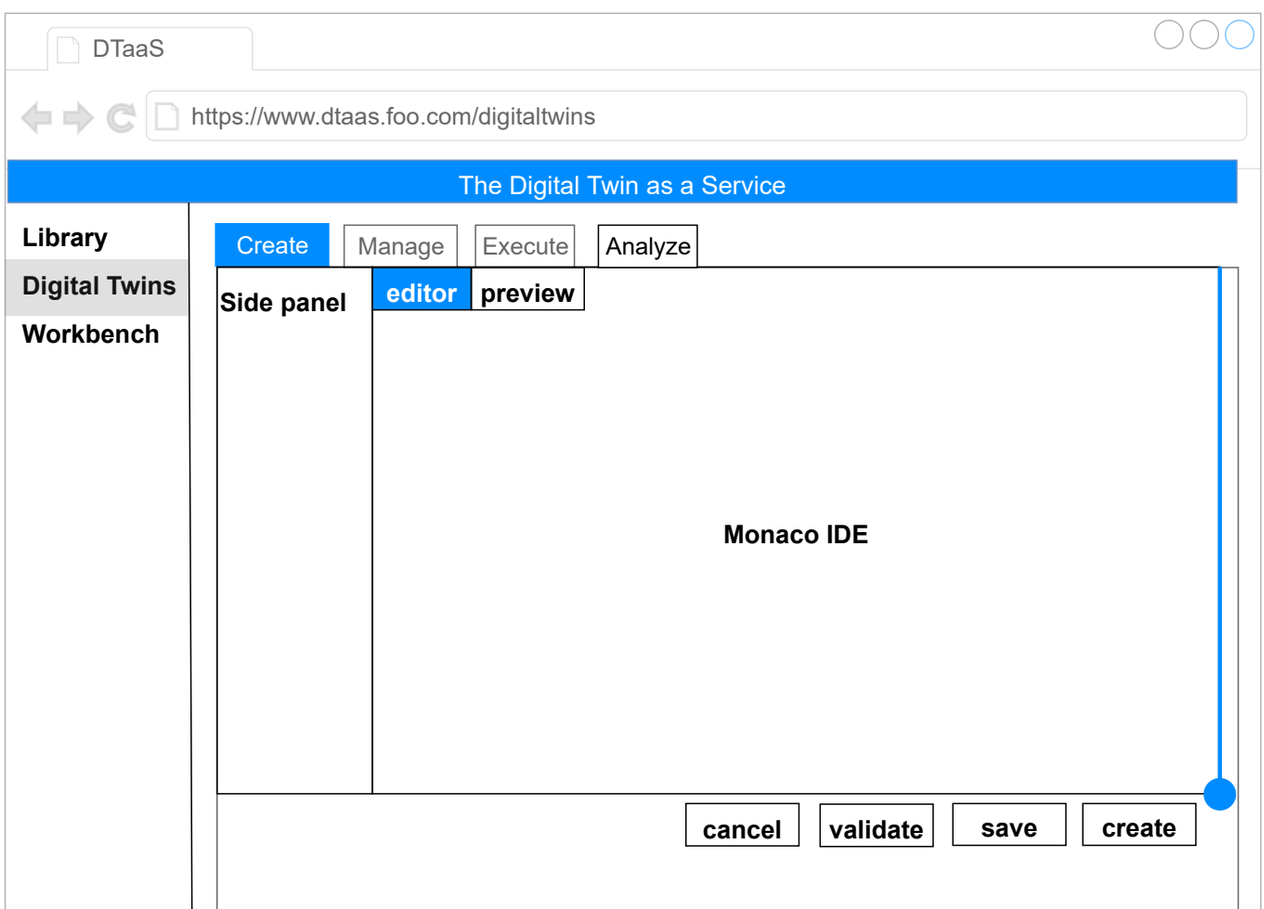
    1. details: displays the README.md file for that asset. The markdown file is rendered in preview mode but not in raw mode.
    2. enter: enters the directory
    3. select: selects the asset and puts it into the basket



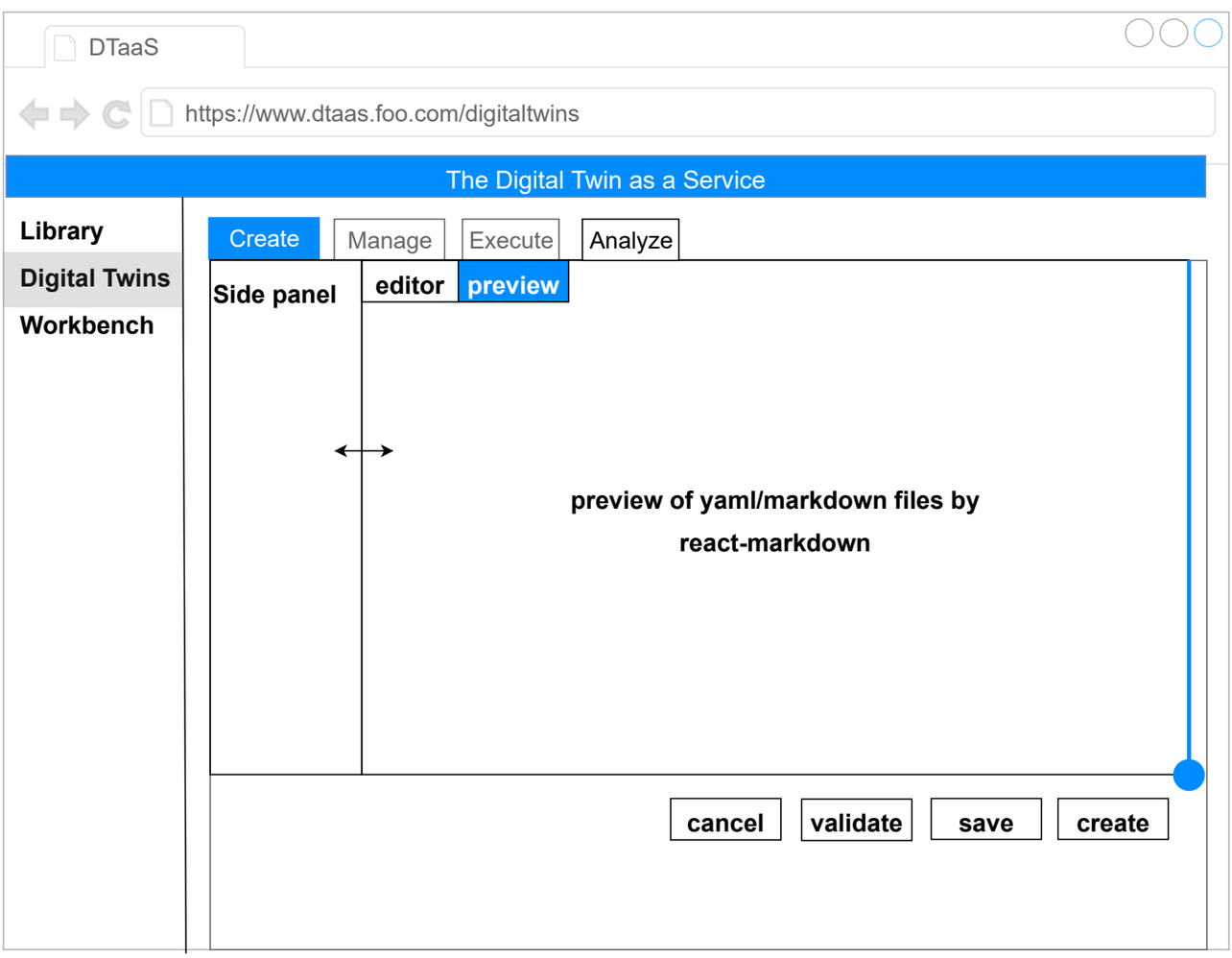




Digital Twins Page



Notes:
1. When the user directly enters the digitaltwins route, none of the create, manage, execute or analyze tabs are selected. User have to select one of the tabs.
1. If user clicks on create tab, the create layout comes and any items in the selection basket come into create context. If the basket is empty, user is given a prompt to go back to library and select some items.
1. Behavior of buttons in **create** --> **Editor** view:
   1. **Cancel** --> Cancels the creation of DT. The selected items still remain in basket. If user goes to Library page, the selections side panel will become visible again
   1. **Validate** --> validates the contents of editor window. There shall be yaml and markdown validators. The client-side validation is not necessarily exhaustive. The **DT Configuration Validator** microservice shall have the final say.
   1. **Create** --> validates yaml/md. If successful, create mutation query with contents shall be sent to lib microservice. There will be a wait icon while the validate / create buttons are waiting for work to be complete.
A successful creation status takes user to **Manage** tab.



Notes:
1. The edit button is only visible if an item is editable.
2. If an item selected from side panel is not editable, only preview is shown without any edit button.
3. The contents of editor will be retained as user navigates between editor and preview modes.
4. The side panel may contain filenames that are long. To make these names visible, the side panel width needs to be adjustable.

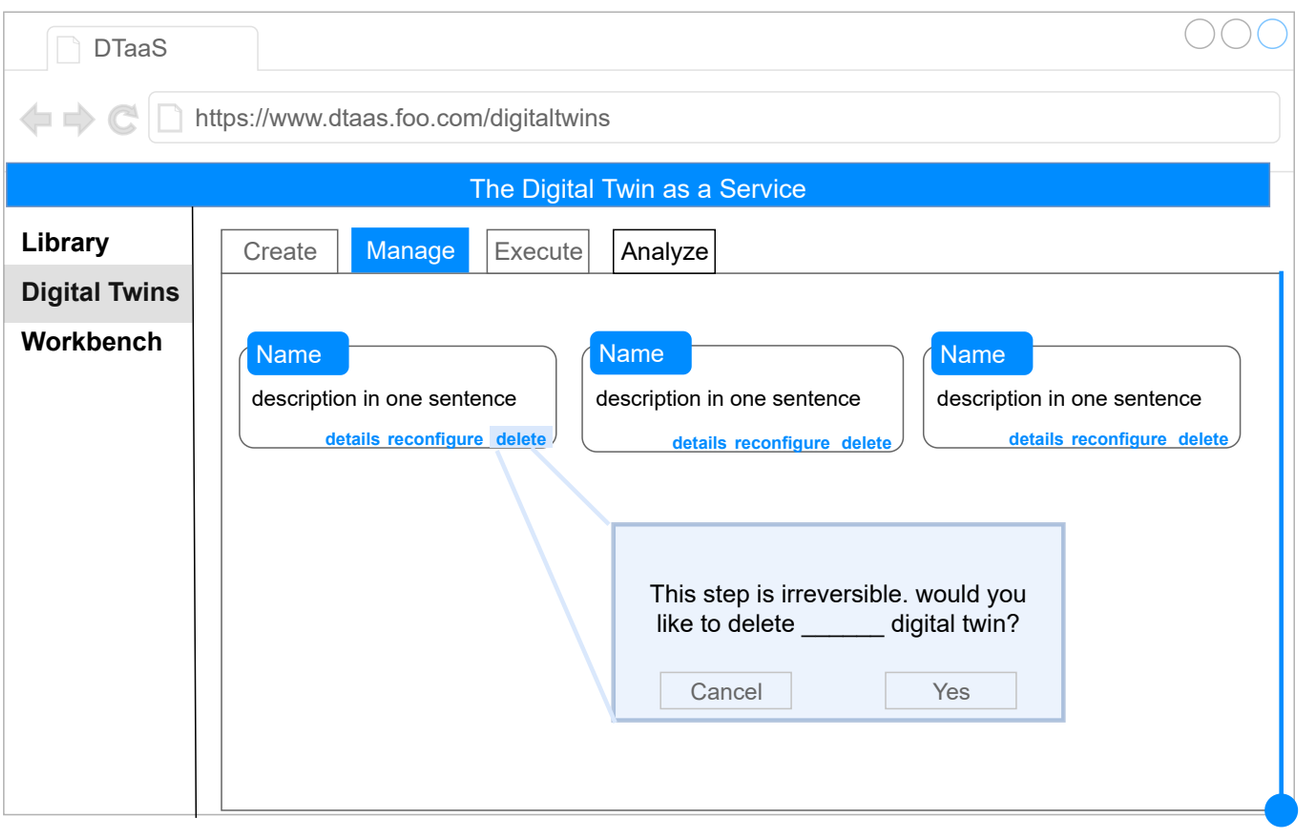
Side panel

Description
- Digital Twin
- $Asset_1$
- $Asset_2$
- .....

Config
- Digital Twin
- $Asset_1$
- $Asset_2$
- .....
- $Service_1$
- $Service_2$
- .....

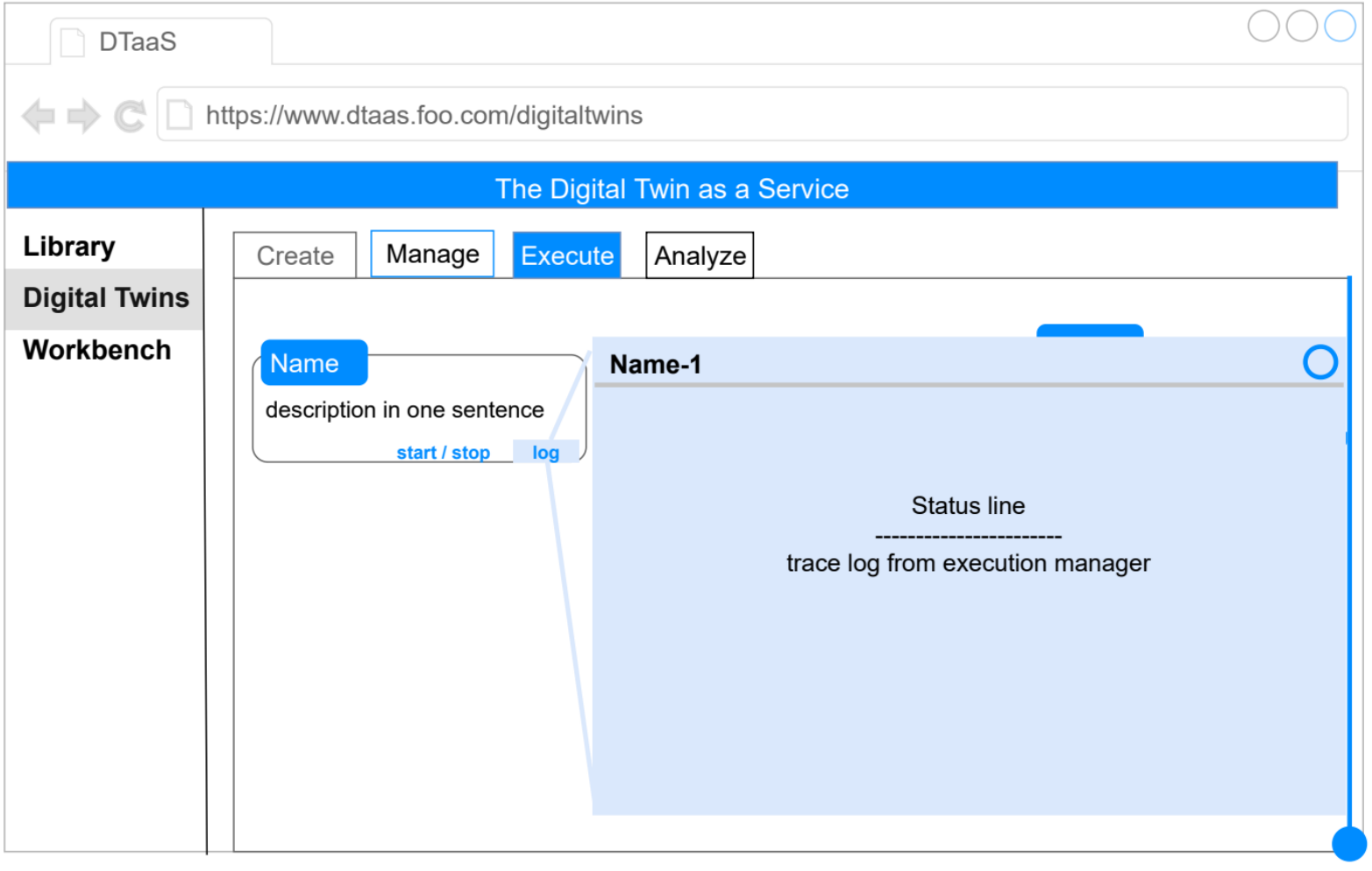
Notes:

1. When user clicks on **Digital Twin** in **Description**, editor shows existing README.md of digital twin. User gets a chance to update it, preview it and save it.
2. When user clicks on **$Asset_i$** in **Description**, only a preview containing README.md of the asset is shown.. Editor tab is not shown.
3. When user clicks on **Digital Twin** in **Config**, the editor area becomes active and user gets a chance to enter the DT config. The validation is not done on the digital twin config.
4. Config for an asset is optional. If it exists, the asset directory must contain the following:
    1. asset-file(s)
    2. README.md
    3. config.yml
4. When user clicks on **$Asset_i$** in **Config**, the editor area becomes active and a ready to use template is shown. User fills the required fields. Since there is a yaml highlighter is already part of monaco-editor, preview is not active for this task.
5. When user clicks on **$Service_i$** in **Config**, the editor area becomes active and a ready to use template is shown. User fills the required fields. Since there is a yaml highlighter is already part of monaco-editor, preview is not active for this task. Template variables of service configuration (ex: RabbitMQ credentials are filled in by the platform after successful creation step.
6. All the connections to external services / systems shall be part of digital twin configuration.



Notes:

1. **details** button shows the digital twin description entered by user in **Create** step. This interaction is similar to the description shown in Library menu.
2. reconfigure takes user back to the same interface as **create** but with the buttons "*cancel-validate-create*" changed to "*cancel-validate-save*"


DTaaS
https://www.dtaas.foo.com/digitaltwins
The Digital Twin as a Service
Library
Digital Twins
Workbench
Create
Manage
Execute
Analyze
Name
description in one sentence
start / stop
log
Name-1
Status line
---
trace log from execution manager