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# **FuretUI Documentation**

***Release 0.0.1***

**Jean-Sébastien Suzanne**

**Jul 22, 2017**



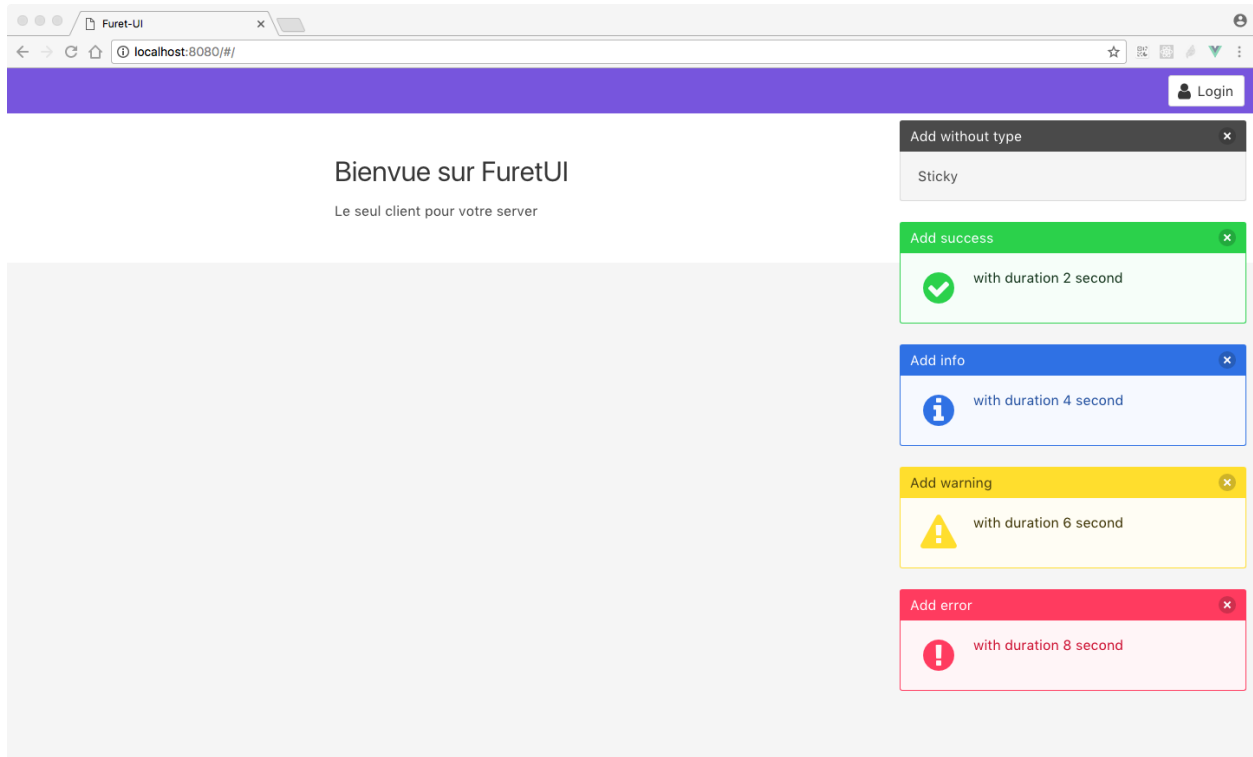
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## Contents

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<b>1</b>	<b>Front Matter</b>	<b>3</b>
1.1	Project Homepage . . . . .	3
1.2	Project Status . . . . .	3
1.3	Installation . . . . .	3
1.4	Unit Test . . . . .	4
1.5	Contributing (hackers needed!) . . . . .	4
1.6	Author . . . . .	4
1.7	Contributors . . . . .	4
1.8	Bugs . . . . .	4
<b>2</b>	<b>Some picture</b>	<b>5</b>
<b>3</b>	<b>API</b>	<b>11</b>
3.1	APP . . . . .	11
3.2	Right and Left Menu . . . . .	11
3.3	Space . . . . .	12
3.4	Picture . . . . .	13
3.5	Views . . . . .	13
3.6	Field . . . . .	16
3.7	Plugin . . . . .	17
<b>4</b>	<b>Store and Flow</b>	<b>19</b>
4.1	client . . . . .	19
4.2	leftmenu, rightmenu . . . . .	20
4.3	global . . . . .	21
4.4	data . . . . .	23
4.5	View definition for store . . . . .	27
<b>5</b>	<b>Client / Server Api</b>	<b>31</b>
5.1	/furetui/init/required/data . . . . .	31
5.2	/furetui/init/optionnal/data . . . . .	31
5.3	/furetui/homepage . . . . .	32
5.4	/furetui/button/<buttonId> . . . . .	32
5.5	/furetui/custom/view/<viewName> . . . . .	32
5.6	/furetui/view/<viewId> . . . . .	32
5.7	/furetui/space/<spaceId> . . . . .	32
5.8	/furetui/action/<actionId> . . . . .	32

5.9	/furetui/field/x2x/search . . . . .	33
5.10	/furetui/list/x2m/get . . . . .	33
5.11	/furetui/field/x2m/get/views . . . . .	33
5.12	/furetui/data/create . . . . .	34
5.13	/furetui/data/read . . . . .	34
5.14	/furetui/data/read/<dataId> . . . . .	34
5.15	/furetui/data/update . . . . .	35
5.16	/furetui/data/delete . . . . .	35
5.17	/furetui/data/call . . . . .	35
5.18	Default route for login and logout . . . . .	36
<b>6</b>	<b>Mozilla Public License Version 2.0</b>	<b>39</b>
6.1	1. Definitions . . . . .	39
6.2	2. License Grants and Conditions . . . . .	41
6.3	3. Responsibilities . . . . .	42
6.4	4. Inability to Comply Due to Statute or Regulation . . . . .	43
6.5	5. Termination . . . . .	43
6.6	6. Disclaimer of Warranty . . . . .	43
6.7	7. Limitation of Liability . . . . .	44
6.8	8. Litigation . . . . .	44
6.9	9. Miscellaneous . . . . .	44
6.10	10. Versions of the License . . . . .	44
6.11	Exhibit A - Source Code Form License Notice . . . . .	45
6.12	Exhibit B - “Incompatible With Secondary Licenses” Notice . . . . .	45
<b>7</b>	<b>Template</b>	<b>47</b>



## Contents

- *Front Matter*
  - *Project Homepage*
  - *Project Status*
  - *Installation*
  - *Unit Test*
  - *Contributing (hackers needed!)*
  - *Author*
  - *Contributors*
  - *Bugs*



Information about the FuretUI project.

## Project Homepage

FuretUI is hosted on [github](#) - the main project page is at [http://github.com/AnyBlok/furet\\_ui](http://github.com/AnyBlok/furet_ui). Source code is tracked here using [GIT](#).

The most recent published version of this documentation should be at <http://furet-ui.readthedocs.io/en/latest/index.html>.

## Project Status

FuretUI is currently in development status and is expected to be fairly stable. Users should take care to report bugs and missing features on an as-needed basis. It should be expected that the development version may be required for proper implementation of recently repaired issues in between releases; the latest master is always available at [https://github.com/AnyBlok/furet\\_ui/archive/master.zip](https://github.com/AnyBlok/furet_ui/archive/master.zip).

## Installation

Install latest versions of FuretUI from github (need **npm**):

```
git clone https://github.com/AnyBlok/furet_ui.git
cd furet_ui
npm install
npm run build-prod
```

..warning:

```
``build-prod`` return a minimify build
```

## Unit Test

Run the test with npm:

```
npm run test
```

AnyBlok is tested using [Travis](#)

Run the mock server from the project:

```
npm run build
virtualenv develop
source develop/bin/activate
pip install -r requirement.txt
python server.py
```

## Contributing (hackers needed!)

FuretUI is at a very early stage, feel free to fork, talk with core dev, and spread the word!

## Author

Jean-Sébastien Suzanne

## Contributors

[Anybox](#) team:

- Jean-Sébastien Suzanne
- Simon ANDRÉ

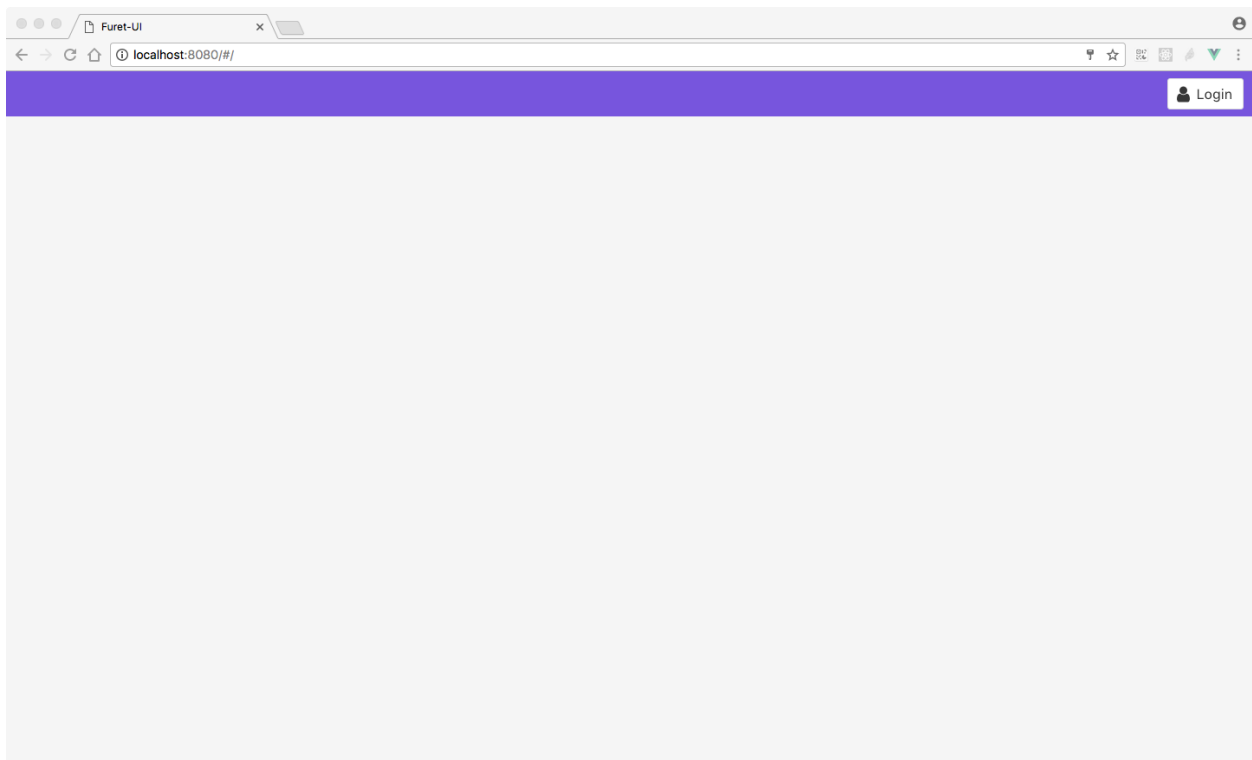
## Bugs

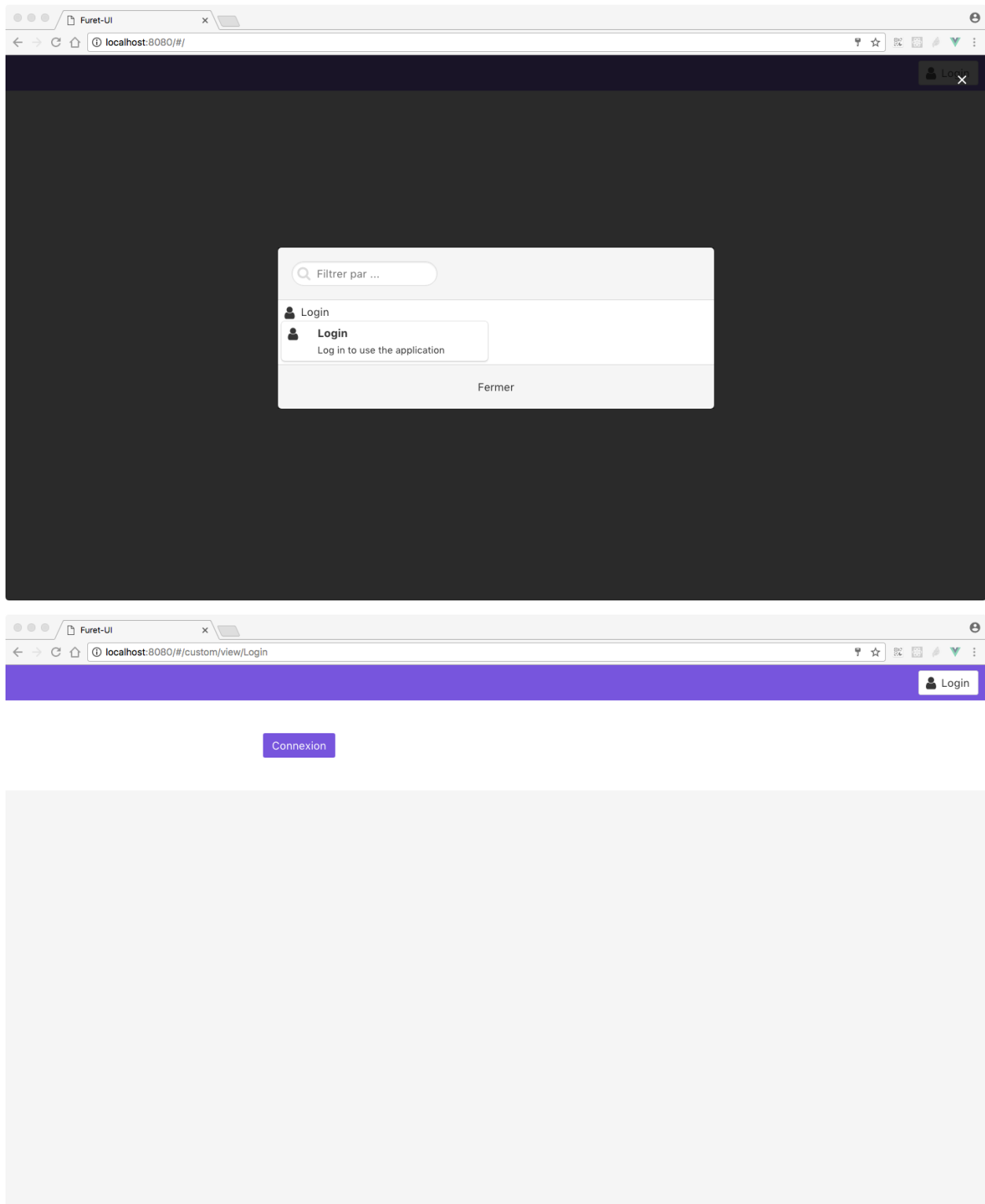
Bugs and feature enhancements to FuretUI should be reported on the [Issue tracker](#).

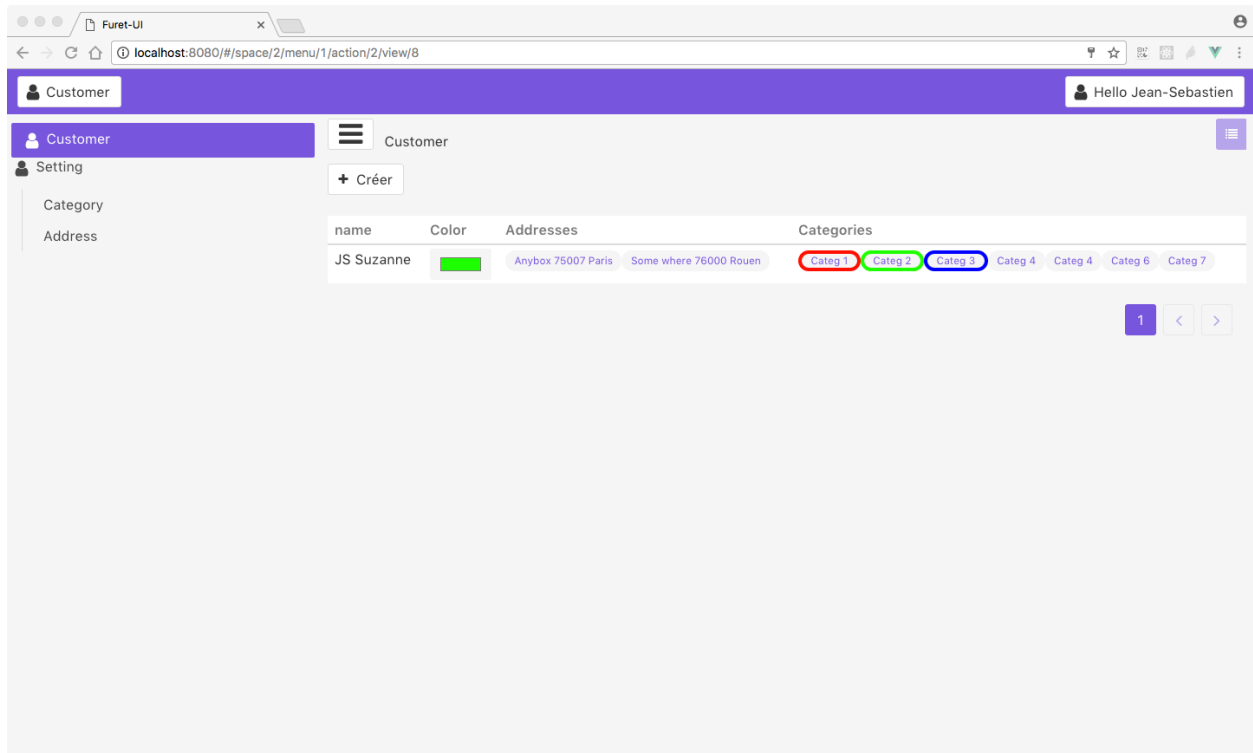
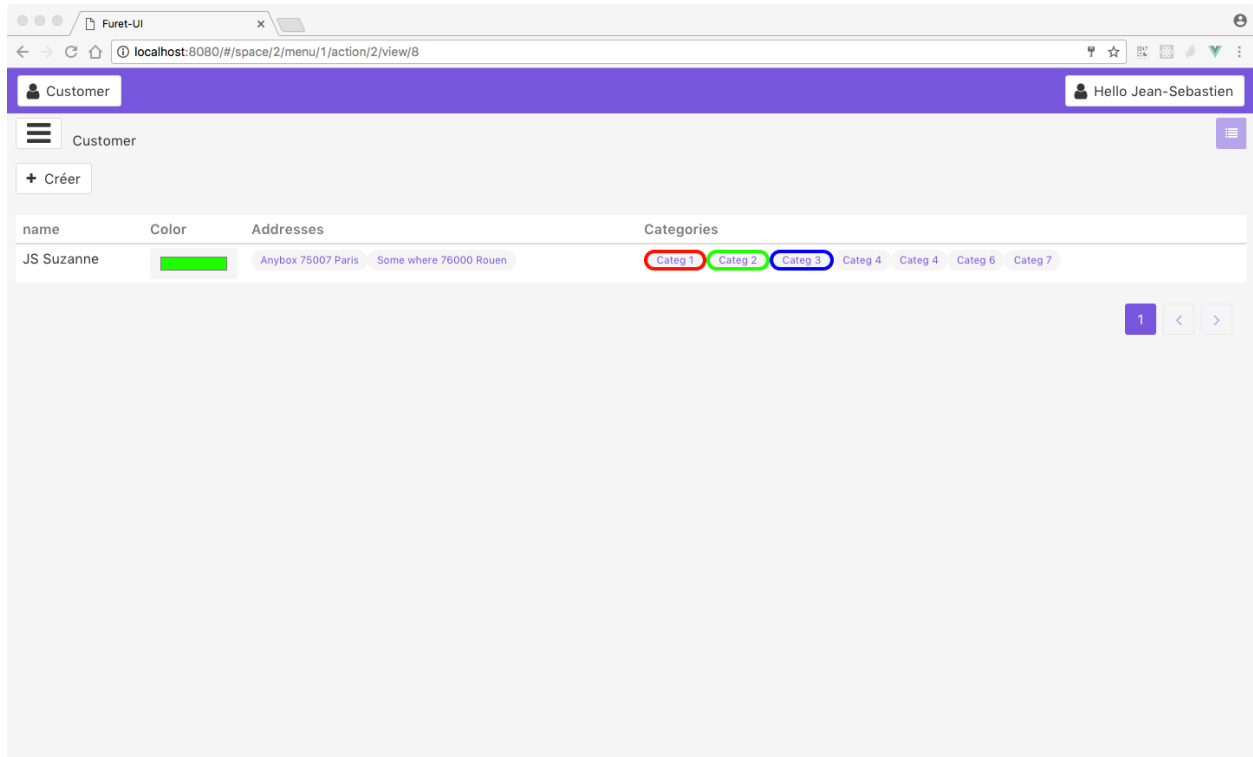


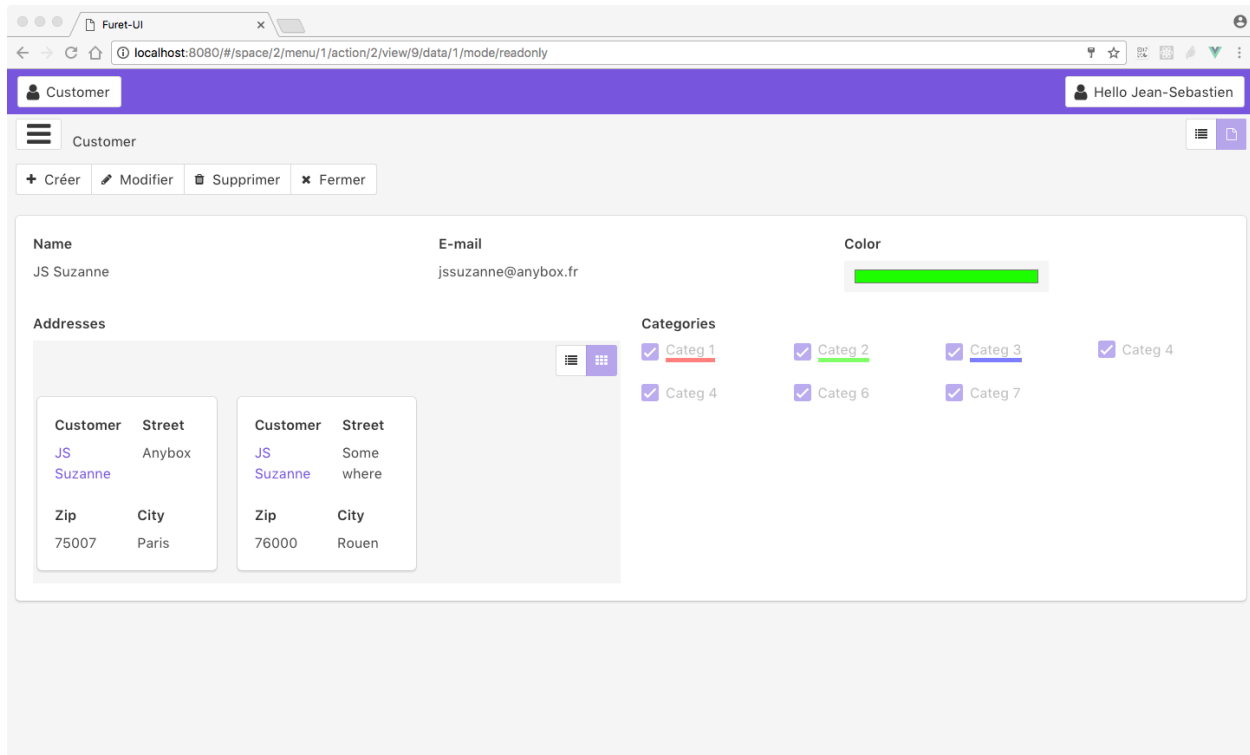
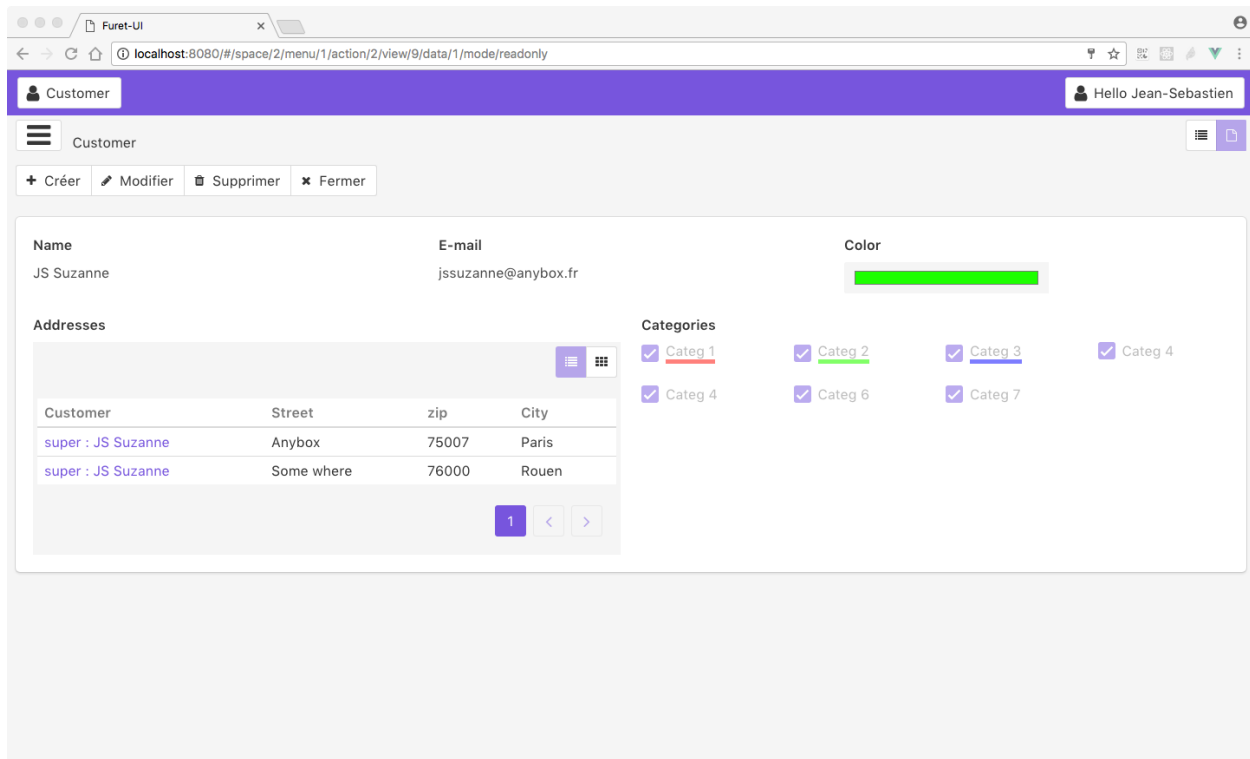
## CHAPTER 2

Some picture









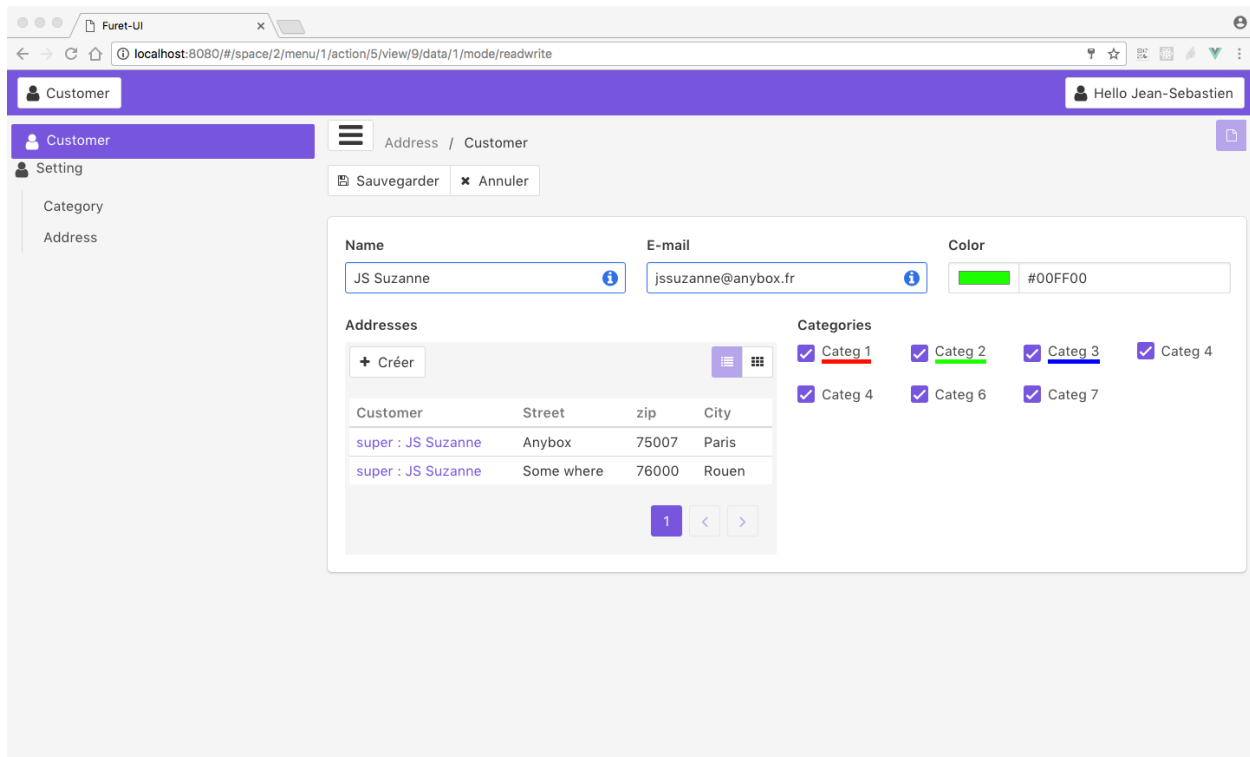
The screenshot shows a web browser window with the URL `localhost:8080/#/space/2/menu/1/action/2/view/9/data/1/mode/readonly`. The page title is "Customer". The user is logged in as "Hello Jean-Sebastien". The form contains the following fields and sections:

- Name:** JS Suzanne
- E-mail:** jssuzanne@anybox.fr
- Color:** A green color picker.
- Addresses:** A section with a "Fermer" button and a table of addresses.
- Categories:** A section with checkboxes for "Categ 1" through "Categ 7".

Customer	Street
JS Suzanne	Some where
Zip	City
76000	Rouen

The screenshot shows a web browser window with the URL `localhost:8080/#/space/2/menu/4/action/4/view/13/data/1/mode/readonly`. The page title is "Customer". The user is logged in as "Hello Jean-Sebastien". The form contains the following fields and sections:

- Customer:** JS Suzanne
- Street:** Anybox
- Zip:** 75007
- City:** Paris

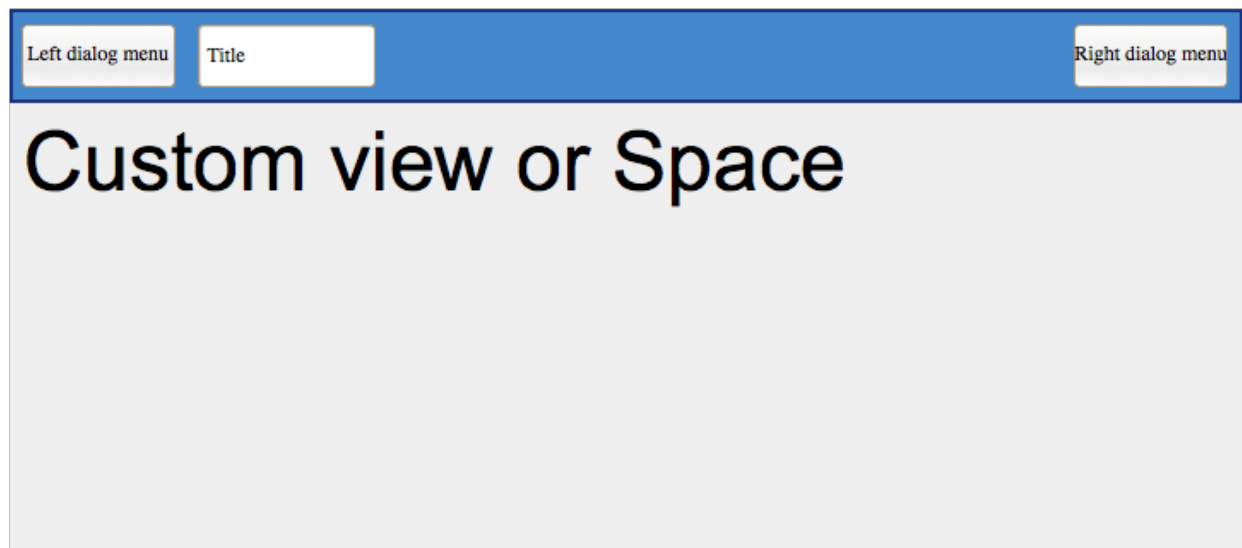


## Contents

- *API*
  - *APP*
  - *Right and Left Menu*
  - *Space*
  - *Picture*
  - *Views*
    - \* *Unknown*
    - \* *List*
    - \* *Form*
    - \* *Thumbnail*
  - *Field*
    - \* *Simple*
    - \* *Relation ship*
  - *Plugin*

## APP

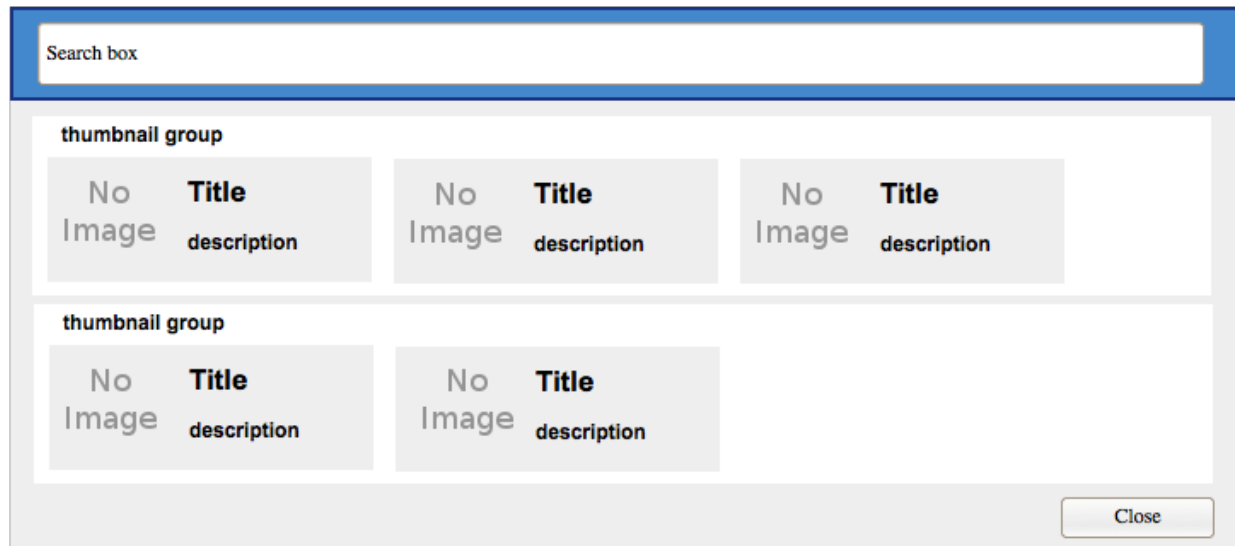
Render the application, need the providers for theme and redux storage



```
<furet-ui />
```

## Right and Left Menu

It is a Modal menu. It is a thumbnail render, the thumbnail can be filtered by a searchBox



```
<furet-ui-appbar-left-menu />  
<furet-ui-appbar-right-menu />
```

## Space

A space is an environnement for a specific behavior. Each space can defined menus, actions, views





```
<furet-ui-space
  v-bind:spaceId="..."
  v-bind:menuId="..."
  v-bind:actionId="..."
  v-bind:viewId="..."
/>
```

## Picture

Render a picture, the picture can be come from:

- font-icon: font-awesome class

```
<furet-ui-picture type="font-icon" value="fa-user" />
```

## Views

List the type of view available for the server.

The view type can be:

- standard: List, Form, Thumbnail

- custom: Login, Logout

All the view are present in the plugin system of FuretUI.

## Unknown

Replace the wanted view if no view are available

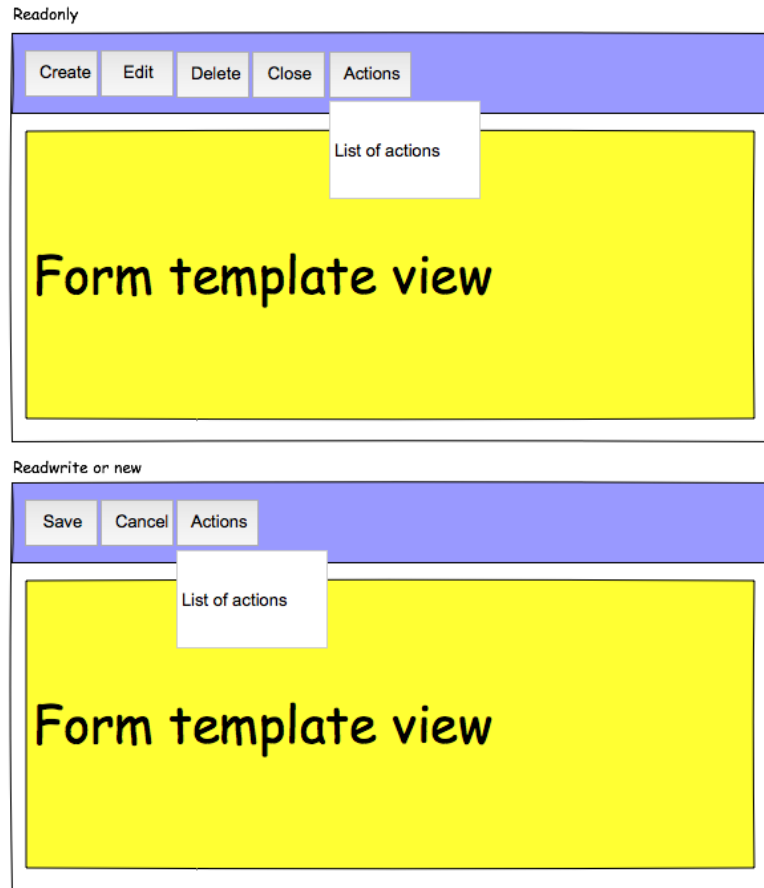
## List

Render a list of data

The image displays two examples of a list view in FuretUI. The top example shows a basic list with a 'Create' button, an 'Actions' dropdown menu, and a 'Search box'. The bottom example shows a more complex list with 'Create', 'Delete', 'Actions', and 'More' buttons, each with a dropdown menu, and a 'Search box'. Both lists contain eight yellow 'Line' items.

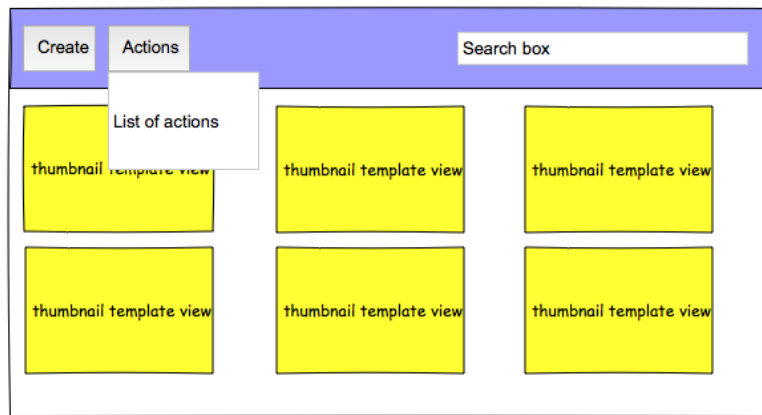
## Form

Render a react template, the template come from serveur and stock in the redux store



## Thumbnail

Render a react template, the template come from serveur and stock in the redux store



## Field

Each field must be defined by views type.

### Simple

The list are:

- Boolean
- Color
- Date
- DateTime
- Float
- Integer
- File
- JSON
- Mail

- Password
- Selection
- String
- Text
- Time
- URL

## Relation ship

Relation ship are particular field which link two model.

The list are:

- Many2One
- **Many2Many**
  - List,
  - Thumbnail
  - **Form**
    - \* checkbox
    - \* tags
- One2Many

## Plugin

It is not a composent, it allow to save some function / object / class. This function / object / class are used and can be overwrite easily to change the behavior.

```
import plugin from './plugin';

const func = (props) => {...}
plugin(['path', 'to', 'save', 'in', 'plugin'], {Hello: func});

plugin.get(['path', 'to', 'save', 'in', 'plugin', 'Hello']);
```

### Contents

- *Store and Flow*
  - *client*
    - \* *UPDATE\_CLIENT*
    - \* *CLEAR\_CLIENT*
  - *leftmenu, rightmenu*
    - \* *UPDATE\_LEFT\_MENU, UPDATE\_RIGHT\_MENU*

- \* *CLEAR\_LEFT\_MENU, CLEAR\_RIGHT\_MENU*
- *global*
  - \* *UPDATE\_GLOBAL*
  - \* *CLEAR\_GLOBAL*
  - \* *ADD\_IN\_BREADSCRUMB*
  - \* *REMOVE\_FROM\_BREADSCRUMB*
  - \* *CLEAR\_BREADSCRUMB*
  - \* *ADD\_NOTIFICATION* (*mutation*)
  - \* *ADD\_NOTIFICATION* (*action*)
  - \* *REMOVE\_NOTIFICATION*
- *data*
  - \* *UPDATE\_ACTION*
  - \* *UPDATE\_VIEW*
  - \* *UPDATE\_DATA*
  - \* *DELETE\_DATA*
  - \* *UPDATE\_CHANGE*
  - \* *REPLACE\_CHANGE*
  - \* *CLEAR\_CHANGE*
  - \* *CREATE\_CHANGE\_X2M*
  - \* *UPDATE\_CHANGE\_X2M*
  - \* *UPDATE\_CHANGE\_X2M\_DELETE*
  - \* *UPDATE\_SPACE*
  - \* *CLEAR\_DATA*
- *View definition for store*
  - \* *List*
  - \* *Thumbnail*
  - \* *Form*

## CHAPTER 4

---

### Store and Flow

---

#### client

Add any information about a custom client:

```
store.state.client: {  
  ``custom view name``: {  
    ``params of the custom view``,  
  },  
  ...  
}
```

#### UPDATE\_CLIENT

Add params for a custom view:

```
{  
  type: 'UPDATE_VIEW_CLIENT',  
  viewName: ``custom view name``,  
  ``params ...``,  
}
```

#### CLEAR\_CLIENT

Clear all the params:

```
{  
  type: 'CLEAR_CLIENT'  
}
```

## leftmenu, rightmenu

It is the same for the both. The define dialog menu:

```
store.state.[ leftmenu | rightmenu ] = {
  value: {
    label: ``label of the selected menu``,
    image: {
      type: [ font-icon ],
      value: ``value in function of type to display the image``,
    },
  },
  values: [
    {
      label: ``label of the selected menu``,
      description: ``Description of the menu``,
      image: {
        type: [ font-icon ],
        value: ``value in function of type to display the image``,
      },
      type: [ SPACE | CLIENT ]
      id: ``space id or custom view name in function of type value``
    },
  ],
}
```

## UPDATE\_LEFT\_MENU, UPDATE\_RIGHT\_MENU

Update the menu definition or selected menu:

```
{
  type: [ UPDATE_LEFT_MENU | UPDATE_RIGHT_MENU ],
  value: {
    label: ``label of the selected menu``,
    image: {
      type: [ font-icon ],
      value: ``value in function of type to display the image``,
    },
  },
  values: [
    {
      label: ``label of the selected menu``,
      description: ``Description of the menu``,
      image: {
        type: [ font-icon ],
        value: ``value in function of type to display the image``,
      },
      type: [ SPACE | CLIENT ]
      id: ``space id or custom view name in function of type value``
    },
  ],
}
```

---

**Note:** value and values is not required

---



## CLEAR\_LEFT\_MENU, CLEAR\_RIGHT\_MENU

Clear the menu:

```
{
  type: [ CLEAR_LEFT_MENU | CLEAR_RIGHT_MENU ]
}
```

## global

Define the context of the application:

```
store.state.global = {
  title: ``title of the application``,
  modal_custom_view: ``the current modal custom view``,
  breadscrums: [
    {
      path: ``the path of the previous action``,
      label: ``label display in the breadcrumb``,
      changes: ``the changes did during the action``,
      position: ``to order the Array``,
    },
    ...
  ],
}
```

## UPDATE\_GLOBAL

Update the global values:

```
{
  type: 'UPDATE_GLOBAL',
  ``params``,
}
```

**Warning:** Used for title or modal\_custom\_view.

## CLEAR\_GLOBAL

Clear all the parameter in global:

```
{
  type: 'CLEAR_GLOBAL',
}
```

## ADD\_IN\_BREADSCUMB

Add new entry at the end of the breadcrumb:

```
{
  type: 'ADD_IN_BREADSCRUMB',
  path: ``the path to save``,
  label: ``the label to display``,
  changes: ``the state data changes to save``,
}
```

## REMOVE\_FROM\_BREADSCRUMB

Remove the breadcrumb entries if the position is higher than the wanted position:

```
{
  type: 'REMOVE_FROM_BREADSCRUMB',
  position: ``the position to delete``
}
```

## CLEAR\_BREADSCRUMB

Clear all the breadcrumb entries:

```
{
  type: 'CLEAR_BREADSCRUMB',
}
```

## ADD\_NOTIFICATION (mutation)

Add new notification in the notification stack:

```
{
  type: 'ADD_NOTIFICATION',
  process: 'commit',
  id: ``unique id``
  title: ``title of the notification``
  message: ``html template of the message``,
  has_icon: ``display icon only for notification type success, info, warning or_
↪error``,
  notification_type: [ ' ' | success | info | warning | error ],
}
```

**Warning:** If you need duration, you must use the action not the mutation

## ADD\_NOTIFICATION (action)

Add new notification in the notification stack:

```
{
  type: 'ADD_NOTIFICATION',
  process: 'dispatch',
  id: ``unique id``
}
```

```

title: ``title of the notification``
message: ``html template of the message``,
has_icon: ``display icon only for notification type success, info, warning or_
↪error``,
notification_type: [ '' | success | info | warning | error ],
duration: ``number of the duration before remove, null for sticky``,
}

```

## REMOVE\_NOTIFICATION

Remove from notifications stack the notification id:

```

{
  type: 'REMOVE_NOTIFICATION',
  id: ``id of the notification``,
}

```

## data

Save all the data for furet\_ui:

```

store.state.data = {
  actions: {
    ``action id``: {
      label: ``Label of the action``,
      views: [
        {
          viewId: ``view id``,
          type: ``type of view``,
        },
        ...
      ],
    },
    ...
  },
  views: {
    ``view's id``: {
      model: ``model's name``,
      ``view params which depend of the type of the view``
    },
  },
  data: {
    ``Model name``: {
      ``data id``: {
        ``data``,
        ...
      },
      ...
    },
    ...
  },
  changes: {
    new: {
      ``Model name``: {

```

```
        ``data id``: [ 'DELETED' || { ``data`` } ],
        ...
    },
    ...
},
``Model name``: {
    ``data id``: [ 'DELETED' || { ``data`` } ],
    ...
},
...
},
spaces: {
    left_menu: [
        ``menu params``,
        ...
    ],
    right_menu: [
        ``menu params``,
        ...
    ],
}
}
```

the left and right menu definition is the same:

```
[
    {
        label: ``displayed label``,
        image: {
            type: [ 'font-icon' ],
            value: ``value of the icon``,
            actionId: ``action id``,
            id: ``id of the menu``,
            submenus: [
                ``Same menu definition, to use the submenus don't put actionId``,
                ...
            ],
        },
    },
]
```

## UPDATE\_ACTION

Add action definition:

```
{
    type: 'UPDATE_ACTION_MANAGER_ADD_ACTION_DATA',
    actionId: ``action id``,
    label: ``Label of the action``,
    views: [
        {
            viewId: ``view id``,
            type: ``type of view``,
        },
        ...
    ],
}
```

## UPDATE\_VIEW

Update the data of one view:

```
{
  type: 'UPDATE_VIEW',
  viewId: ``view id``,
  model: ``model name``,
  ``params of the view``,
}
```

## UPDATE\_DATA

Update the data:

```
{
  type: 'UPDATE_DATA',
  model: ``Model name``,
  data: {
    ``data id``: {
      ``params``,
    },
    ...
  },
}
```

## DELETE\_DATA

Delete some data:

```
{
  type: 'DELETE_DATA',
  data: {
    ``Model name``: [
      ``data id``,
    ],
  },
}
```

## UPDATE\_CHANGE

Modify current change:

```
{
  type: 'UPDATE_CHANGE',
  model: ``Model name``,
  dataId: ``data id``,
  fieldname: ``name of the field``,
  value: ``new value to save``,
}
```

## REPLACE\_CHANGE

replace the change by another:

```
{
  type: 'REPLACE_CHANGE',
  changes: ``object``,
}
```

## CLEAR\_CHANGE

replace the change by another:

```
{
  type: 'CLEAR_CHANGE',
}
```

## CREATE\_CHANGE\_X2M

Add new change in the new entry, use by One2Many and Many2Many:

```
{
  type: 'CREATE_CHANGE_X2M',
  model: ``model name``,
  dataId: ``id of the data to create``
}
```

## UPDATE\_CHANGE\_X2M

Modify current change in new if exist or in the normal place:

```
{
  type: 'UPDATE_CHANGE_X2M',
  model: ``Model name``,
  dataId: ``data id``,
  fieldname: ``name of the field``,
  value: ``new value to save``,
}
```

## UPDATE\_CHANGE\_X2M\_DELETE

Remove the change in the new entry if exist else add the 'DELETED' in the normal place for the model and the dataIds:

```
{
  type: 'UPDATE_CHANGE_X2M_DELETE',
  model: ``Model name``,
  dataIds: [
    ``data id``,
    ...
  ],
}
```

## UPDATE\_SPACE

Update the space data:

```
{
  type: 'UPDATE_SPACE',
  spaceId: ``
  left_menu: [
    ``menu params``,
    ...
  ],
  right_menu: [
    ``menu params``,
    ...
  ],
}
```

## CLEAR\_DATA

Clear all the data:

```
{
  type: 'CLEAR_DATA'
}
```

## View definition for store

---

**Note:** the params are different for each view type

---

### List

```
label: ``label of the view``,
model: ``model name``,
creatable: ``true display the create button``,
deletable: ``true display the delete button``,
selectable: ``true display the check box``,
onSelect: ``view id to use if the line is clicked``,
empty: ``html template displayed when no data``,
headers: [
  {
    name: ``column name``,
    label: ``Label of the column``,
    component: ``the vue component name``
    sortable: ``true: the column is sortable``
    numeric: ``true the value is a numeric``
    invisible: ``condition to determinate if the field is displayed or not``
  },
  ...
],
search: [
```

```
{
  key: ``key used by the server to filter the data``,
  label: ``Label display of the key``,
  type: ``what ever if you need to split the filter``,
  operator: ``what ever if you want define this``,
  value: ``the value``,
},
...
],
buttons: [
  {
    label: ``Label of the button``,
    buttonId: ``id of the button``,
  },
  ...
],
onSelect_buttons: [
  {
    label: ``Label of the button``,
    buttonId: ``id of the button``,
  },
  ...
],
fields: [
  ``column name``,
  ...
],
],
```

## Thumbnail

```
label: ``label of the view``,
model: ``model name``,
creatable: ``true display the create button``,
deletable: ``true display the delete button``,
onSelect: ``view id to use if the line is clicked``,
border_fieldcolor: ``color to display can be hard coded or come from a field or eval_
↪some condition``,
background_fieldcolor: ``color to display can be hard coded or come from a field or_
↪eval some condition``,
search: [
  {
    key: ``key used by the server to filter the data``,
    label: ``Label display of the key``,
    type: ``what ever if you need to split the filter``,
    operator: ``what ever if you want define this``,
    value: ``the value``,
  },
  ...
],
template: ``template definition``,
buttons: [
  {
    label: ``Label of the button``,
    buttonId: ``id of the button``,
  },
  ...
],
```



```
],
fields: [
  ``column name``,
  ...
],
```

**Note:** For the template see the template page [Template](#)

## Form

```
label: ``label of the view``,
model: ``model name``,
creatable: ``true display the create button``,
deletable: ``true display the delete button``,
editable: ``true display the edit button``,
onClose: ``view id to use if the close button is clicked``,
template: ``template definition``,
buttons: [
  {
    label: ``Label of the button``,
    buttonId: ``id of the button``,
  },
  ...
],
fields: [
  ``column name``,
  ...
],
```

**Note:** For the template see the template page [Template](#)

### Contents

- *Client / Server Api*
  - `/furetui/init/required/data`
  - `/furetui/init/optionnal/data`
  - `/furetui/homepage`
  - `/furetui/button/<buttonId>`
  - `/furetui/custom/view/<viewName>`
  - `/furetui/view/<viewId>`
  - `/furetui/space/<spaceId>`
  - `/furetui/action/<actionId>`
  - `/furetui/field/x2x/search`
  - `/furetui/list/x2m/get`

- `/furetui/field/x2m/get/views`
- `/furetui/data/create`
- `/furetui/data/read`
- `/furetui/data/read/<dataId>`
- `/furetui/data/update`
- `/furetui/data/delete`
- `/furetui/data/call`
- *Default route for login and logout*
  - \* `/furetui/client/login`
  - \* `/furetui/client/logout`

## CHAPTER 5

---

### Client / Server Api

---

All the route use the **POST** method and the **JSON** rendering. They must all return list of store mutation. See the store page:

```
[
  ``store mutation``
    OR / AND
  ``translation definition``
    OR / AND
  ``locale``
    OR / AND
  ``client path for vue-router``
]
```

#### **/furetui/init/required/data**

First query called by FuretUI. The goal of this query is to initialize the client:

**Warning:** Return quick data, allow to display quickly the UI

#### **/furetui/init/optionnal/data**

Second call. The goal is to load heavy data to improve the client and allow a degradate mode

---

**Note:** The query can be slower than required data because the main data is already present and this application may be usable.

---

## **/furetui/homepage**

Called, when the router path is /

## **/furetui/button/<buttonId>**

Called, when the button is clicked with params in body:

- viewId
- model
- dataIds
- options

## **/furetui/custom/view/<viewName>**

Called when the custom view is called, is not required to respond to this query

## **/furetui/view/<viewId>**

Called when the view have been selected or changed.

## **/furetui/space/<spaceId>**

Called when the view space been selected or changed.

optionnal values in body:

- spaceId
- menuId
- actionId
- viewId
- dataId
- mode

## **/furetui/action/<actionId>**

Called when the view action been selected or changed.

optionnal values in body:

- spaceId
- menuId

- actionId
- viewId
- dataId
- mode

## /furetui/field/x2x/search

Call to by Many2One and Many2ManyTags to search the remote value  
the value in body are:

- model
- value
- fields

**Warning:** the wanted result is not a classical response

```
{
  ids: [ data id, ...
    ], data: [
      store mutation, OR / AND
      translation definition OR / AND
      locale OR / AND
      client path for vue-router
    ],
}
```

## /furetui/list/x2m/get

Call to by One2Many and Many2Many to get children values  
the value in body are:

- model
- viewId
- dataIds

## /furetui/field/x2m/get/views

Call to by One2Many and Many2Many to get the children views  
the value in body:

- viewIds

## `/furetui/data/create`

Call to save an unexisting data

the value in body are:

- model
- data
- changes: all the change not only for this data
- fields
- **path: optionnal**
  - spaceId
  - menuId
  - actionId
  - viewId

**Warning:** Don't forget to change path to pass in RO mode

## `/furetui/data/read`

Call to read entries in function of filter

the value in body are:

- model
- viewId
- filter
- fields

## `/furetui/data/read/<dataId>`

Call to read only one entry

the value in body are:

- model
- viewId
- new
- fields

## /furetui/data/update

Call to save an existing data

the value in body are:

- model
- dataId
- data
- changes: all the change not only for this data
- fields
- **path: optionnal**
  - spaceId
  - menuId
  - actionId
  - viewId

**Warning:** Don't forget to change path to use the good dataId and RO mode

## /furetui/data/delete

Call to remove an existing data

the value in body are:

- model
- dataIds

**Warning:** Don't forget to call the mutation to remove the dataIds also on furetui client

## /furetui/data/call

Call to remove an existing data

the value in body are:

- model
- search
- value

**Warning:** It is not a classical response, the goal it to define the available filter for search view

## Default route for login and logout

The view can be overwriting this route can be deprecated.

### `/furetui/client/login`

Call when the FuretUI user click on the `connection` button. The server may check the identity of the user and this access righth. The server:

### `/furetui/client/logout`

Call when the FuretUI user click on the `Logout` thumbnail. The server may close the session of the user. The server:

**Warning:** Dont forget to remove all the data

#### Contents

- *Mozilla Public License Version 2.0*
  - *1. Definitions*
    - \* *1.1. “Contributor”*
    - \* *1.2. “Contributor Version”*
    - \* *1.3. “Contribution”*
    - \* *1.4. “Covered Software”*
    - \* *1.5. “Incompatible With Secondary Licenses”*
    - \* *1.6. “Executable Form”*
    - \* *1.7. “Larger Work”*
    - \* *1.8. “License”*
    - \* *1.9. “Licensable”*
    - \* *1.10. “Modifications”*
    - \* *1.11. “Patent Claims” of a Contributor*
    - \* *1.12. “Secondary License”*
    - \* *1.13. “Source Code Form”*
    - \* *1.14. “You” (or “Your”)*
  - *2. License Grants and Conditions*
    - \* *2.1. Grants*
    - \* *2.2. Effective Date*
    - \* *2.3. Limitations on Grant Scope*
    - \* *2.4. Subsequent Licenses*



- \* *2.5. Representation*
  - \* *2.6. Fair Use*
  - \* *2.7. Conditions*
- *3. Responsibilities*
  - \* *3.1. Distribution of Source Form*
  - \* *3.2. Distribution of Executable Form*
  - \* *3.3. Distribution of a Larger Work*
  - \* *3.4. Notices*
  - \* *3.5. Application of Additional Terms*
- *4. Inability to Comply Due to Statute or Regulation*
- *5. Termination*
  - \* *5.1.*
  - \* *5.2.*
  - \* *5.3.*
- *6. Disclaimer of Warranty*
- *7. Limitation of Liability*
- *8. Litigation*
- *9. Miscellaneous*
- *10. Versions of the License*
  - \* *10.1. New Versions*
  - \* *10.2. Effect of New Versions*
  - \* *10.3. Modified Versions*
  - \* *10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses*
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#### Contents

- *Template*



## CHAPTER 7

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### Template

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The templates are used by `Form` and `Thumbnail` views, the template describe the view to display. The template come from the server and must apply some rules.