

[QA PLAYGROUND] 02

[QA PLAYGROUND] 02

1. ANCHOR LINKS TESTS

1.1. [ANCHORS] Headings 01

1.2. [ANCHORS] Headings 02

1.3. [ANCHORS] Headings 03

1.4. ANCHOR LINKS ☐☐ (cloned with children)

1.5. ANCHOR LINKS CONTENT SNIPPET

2. ANCHOR LINKS ☐☐ (cloned with children) (cloned with children)

2.1. Some other links Mihai

2.2. ANCHOR LINKS CONTENT SNIPPET

3. EXPANDABLES WITH CONTENT SNIPPETS

4. IFRAME

5. MALFORMED DOCUMENT

6. LINK GRIDS CARDS

7. LINK GRIDS NORMAL

8. SOME BLOCKS

9. TEX BLOCKS

10. Untitled

11. INDIVIDUAL BLOCKS

11.1. Heading 1

11.2. Heading 2

11.3. Heading 3

12. CATEGORY FOR LINK GRIDS

12.1. CATEGORY DOCUMENT

12.1.1. JUST A SIMPLE DOCUMENT

12.2. FIRST DOCUMENT

12.2.1. 1.1 DOCUMENT

12.2.2. 1.2 DOCUMENT

12.2.3. 1.3 DOCUMENT

12.2.4. HIDDEN DOCUMENT

12.3. HIDDEN DOCUMENT WITH CHILD

12.3.1. FIRST HIDDEN DOCUMENT

12.4. SECOND DOCUMENT

12.4.1. 2.1 DOCUMENT

12.4.2. 2.2 DOCUMENT

12.4.3. 2.3 DOCUMENT

12.4.4. HIDDEN DOCUMENT

12.5. THIRD DOCUMENT

12.5.1. 3.1 DOCUMENT

12.5.2. 3.2 DOCUMENT

12.5.3. 3.3 DOCUMENT

12.5.4. HIDDEN DOCUMENT

12.6. Untitled

13. API

13.1. List all items.

13.2. Add an item.

1. ANCHOR LINKS TESTS

1.1. [ANCHORS] Headings 01

[\[ANCHORS\] Headings 02](#)

[\[ANCHORS\] Headings 02](#)

[\[ANCHORS\] Headings 02](#)

[\[ANCHORS\] Headings 02](#)

[\[ANCHORS\] Headings 03](#)

[\[ANCHORS\] Headings 03](#)

[\[ANCHORS\] Headings 03](#)

[Éléments dépliables avec extraits de contenu](#)

[HEADING] Heading 1

∨ [EXP HEADING] Expandable Heading 1

Expandable Heading 1 Content

[HEADING] Heading 2

✓ **[EXP HEADING] Expandable Heading 2**

Expandable Heading 2 Content

[HEADING] Heading 3

✓ **[EXP HEADING] Expandable Heading 3**

Expandable Heading 3 Content

[TABLE] Heading 1	[TABLE] Heading 2	[TABLE] Heading 3
[TABLE] Heading 1	[TABLE] Heading 2	[TABLE] Heading 3

[CALLOUT] Heading 1

∨ **[CALLOUT] Expandable Heading 1**

Expandable Heading 1 Content

[CALLOUT] Heading 2

∨ **[CALLOUT] Expandable Heading 2**

Expandable Heading 2 Content

[CALLOUT] Heading 3

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[WORKFLOW] Heading 2

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[Anchors Left Tab](#)

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1.2. [ANCHORS] Headings 02

LINK[ANCHORS] Headings 03

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[TABLE] Heading 1	[TABLE] Heading 2	[TABLE] Heading 3

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[CALLOUT] Heading 2

∨ [CALLOUT] Expandable Heading 2

Expandable Heading 2 Content

[CALLOUT] Heading 3

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[VERTICAL TAB - LEFT] Heading 1

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Expandable Heading 1 Content

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1.3. [ANCHORS] Headings 03

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[HEADING] Heading 2

✓ [EXP HEADING] Expandable Heading 2

Expandable Heading 2 Content

[HEADING] Heading 3

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[TABLE] Heading 1	[TABLE] Heading 2	[TABLE] Heading 3

[CALLOUT] Heading 1

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[CALLOUT] Heading 2

∨ [CALLOUT] Expandable Heading 2

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[CALLOUT] Heading 3

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[Anchors Left Tab](#)

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1.4. ANCHOR LINKS (cloned with children)

Heading 1

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Heading 2

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Heading 3

∨ Expandable Heading 3

Expandable Heading 3 Content

 </>

FOR ANCHOR LINK

Get Cakes

Get a cake by its ID

GET

https://api.cakes.com



Request

BODY PARAMETERS

id	String	required
-----------	--------	-----------------

ID of the cake to get

```
var myHeaders = new Headers();
myHeaders.append("Accept", "application/json");
myHeaders.append("Content-Type", "application/json");

var raw = JSON.stringify({
  "id": "String"
});

var requestOptions = {
  method: 'GET',
  headers: myHeaders,
  body: raw,
  redirect: 'follow'
};

fetch("https://api.cakes.com", requestOptions)
  .then(response => response.text())
  .then(result => console.log(result))
  .catch(error => console.log('error', error));
```

```
{
  "name": "Cake's name",
}
```

Heading 1	Heading 2	Heading 3
Heading 1	Heading 2	Heading 3

Heading 1

Heading 2

Heading 3

▼ **Expandable Heading 1**

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Content

1 Heading 1

Heading 1

2 Heading 2

Heading 2

3 Heading 3

Heading 3

4 Expandable Heading 1

Content

5 Expandable Heading 2

Content

6 Expandable Heading 3

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Heading 2

Heading 3

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```

```
{
  "name": "Cake's name",
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```

Paste an image link or upload your image

Image URL

Add Image

/

1.5. ANCHOR LINKS CONTENT SNIPPET

Heading 1

∨ Expandable Heading 1

Expandable Heading 1 Content

Heading 2

∨ Expandable Heading 2

Expandable Heading 2 Content

Heading 3

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Expandable Heading 3 Content

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Heading 1	Heading 2	Heading 3
Heading 1	Heading 2	Heading 3

Heading 1

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▼ **Expandable Heading 1**

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▼ **Expandable Heading 3**

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∨ **Exp Heading 3**
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1 **Heading 1**

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2 Heading 2

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∨ **Expandable Heading 1**

Content

∨ **Expandable Heading 2**

Content

∨ **Expandable Heading 3**

Content

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2. ANCHOR LINKS (cloned with children) (cloned with children)

Heading 1

▼ Expandable Heading 1

Expandable Heading 1 Content

Heading 2

▼ Expandable Heading 2

Expandable Heading 2 Content

Heading 3

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Expandable Heading 3 Content

</>

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Heading 1	Heading 2	Heading 3
Heading 1	Heading 2	Heading 3

Heading 1

Heading 2

Heading 3

▼ **Expandable Heading 1**

Content

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Content

▼ **Expandable Heading 3**

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Content

1 **Heading 1**

Heading 1

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∨ **Expandable Heading 1**

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```
{
  "name": "Cake's name",
}
```

Paste an image link or upload your image

Image URL

Add Image

/

2.1. Some other links Mihai

one [GRAMATICAL ERRORS](#)

two [GRAMATICAL ERRORS](#)

three [GRAMATICAL ERRORS](#)

2.2. ANCHOR LINKS CONTENT SNIPPET

3. EXPANDABLES WITH CONTENT SNIPPETS

4. IFRAME

WebGL is required for this map.

We are sorry, but it seems that **your browser does not support WebGL**, a technology for rendering 3D graphics on the web.

[WebGL is required to display this map.](#)

[Read more](#)

REDIRECTS

[QA1 PLAYGROUND] 01 - MALFORMED DOCUMENT: [MALFORMED DOCUMENT](#)

[QA1 PLAYGROUND] 01 - SOME BLOCKS: [SOME BLOCKS](#)

[QA1 PLAYGROUND] 01 - EINIGE BLÖCKE: [EINIGE BLÖCKE](#)

[QA1 PLAYGROUND] 02 - THIS IS A CHILD DOCUMENT: [THIS IS A CHILD DOCUMENT](#)

[QA1 PLAYGROUND] 02 - TESTING DOCUMENT: [TESTING DOCUMENT](#)

[QA1 PLAYGROUND] 02 - DOCUMENT DE TEST: [DOCUMENT DE TEST](#)

[QA1 PLAYGROUND] 03 - THIS IS A CHILD DOCUMENT: [THIS IS A CHILD DOCUMENT](#)

[QA1 PLAYGROUND] 03 - TESTING DOCUMENT: [TESTING DOCUMENT](#)

5. MALFORMED DOCUMENT

The VAS Developer API requires an API key and OAuth token to authenticate requests, and features a two-layer authentication model to best protect our data and resources:

 Document image

Credentials to the VAS Developer API are unique to each integration partner. The VAS Integrations team manages and shares your credentials with you during the initial onboarding session. Be sure to keep all credentials and authentication details secure and do not share them in public domains.

✓ [Click here for details on generating your OAuth access token!](#)

The VAS Integrations team will share key details to get you started:

- Your `client_id` and `client_secret`, which you need to request a token
- The URL for the request

1. Send your request:

```
curl --location 'https://auth.prod.vas.com/connect/token' \  
--header 'Content-Type: application/x-www-form-urlencoded' \  
--data grant_type=client_credentials \  
--data client_id=your_client_id \  
--data client_secret=your_client_secret \  

```

1. sadsadasd

1. Receive your token and expiration details (in seconds) and a

`200 OK` response:

2. sadsada

3. sad

4. sa

5. das

```
{  
  "access_token": "abcdef...123456",  
  "token_type": "Bearer",  
  "expires_in": 3599  
}asdasdsa
```

NOTE:

sadsadsa

sadsa

dsad

a

- Access tokens are currently configured to expire in 3599 seconds (almost an hour), so your application will need to authenticate hourly.
- If the request fails, verify that your `client_id` and `client_secret` are correct. **Contact us** if you need help!

1 1

2 2

sdasdsad

sadsadsa

/

All VAS Developer API requests must be made to <https://>, and any calls made to <http://> will fail. API requests without the required authentication will also fail.

6. LINK GRIDS CARDS

FIRST DOCUMENT

HIDDEN DOCUMENT WITH
CHILD

SECOND DOCUMENT

THIRD DOCUMENT

Untitled

7. LINK GRIDS NORMAL

FIRST DOCUMENT

SECOND DOCUMENT

THIRD DOCUMENT

here is a new paragrah

8. SOME BLOCKS

Heading 1

▼ Expandable Heading 1

Expandable Heading 1 Content

Heading 2

▼ Expandable Heading 2

Expandable Heading 2 Content

Heading 3

▼ Expandable Heading 3

Expandable Heading 3 Content

- Checklist
- Checklist 2
- Checklist 3




TABLE	TABLE	TABLE
TABLE	TABLE	TABLE
TABLE	TABLE	TABLE
TABLE	TABLE	TABLE

BUTTON

Callout

VERTICAL SPLIT, LEFT SIDE

VERTICAL SPLIT, RIGHT SIDE

Doing MINI TASK 1	Testing MINI TASK 2	Done MINI TASK 3
 LINK GRID 1	 LINK GRID 2	 LINK GRID 3

- 1 Workflow 1
Content of workflow 1
- 2 Workflow 2
Content of workflow 2

TAB 1

TAB 2

Content of Tab 1

- Bullet list 1
 - Bullet list 2
 - Bullet list 3
- 1. Numbered list 1
 - 1. Numbered list 2
 - 1. Numbered list 3

9. TEX BLOCKS

$$m_{\text{yeast}} = \left(\frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \right) V_{\text{final}}$$

$$Y_{\text{fermenter}} = \frac{m_{\text{yeast}}}{m_{\text{molasses}}}$$

$$\eta = \begin{cases} 1, & \text{if } T \geq 30^\circ\text{C} \\ 0, & \text{if } T < 30^\circ\text{C} \end{cases}$$

$$c = \frac{m}{V} \text{ [g/L]}$$

$$m_{\text{yeast}} = \left(\frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \right) V_{\text{final}}$$

$$Y_{\text{fermenter}} = \frac{m_{\text{yeast}}}{m_{\text{molasses}}}$$

$$\eta(T) = \begin{cases} 1, & \text{if } 30^\circ\text{C} \leq T \leq 35^\circ\text{C} \\ 0.8, & \text{if } 25^\circ\text{C} \leq T < 30^\circ\text{C} \\ 0, & \text{if } T < 25^\circ\text{C} \end{cases}$$

$$c_{\text{yeast}} = \frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \text{ [g/L]}$$

$$\mathbf{x} = \begin{bmatrix} m_{\text{sample,dry}} \\ V_{\text{sample}} \\ V_{\text{final}} \\ m_{\text{molasses}} \end{bmatrix}, \quad \mathbf{f}(\mathbf{x}) = \begin{bmatrix} \left(\frac{x_1}{x_2} \right) x_3 \\ \left(\frac{x_1}{x_2} \right) x_3 \\ x_4 \end{bmatrix}$$

$$m_{\text{yeast}} = f_1(\mathbf{x}), \quad Y_{\text{fermenter}} = f_2(\mathbf{x})$$

$$m_{\text{yeast}} = \left(\frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \right) V_{\text{final}}$$

$$\ln(m_{\text{yeast}}) = \ln(m_{\text{sample,dry}}) - \ln(V_{\text{sample}}) + \ln(V_{\text{final}})$$

$$\left(\frac{\sigma_{m_{\text{yeast}}}}{m_{\text{yeast}}} \right)^2 = \left(\frac{\sigma_{m_{\text{sample,dry}}}}{m_{\text{sample,dry}}} \right)^2 + \left(\frac{\sigma_{V_{\text{sample}}}}{V_{\text{sample}}} \right)^2 + \left(\frac{\sigma_{V_{\text{final}}}}{V_{\text{final}}} \right)^2$$

$$Y_{\text{fermenter}} = \frac{m_{\text{yeast}}}{m_{\text{molasses}}}$$

Given: $m_{\text{sample,dry}}, V_{\text{sample}}, V_{\text{final}}, m_{\text{molasses}}, T, t, t_f$

Concentration: $c_{\text{yeast}} = \frac{m_{\text{sample,dry}}}{V_{\text{sample}}} \text{ [g/L]}$

Total yeast: $m_{\text{yeast}} = c_{\text{yeast}} V_{\text{final}}$

Fermenter yield: $Y_{\text{fermenter}} = \frac{m_{\text{yeast}}}{m_{\text{molasses}}}$

Temperature factor: $\eta(T) = \begin{cases} 0, & T < 25^\circ\text{C} \\ 0.8 + 0.04(T - 25^\circ\text{C}), & 25^\circ\text{C} \leq T < 30^\circ\text{C} \\ 1, & 30^\circ\text{C} \leq T \leq 35^\circ\text{C} \\ \exp(-0.2(T - 35^\circ\text{C})), & T > 35^\circ\text{C} \end{cases}$

A simple growth profile: $m_{\text{yeast}}(t) = \frac{m_{\text{max}}}{1 + \exp(-k \eta(T)(t - t_0))}$

Net production (from 0 to t_f): $\Delta m_{\text{yeast}} = m_{\text{yeast}}(t_f) - m_{\text{yeast}}(0)$

Mass balance check: $\epsilon = \frac{\Delta m_{\text{yeast}}}{m_{\text{molasses}}} - Y_{\text{target}}$

Decision: pass if $|\epsilon| \leq 0.02$, fail otherwise

Uncertainty propagation (relative): $\left(\frac{\sigma_{m_{\text{yeast}}}}{m_{\text{yeast}}} \right)^2 = \left(\frac{\sigma_{m_{\text{sample,dry}}}}{m_{\text{sample,dry}}} \right)^2 + \left(\frac{\sigma_{V_{\text{sample}}}}{V_{\text{sample}}} \right)^2$

And for yield: $\left(\frac{\sigma_{Y_{\text{fermenter}}}}{Y_{\text{fermenter}}} \right)^2 = \left(\frac{\sigma_{m_{\text{yeast}}}}{m_{\text{yeast}}} \right)^2 + \left(\frac{\sigma_{m_{\text{molasses}}}}{m_{\text{molasses}}} \right)^2$

Inputs: $m_{\text{sample,dry}} = 1.25 \text{ g}$, $V_{\text{sample}} = 25 \text{ mL}$, $V_{\text{final}} = 18,000 \text{ L}$, m_{m}

Unit conversions: $V_{\text{sample}} = 25 \times 10^{-3} \text{ L}$, $m_{\text{molasses}} = 9.5 \times 10^6 \text{ g}$

Step 1 (conc.): $c_{\text{yeast}} = \frac{1.25}{25 \times 10^{-3}} = 50 \text{ g/L}$

Step 2 (total): $m_{\text{yeast}} = 50 \times 18,000 = 9.0 \times 10^5 \text{ g}$

Step 3 (yield): $Y_{\text{fermenter}} = \frac{9.0 \times 10^5}{9.5 \times 10^6} = 0.0947$

Constraint checks: $0 < Y_{\text{fermenter}} < 0.2$, $V_{\text{final}} > 0$, $V_{\text{sample}} > 0$

Vector form: $\mathbf{x} = \begin{bmatrix} m_{\text{sample,dry}} \\ V_{\text{sample}} \\ V_{\text{final}} \\ m_{\text{molasses}} \end{bmatrix}$, $\mathbf{g}(\mathbf{x}) = \begin{bmatrix} \left(\frac{x_1}{x_2}\right) x_3 \\ \left(\frac{x_1}{x_2}\right) x_3 \\ x_4 \end{bmatrix}$

Outputs: $\begin{bmatrix} m_{\text{yeast}} \\ Y_{\text{fermenter}} \end{bmatrix} = \mathbf{g}(\mathbf{x})$

10. Untitled

11. INDIVIDUAL BLOCKS

11.1. Heading 1

Heading 1

11.2. Heading 2

Heading 2

11.3. Heading 3

Heading 3

12. CATEGORY FOR LINK GRIDS

12.1. CATEGORY DOCUMENT

12.1.1. JUST A SIMPLE DOCUMENT

12.2. FIRST DOCUMENT

THIS IS THE CONTENT OF THE FIRST DOCUMENT.

12.2.1. 1.1 DOCUMENT

12.2.2. 1.2 DOCUMENT

12.2.3. 1.3 DOCUMENT

12.2.4. HIDDEN DOCUMENT

12.3. HIDDEN DOCUMENT WITH CHILD

12.3.1. FIRST HIDDEN DOCUMENT

12.4. SECOND DOCUMENT

THIS IS THE CONTENT OF THE SECOND DOCUMENT.

12.4.1. 2.1 DOCUMENT

12.4.2. 2.2 DOCUMENT

12.4.3. 2.3 DOCUMENT

12.4.4. HIDDEN DOCUMENT

12.5. **THIRD DOCUMENT**

THIS IS THE CONTENT OF THE THIRD DOCUMENT.

12.5.1. 3.1 DOCUMENT

12.5.2. 3.2 DOCUMENT

12.5.3. 3.3 DOCUMENT

12.5.4. HIDDEN DOCUMENT

12.6. Untitled

title:

slug: liPn-

createdAt: Wed Dec 10 2025 13:15:20 GMT+0000 (Coordinated Universal Time)

updatedAt: Sun Dec 14 2025 09:05:19 GMT+0000 (Coordinated Universal Time)

13. API

13.1. List all items.

GET

https://api.example.com/v1/item

Try it ▶

Optional server description, e.g. Main (production) server

Lists all the items.

Responses

▼ ● 200 OK

▼ item[]

> bad integer

> good integer

 Curl

 JS

 Ruby

 Python



```
curl --request GET \  
  --url https://api.example.com/v1/item \  
  --header 'accept: application/json'
```

Responses

● 200



```
// OK
[
  {
    "bad": 0,
    "good": 1
  }
]
```

13.2. Add an item.

POST

https://api.example.com/v1/item

Try it ▶

Optional server description, e.g. Main (production) server

Credentials

HTTP Bearer Bearer

Enter http bearer value

Body Parameters

▼ body item

> bad integer

> good integer

Responses

● 200 OK

Curl

JS JS

Ruby

Python



```
curl --request POST \  
  --url https://api.example.com/v1/item \  
  --header 'accept: application/json'
```

Responses

● 200



```
// OK
```