TPE - Notion

⏱ Created	@November 15, 2022 5:19 PM
⊙ Class	BDII
≡ Type	Práctica
⌀ Materials	

Usuarios

```
{
  "_id": "id_user",
  "name": "Hernan Finucci Roca",
  "e-mail": "hernanfinucci@itba.edu.ar",
  "password": "ececlwebfbc3lewvbcl3wlrie"
  "pages": [
    "page1"
  ]
}
```

Funcionalidades

```
{
  "_id": "page1",
  "type": "page",
  "properties": {
    "title": "TPE - Notion",
    "icon": "notebook",
    "created": "November 15, 2022 5:19 PM",
    "created_by": "id_user"
  }
  "content": [
    "id_text",
    "id_h1",
    "id_h2",
    "id_h3",
    "id_quote",
    "id_callout",
    "id_bullet",
    "id_toggle",
    "id_todo",
    "id_image",
    "id_eq"
  ]
}
```

- Tipos de texto

  text

  ```
  {
    "_id": "id_text",
    "type": "text",
    "properties": {
      "type-face": [], //"bold", "italic", "underlined"
      "color": "default", //"gray", "brown",...
      "highlight": "default" //"gray", "brown",...
    },
  ```

```
  "value": "text",
  "parent": "page1"
}
```

h1

```
{
  "_id": "id_h1",
  "type": "h1",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "value": "h1",
  "parent": "page1"
}
```

h2

```
{
  "_id": "id_h2",
  "type": "h2",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "value": "h2",
  "parent": "page1"
}
```

h3

```
{
  "_id": "id_h3",
  "type": "h3",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "value": "h3",
  "parent": "page1"
}
```

> quote

```
{
  "_id": "id_quote",
  "type": "quote",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "value": "quote",
  "parent": "page1"
}
```

💡 callout

```
{
  "_id": "id_callout",
  "type": "callout",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default", //"gray", "brown",...
    "icon": "electric light bulb"
  },
  "value": "callout",
  "parent": "page1"
}
```

- Bullet lists

```
{
  "_id": "id_bullet",
  "type": "bullet_list",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "content": [
    "id_child_1"
  ]
  "value": "Bullet lists",
  "parent": "page1"
}
```

  - child 1

    ```
    {
      "_id": "id_child_1",
      "type": "bullet_list",
      "properties": {
        "type-face": [], //"bold", "italic", "underlined"
        "color": "default", //"gray", "brown",...
        "highlight": "default" //"gray", "brown",...
      },
      "content": [
        "id_child_2"
      ]
      "value": "child 1",
      "parent": "id_bullet"
    }
    ```

    - child 2

      ```
      {
        "_id": "id_child_2",
        "type": "bullet_list",
        "properties": {
          "type-face": [], //"bold", "italic", "underlined"
          "color": "default", //"gray", "brown",...
          "highlight": "default" //"gray", "brown",...
        },
        "value": "child 2",
        "parent": "id_child_1"
      }
      ```

- Toggle list

  ▼ toggle

    ```
    {
      "_id": "id_toggle",
      "type": "toggle_list",
    ```

```
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "content": [
    "id_child"
  ]
  "value": "toggle",
  "parent": "page1"
}
```

▼ child

```
{
  "_id": "id_child",
  "type": "toggle_list",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "content": [
    "id_text_1"
  ]
  "value": "child",
  "parent": "id_toggle"
}
```

texto

```
{
  "_id": "id_text_1",
  "type": "text",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default" //"gray", "brown",...
  },
  "value": "texto",
  "parent": "id_child"
}
```

- To-do list

  ☑ ~~implementar mongo~~

```
{
  "_id": "id_todo",
  "type": "todo_list",
  "properties": {
    "type-face": [], //"bold", "italic", "underlined"
    "color": "default", //"gray", "brown",...
    "highlight": "default", //"gray", "brown",...
    "checked": true
  },
  "content": [
    "id_imp_redis"
  ]
  "value": "implementar mongo",
  "parent": "page1"
}
```

  ☐ implementar redis

```
{
  "_id": "id_imp_redis",
  "type": "todo_list",
  "properties": {
```

```
        "type-face": [], //"bold", "italic", "underlined"
        "color": "default", //"gray", "brown",...
        "highlight": "default", //"gray", "brown",...
        "checked": false
      },
      "value": "implementar redis",
      "parent": "id_todo"
    }
```

- Image

Es un caption

```
{
  "_id": "id_image",
  "type": "image",
  "properties": {
    "caption": "Es un caption",
    "align": "center" //"left", "right"
  },
  "value": "iVBORw0KGgoAAAANSUhEUgAAAMgAAADICAMAAACahl6sAAAA+VBMVEX////cOC2jIyGsKCN0EBLKwsKoLiy/LSfYNiy3jouoJSK+LSa3KiXCLievJyPTNCvKMSn2zcq
  "parent": "page1"
}
```

- Equation

$$f(a,b,c) = (a^2 + b^2 + c^2)^3$$

```
{
  "_id": "id_eq",
  "type": "equation",
  "value": "f(a,b,c) = (a^2+b^2+c^2)^3",
  "parent": "page1"
}
```

Dashboard

En Redis…

Key	Value
text	2
h1	1
h2	1
h3	1
quote	1
callout	1
bullet	3
toggle	2
todo	2

Key	Value
image	1
equation	1

Tipos de Datos

En funcionalidades y usuarios son todos string menos:

- `_id` → ObjectId
- `parent` → ObjectId
- `properties` → Object
  - `created` → Date
  - `type-face` → Array
  - `checked` → Boolean
- `content` → Array
- `pages` → Array

Endpoints

Páginas

- Crear una página: `POST /pages`
- Buscar una página: `GET /pages/{id}`
- Buscar todas las páginas: `GET /pages`
- Eliminar una página: `DELETE /pages/{id}`

Bloques

- Crear un bloque: `POST /blocks`
- Buscar un bloque: `GET /blocks/{id}`
- Editar un bloque: `PUT /blocks/{id}`
- Eliminar un bloque: `DELETE /blocks/{id}`

Usuarios

- Crear un usuario: `POST /user`
- Autenticar un usuario: `POST /user/auth`
- Buscar todas las páginas de un usuario: `GET /user/{id}/pages`

Dashboard

- Obtener dashboard: `GET /dashboard`

Tecnologías a utilizar

- Express
- TypeScript

- Autenticación con JWT

Base de datos a usar

MongoDB

Se utiliza para persistir la información de los usuarios y de las páginas

Redis

Se utilizaría como un dashboard global. Se guardarían estadísticas acerca de la cantidad de tipos de bloques que hay en toda la base de datos.

A Futuro…

- Implementar páginas privadas.
- Implementar links a paginas