



# 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": "ecec1webfbc3lewbcl3wlr1e"
  "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": "iVBORw0KGgoAAAANSUhEugAAAMgAAADICAMAAACah16sAAAA+VBMVEX////c0C2jIyGsKCN0EBLKwsKoLiy/LSfYNIy3jouoJSK+LSa3K1XCLievJyPTNCvKMSn2zcq",
  "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