Persistencia Poliglota





TTROJO

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POR QUÉ COUCHDP ...viiDE

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UZ

JUlion.

Caracteristic rincipales

04

AROUITECTURA

Cómo comunicar a PouchDB con CouchDB para recuperar mis notas

SISTEMA DE NOTAS

Introducción a la idea implementada

```
"_id": "2021-07-10T20:47:44.327Z",
"_rev": "11-713ba65529660df60c97c7e7262ca6b5",
"type": "page", //tipos posibles: check, bullet, title, paragraph, page
"text": "nueva nota",
"properties": {
  "content": [
   "2021-07-15T00:56:27.877Z", // id de documentos hijos
   "2021-07-15T00:57:10.947Z",
    "2021-07-15T00:57:38.069Z",
   "2021-07-15T00:58:03.983Z",
   "2021-07-15T00:58:11.548Z",
    "2021-07-15T00:58:16.602Z",
"parent": null // documento padre
```

```
"_id": "2021-07-15T00:56:27.877Z",
" rev": "2-2713959ec456eefdaa31763bd19f1342",
"type": "title",
"text": "Primer titulo",
"properties": {
  "content": []
},
"parent": "2021-07-10T20:47:44.327Z"
```

Nueva pagina dentro de vieja pagina

Primer titulo

```
"_id": "2021-07-15T00:57:38.069Z",
" rev": "1-1af4d31c574302f0d69b0ab78aee4276",
"type": "page",
"text": "Nueva pagina dentro de vieja pagina",
"properties": {
  "content": []
},
"parent": "2021-07-10T20:47:44.327Z"
```

```
" id": "2021-07-15T00:57:10.947Z",
" rev": "1-e305024e8f01f60957f63bbf3fa8e876",
"type": "paragraph",
"text": "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been
"properties": {
  "content": []
},
"parent": "2021-07-10T20:47:44.327Z"
```

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

```
"_id": "2021-07-15T00:58:03.983Z",
" rev": "1-ef8a21b900b990ffcf7acd46a33fb65d",
"type": "bullet",
"text": "Un bullet",
"properties": {
 "icon": "circle",
 "content": []
"parent": "2021-07-10T20:47:44.327Z"
```

- Un bullet
- Dos bullets
- Tres bullets

```
"_id": "2021-07-15T00:59:04.162Z",
" rev": "2-410c097d421e7b5070d536dbb692282c",
"type": "check",
"text": "Segundo check",
"properties": {
 "completed": false,
 "content": [
"parent": "2021-07-15T00:58:32.870Z"
```

Checklist

- Primer check
- Segundo check
 - Check adentro de segundo check
 - Segundo check dentro del check
- Tercer check

nueva nota

Primer titulo

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Nueva pagina dentro de vieja pagina

- Un bullet
- Dos bullets
- Tres bullets

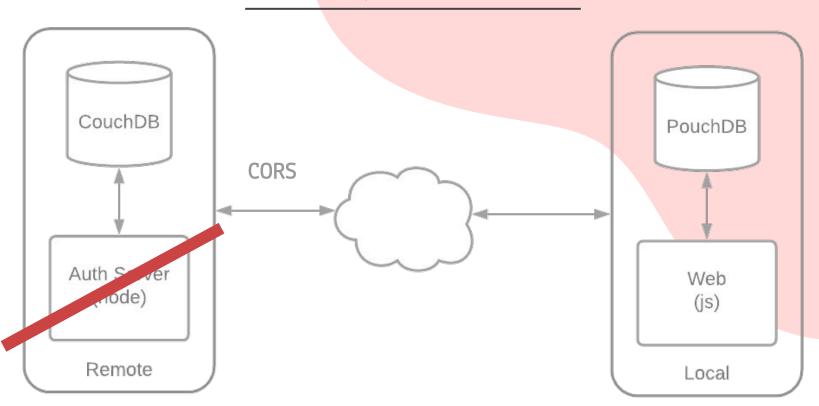
Checklist

- Primer check
- Segundo check
 - Check adentro de segundo check
- Tercer check

ARQUITECTURA

Cómo comunicar a PouchDB con CouchDB para recuperar mis notas

ARQUITECTURA



BACKEND

CouchDB

- Validar credenciales
- Generar tokens
- Manejar usuarios
- Almacenar las notas y usuarios
- Sincronización de los datos
- Una db por usuario

FRONTEND

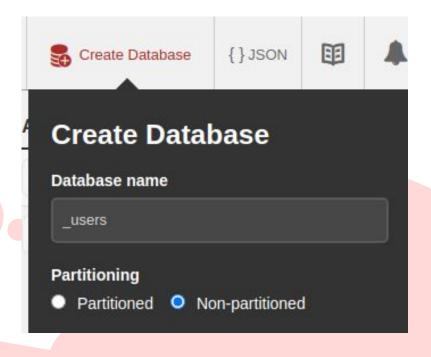
Web

- Manejo de login y credenciales
- Vue.js → Librería: <u>PouchVue</u>

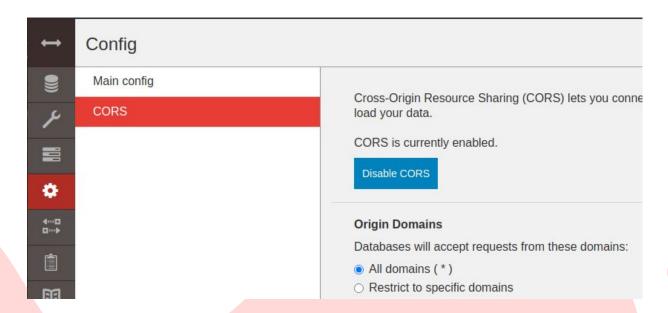
PouchDB

- Sincronización de la información
- Replica local
- Trabajo offline

1. Crear DB _users



2. Habilitar CORS

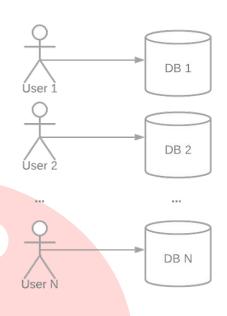


Permite conectarse a servers remotos directamente desde el browser

3. Habilitar couch_peruser



couch_peruser	database_prefix	userdb-
	delete_dbs	false
	enable	true



4. Habilitar seguridad editable

Config

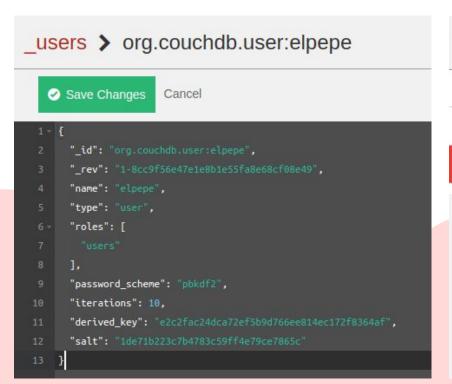
Main config

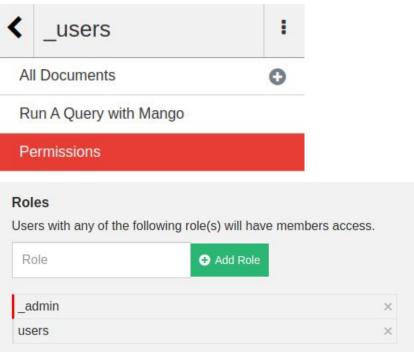
CORS

Permite asignar roles a los usuarios

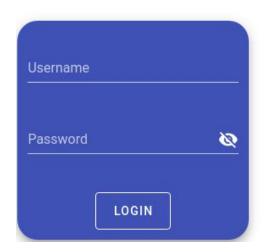
couchdb users_db_security_editable true

5. Crear usuario y asignar rol





6. Login



```
Name
_users
userdb-656c70657065
```

```
connectToDatabase() {
  let database = "userdb-" + String2Hex(this.username);
  let dbURL = "http://localhost:5984/" + database;
  console.log(database);
  this.$pouch
  .connect(this.username, this.password, dbURL)
```

QUERIES

Posibles operaciones CRUD a utilizar



OBTENER PÁGINAS SIN PÁGINA PADRE



OBTENER UNA NOTA POR SU ID

```
pouch: {
    // The simplest usage. queries all documents from the "todos" pouch database and assigns them to the "todos" vue property.
    note() {
        return {
            database: this.$store.state.user.db.name,
            selector: { _id: this.$route.params.note_id },
            first: true,
        };
    },
}
```

```
// The simplest usage. queries all documents from the "todos" pouch database and assigns them to the "todos" vue property.

NoteComponent() {
    return {
        database: this.$store.state.user.db.name,
        selector: { _id: this.id },
        first: true,
        };
    },
},
```

CREAR UN NUEVO BULLET VS NUEVO CHECK

```
putBullet() {
  let note = {
    _id: new Date().toISOString(),
    properties: {
      content: [],
    parent: this.NoteComponent._id,
    .put(note, options: {}, this.$store.state.user.db.name)
    .then((doc) => {
      console.log(doc);
    1)
    .catch( onRejected: (err) => {
      console.log(err);
  return note._id;
```

```
putNewCheck() {
 let note = {
    _id: new Date().toISOString(),
    properties: {
    parent: this.NoteComponent._id,
    .put(note, options: {}, this.$store.state.user.db.name)
    .then((doc) => {
      console.log(doc);
    .catch( onRejected: (err) => {
      console.log(err);
  return note._id;
```

BORRAR UNA NOTA Y SUS HIJOS RECURSIVAMENTE

```
deleteComponent() {
  this.loading = true;
  let parent_id = this.NoteComponent.parent;
  let component_id = this.NoteComponent._id;
  if (parent_id !== null) {
    this. Spouch
      .get(parent_id)
      .then((doc) => {
        this.editComponentContent(doc, component_id);
      })
      .catch( onRejected: (err) => {
        console.log(err);
      });
  this.deleteRec(this.NoteComponent);
  this.loading = false;
```

```
deleteRec(note) {
 if (note.properties.content.length !== 0) {
    note.properties.content.forEach((note_id) => {
      this. $pouch.get(note_id).then((doc) => {
        this.deleteRec(doc);
     });
   });
 this. Spouch
    .remove(note, options: {}, this.$store.state.user.db.name)
    .catch((err) => {
     console.log(err);
   });
```

DEMO TIME!