

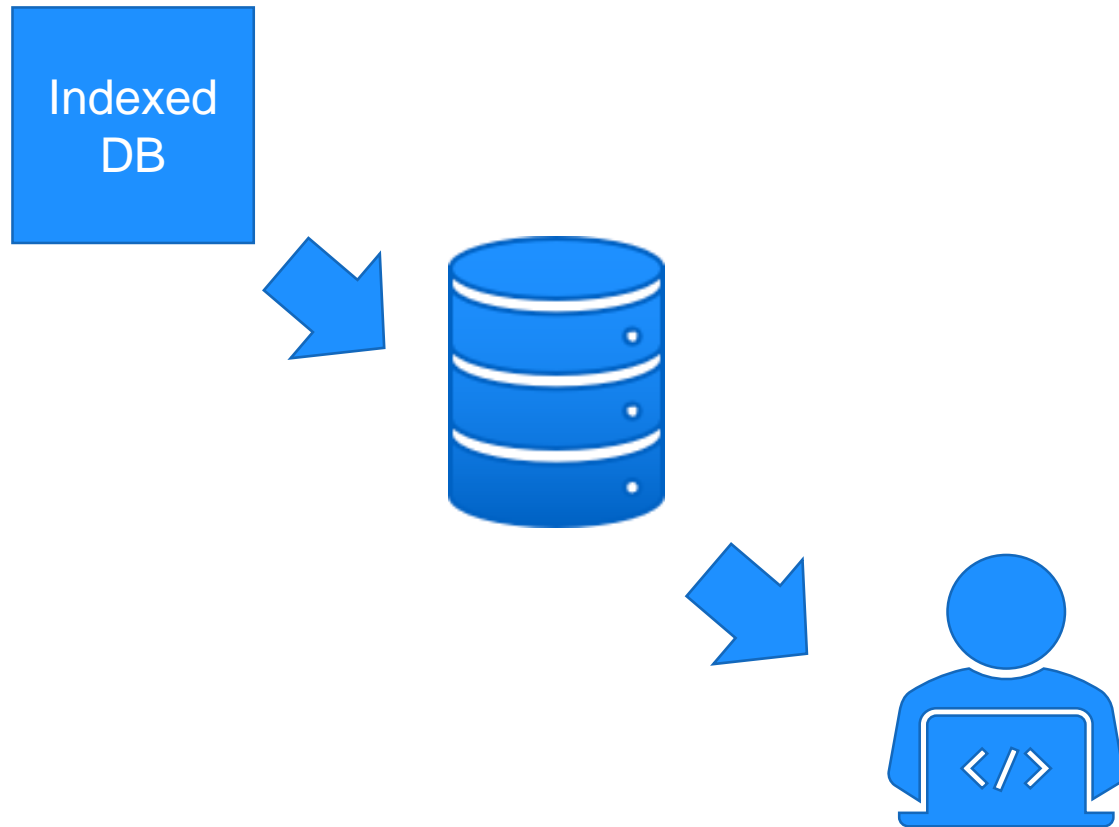


IndexSQL

CBD PROJECT

DANIEL DIMENT RODRÍGUEZ

What is IndexSQL?



IndexSQL is a wrapper that helps with the use of **IndexedDB**.

But, what is IndexedDB?



IndexedDB is a low-level API for client-side storage in the web.

That is a database for the browser, to store data in the client.

It works by storing in tables a key and a json object.

Why not to use IndexedDB, then?

INSERT IN INDEXEDDB

```
let requestDB = indexedDB.open("IndexSQL",1);
requestDB.onerror = function(event) {
    log.warn("Database error: " + event.target.errorCode);
};
requestDB.onsuccess=function(event){
    let db=event.target.result;
    let transaction = db.transaction(["persons"], "readwrite");

    transaction.onerror = function(event) {
        console.warn("Database error: " + event.target.errorCode);
    };

    transaction.oncomplete = function(event) {
        //SAVED
    };

    var objectStore = transaction.objectStore("persons");
    var request = objectStore.put({Name:"pipo", ect...},DBUtils.name);
}
```

INSERT IN INDEXSQL

```
var indexSQL=new IndexSQL("demo");
indexSQL.execute('INSERT INTO Persons (Name, IsMale) VALUES ("pipo",
true);', function(result){
    //SAVED
});
```

Characteristics of IndexSQL

- Compatible with major browsers
- It does not block HTML DOM
- It is fast
- Easy to use for people with knowledge of SQL

The JSON-SQL Architecture

CREATE TABLE Orders ("Orders;OrderID;PersonID:Persons(PersonID)": {
OrderID number AUTO_INCREMENT	"OrderID;0;NUMBER;AUTO_INCREMENT,": {
PersonID number,	"0": 0
PRIMARY KEY (OrderID),	},
FOREIGN KEY (PersonID)	"PersonID;2;NUMBER": {
REFERENCES Persons(PersonID)	"0": 0
);	}
	}

Now, a living demo

<https://dandimrod.github.io/IndexSQL/demo.html>

Any questions?

