## Note Web Application

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## 1 Javascript Introduction

Javascript is backward compapatible, to be able to use the previous features is use the directive:

```
"use strict";
```

JS has primitive types and non-primitive types, JS is also and strongly typed language, the primitive types are: string, number, boolean, null, undefined. The non-primitive are the objects, which can be: array, function, user-defined.

The all possible false values in JS: 0, -0, NaN, undefined, null,'', in JS there are two main comparison operators:

```
a == b // equal, convert types and compare
a === b // strict equal, inhibits automatic type conversion
```

In JS you can create variable with:

The difference between null and undefined, is that variable with null they old a value which is null, on the other way if a variable is declared and nothing is associated with it the value olds by default undefined.

A scope is defined by a **block**, which is created with ...

There two kinds of foreach in JS, using in allows iterating over objects, while of allows iterating over iterable objects:

```
for (let a in object) {
   ...
}

for (let b of iterable) {
   ...
}
```

Using arrays:

The **destructuring assignment** can be done, it extracts the values from the mast left-hand side:

```
1 let [x, y] = [1, 2];
2 [x, y] = [y, x] // swap
```

The **spread operator** (...) expands on iterable object into it's values:

```
let [x, ...y] = [1, 2, 3, 4];  // y == [2, 3, 4]
const a = [1, 2];
const b = [0, ...a, 3]; // [0, 1, 2, 3]
```

Spreding can be from the left or from the right, usually the spread operator is used for copying array:

```
const a = [1, 2];
const b = [...a];
```

A string is JS is an immutable type (like python) encoded in Unicode. The **template** literals can be done with the **tick** operator '' (expression like Kotlin):

```
let name = 'Bre';
let sur = 'Mend';
// Template literal
let fullName = '${name} ${sur}';
```