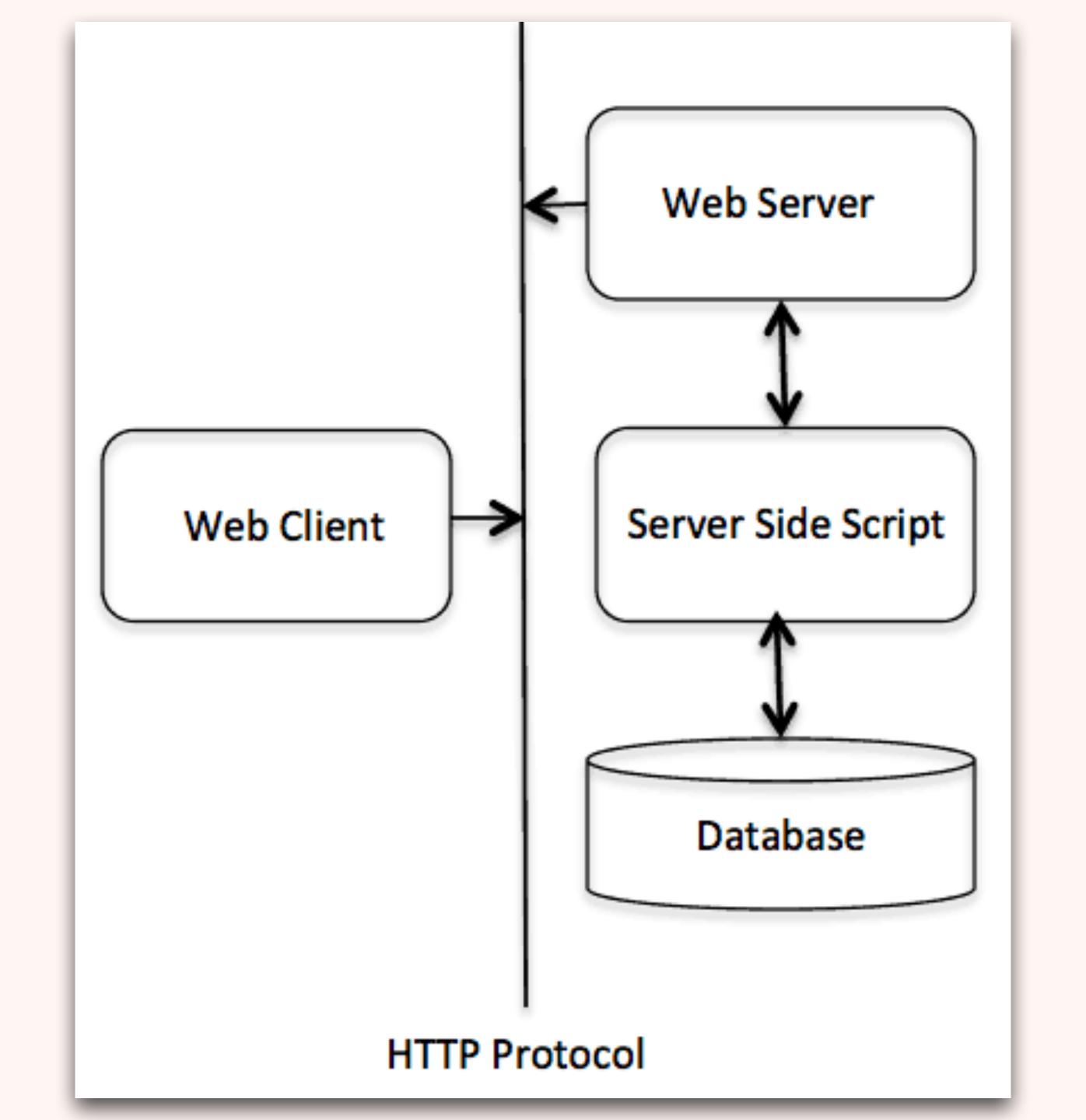
JAVASCRIPT

HTTP

- > HTTP Hyper Text Transfer Protocol
- Communication between clients and servers is done by requests and responses:
 - A client (a browser) sends an HTTP request to the web
 - An web server receives the request
 - The server runs an application to process the request
 - The server returns an HTTP response (output) to the browser
 - The client (the browser) receives the response



HTTP REQUEST METHODS

- **GET** requests a representation of the specified resource. Requests using GET should only retrieve data.
- **POST** sends data to the server. The type of the body of the request is indicated by the Content-Type header.
- **HEAD** requests the headers that are returned if the specified resource would be requested with an HTTP GET method.
- > **PUT** method creates a new resource or replaces a representation of the target resource with the request payload.
- **PATCH** method applies partial modifications to a resource.

HTTP Status Codes



REGULAR EXPRESSIONS

- Regular expression is an object that describes a pattern of characters.
- To perform powerful pattern-matching and search-and-replace functions on text.
- Two ways: new RegExp(pattern, attributes) or /pattern/attributes
 - pattern A string that specifies the pattern of the regular expression or another regular expression.
 - **attributes** An optional string containing any of the "g", "i", and "m" attributes that specify global, case-insensitive, and multi-line matches, respectively.

REGEXP METHODS

test() - searches a string for a pattern, and returns true or false, depending on the result.

```
1 console.log(/abc/.test("abcde"));
2 // → true
3 console.log(/abc/.test("abxde"));
4 // → false
```

```
1 console.log(/[0123456789]/.test("in 1992"));
2 // → true
3 console.log(/[0-9]/.test("in 1992"));
4 // → true
```

```
let dateTime = /\d\d-\d\d-\d\d\d\d\d\d\d\d\d\;
console.log(dateTime.test("01-30-2003 15:20"));
// → true
console.log(dateTime.test("30-jan-2003 15:20"));
// → false
```

STRING METHODS

• .replace() - replaces a specified value with another value in a string.

```
console.log("Borobudur".replace(/[ou]/, "a"));
// → Barobudur
console.log("Borobudur".replace(/[ou]/g, "a"));
// → Barabadar
```

search() - to search for a match, and returns the position of the match. Returns the first index on which the expression was found, or -1 when it wasn't found.

```
1 console.log(" word".search(/\S/));
2 // → 2
3 console.log(" ".search(/\S/));
4 // → -1
```

• .match() - find all matches of the pattern in the string and return an array containing the matched strings.

```
1 console.log("Banana".match(/an/g));
2 // → ["an", "an"]
```

PATTERNS

/abc/	A sequence of characters
/[abc]/	Any character from a set of characters
/[^abc]/	Any character not in a set of characters
/[0-9]/	Any character in a range of characters
/x+/	One or more occurrences of the pattern \times
/x+?/	One or more occurrences, nongreedy
/x*/	Zero or more occurrences
/x?/	Zero or one occurrence
/x{2,4}/	Two to four occurrences
/(abc)/	A group
/a b c/	Any one of several patterns
/\d/	Any digit character
/\w/	An alphanumeric character ("word character")
/\s/	Any whitespace character
1./	Any character except newlines
/\b/	A word boundary
/^/	Start of input
/\$/	End of input