

# Web Güvenliđi



# Tarihi



## WORLD-WIDE-WEB

ARPANET

ETHERNET



iTunes



?



1969 1973 1976 1982 1990 1994 1995 1998 1999 2003 2004 2005 2007 2009 2010 2012 2014

INTERNET

FTP & TCP/IP



Google



YouTube

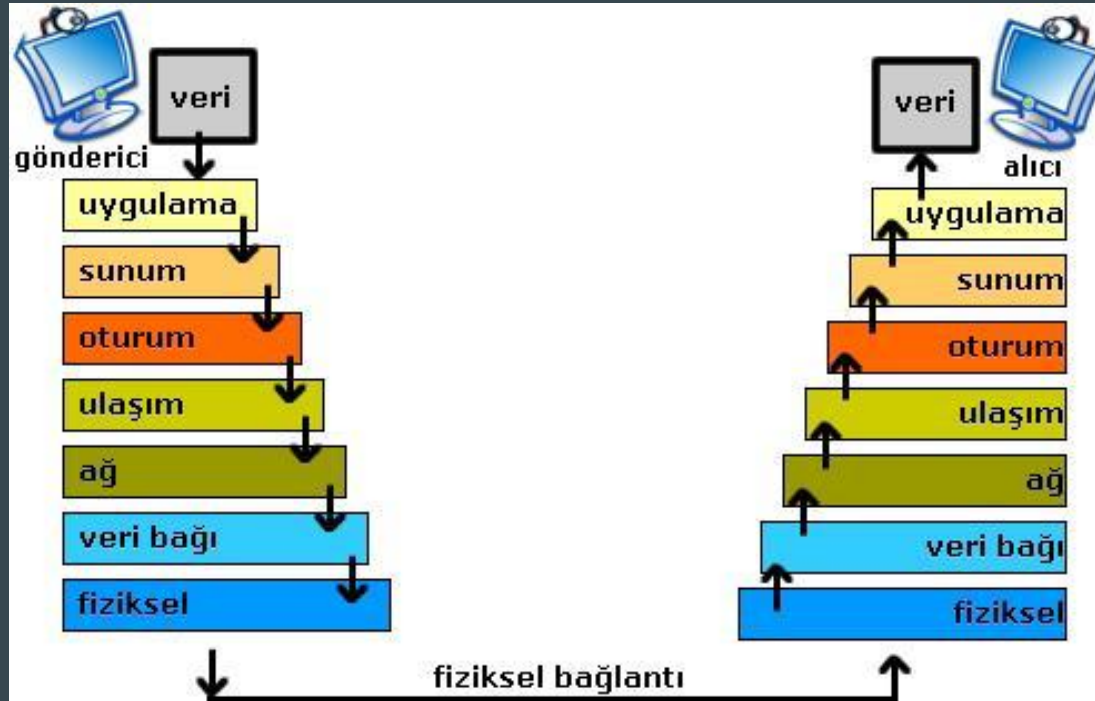


?

# Genel Kavramlar

1. OSI Modeli
2. TCP/IP
3. ISP (Internet Service Provider)
4. Server (Sunucu)
5. DNS (Domain Name Server)
6. Domain (Alan Adı)
7. HTTP / HTTPS
8. Request - Response

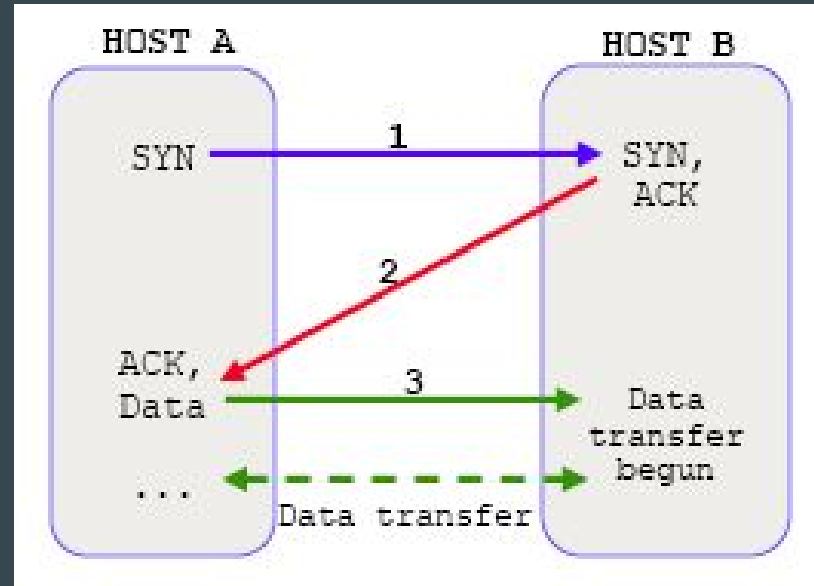
# OSI Modeli



# TCP/IP



# 3-Way Handshake



**10.0.0.0 - 10.255.255.255**

**172.16.0.0 - 172.31.255.255**

**192.168.0.0 - 192.168.255.255**



# Domain Nedir?



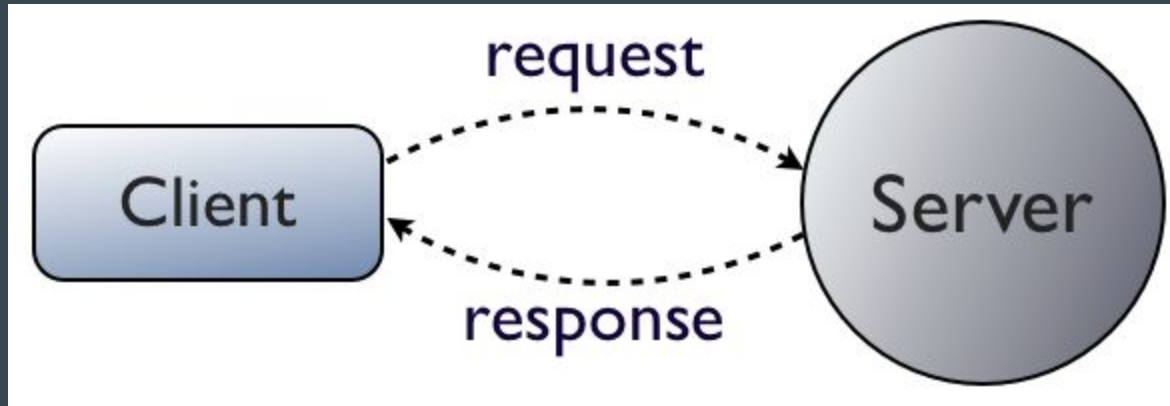


A search bar with a thin blue border. On the right side of the bar, there are two icons: a keyboard icon and a microphone icon.

Google'da Ara

Kendimi Şanslı Hissediyorum

# HTTP



# HTTP Methods

---

Method	Description
GET	Request to read a Web page
HEAD	Request to read a Web page's header
PUT	Request to store a Web page
POST	Append to a named resource (e.g., a Web page)
DELETE	Remove the Web page
TRACE	Echo the incoming request
CONNECT	Reserved for future use
OPTIONS	Query certain options

# Status Codes

## Error 404

Woops. Looks like this page doesn't exist.

# HTTP Status Codes

Code	Description	Code	Description
200	OK	400	Bad Request
201	Created	401	Unauthorized
202	Accepted	403	Forbidden
301	Moved Permanently	404	Not Found
303	See Other	410	Gone
304	Not Modified	500	Internal Server Error
307	Temporary Redirect	503	Service Unavailable

So when I get into work tomorrow...



...What do I do?



# Web Tabanlı Uygulamalar ve Teknolojiler

...

Teknolojiler, Frameworkler, Araçlar...



**I heard you want to be a web developer**



**Here are a few devices to test your site**



# Open Source

...

Ortak Kod Havuzu (Github)  
Proje temeli (boiler plate)  
Kod blokları (npm)



**OPEN SOURCE !?!?**

**AND WE WONDER WHY WE  
GET HACKED.!!**

**UNIX?**

**OOH THAT OPEN SOURCE OS THAT I  
COPIED AND MADE TONS OF MONEY?  
COME AT ME BRO**

# Ortamına Göre Web Tabanlı Uygulama Gelistirme

...

Front-end ve Back-end  
Client-side ve Server-side



# FRONT-END





# Front-end



HTML, CSS, Javascript  
ve Frameworkleri

```

91     <div class="resim">
92     <div id="itemHolder"><img id="itemIcon" src=""/><div id="itemName"></div></div>
93     </div>
94 </div>
95
96 <div id="scroller" class="container">
97     <div id="questionText" class="soru">&nbsp;<br>&nbsp;</div>
98     <div class="secenekler">
99         <li id="c_1li" onclick="choice(1)" class="shadow-top"> <span id="c_1">&nbsp;</li>
100         <li id="c_2li" onclick="choice(2)" class="shadow-top"> <span id="c_2">&nbsp;</li>
101         <li id="c_3li" onclick="choice(3)" class="shadow-top"> <span id="c_3">&nbsp;</li>
102         <li id="c_4li" onclick="choice(4)" class="shadow-top"> <span id="c_4">&nbsp;</li>
103     </div>
104
105 </div>
106 <div class="subheader">
107     <li class="share" onclick="shareCover()"> Paylaş</li>
108     <li onclick="skipQuestion()"> Pas Geç</li>
109 </div>
110 </div>
111 <div id="login" style="width:100%;height:100%;">
112     <div class="header">
113         <div class="menu" onclick="switchBar()"></div>
114         <div class="logo">Stratera<b>Quiz</b></div>
115         <div class="right"></div>
116     </div>
117     <div class="resim" style="background:url(img/bg_main.jpg); background-size:cover;width:100%;height:100%; background-po
118 </div>

```

```
62 button {  
63     background-image: -webkit-gradient(linear, 43% 0%, 43% 110%, color-stop(0, rgb(221, 221, 221)), color-stop(0.01, rgb(221, 221, 221)));  
64     background-image: -webkit-linear-gradient(-90deg, rgb(221, 221, 221) 0%, rgb(221, 221, 221) 1%, rgb(204, 204, 204) 4%, rgb(170, 170, 170) 8%, rgb(136, 136, 136) 12%);  
65     background-image: linear-gradient(180deg, rgb(221, 221, 221) 0%, rgb(221, 221, 221) 1%, rgb(204, 204, 204) 4%, rgb(170, 170, 170) 8%, rgb(136, 136, 136) 12%);  
66     width: auto;  
67     height: auto;  
68     border: rgb(153, 153, 153) 1px solid;  
69     -webkit-border-radius: 50px;  
70     border-radius: 50px;  
71     margin: 5px;  
72     padding: 17px;  
73     font: normal 16px/120% "Intel Clear W", Arial, sans-serif;  
74     color: rgb(84, 84, 84);  
75     text-align: center;  
76     text-shadow: 0px 1px 0px rgb(221, 221, 221);  
77     margin-bottom: 15px;  
78 }  
  
79  
80 button:focus {  
81     background-image: -webkit-gradient(linear, 43% 0%, 43% 110%, color-stop(0, rgb(136,136,136)), color-stop(0.01, rgb(136,136,136)));  
82     width: auto;  
83     height: auto;  
84     -webkit-border-radius: 50px;  
85     border-radius: 50px;  
86     margin: 5px;  
87     padding: 17px;  
88     font: normal 16px/120% "Intel Clear W", Arial, sans-serif;  
89     color: rgb(238,238,238);  
90     text-align: center;
```

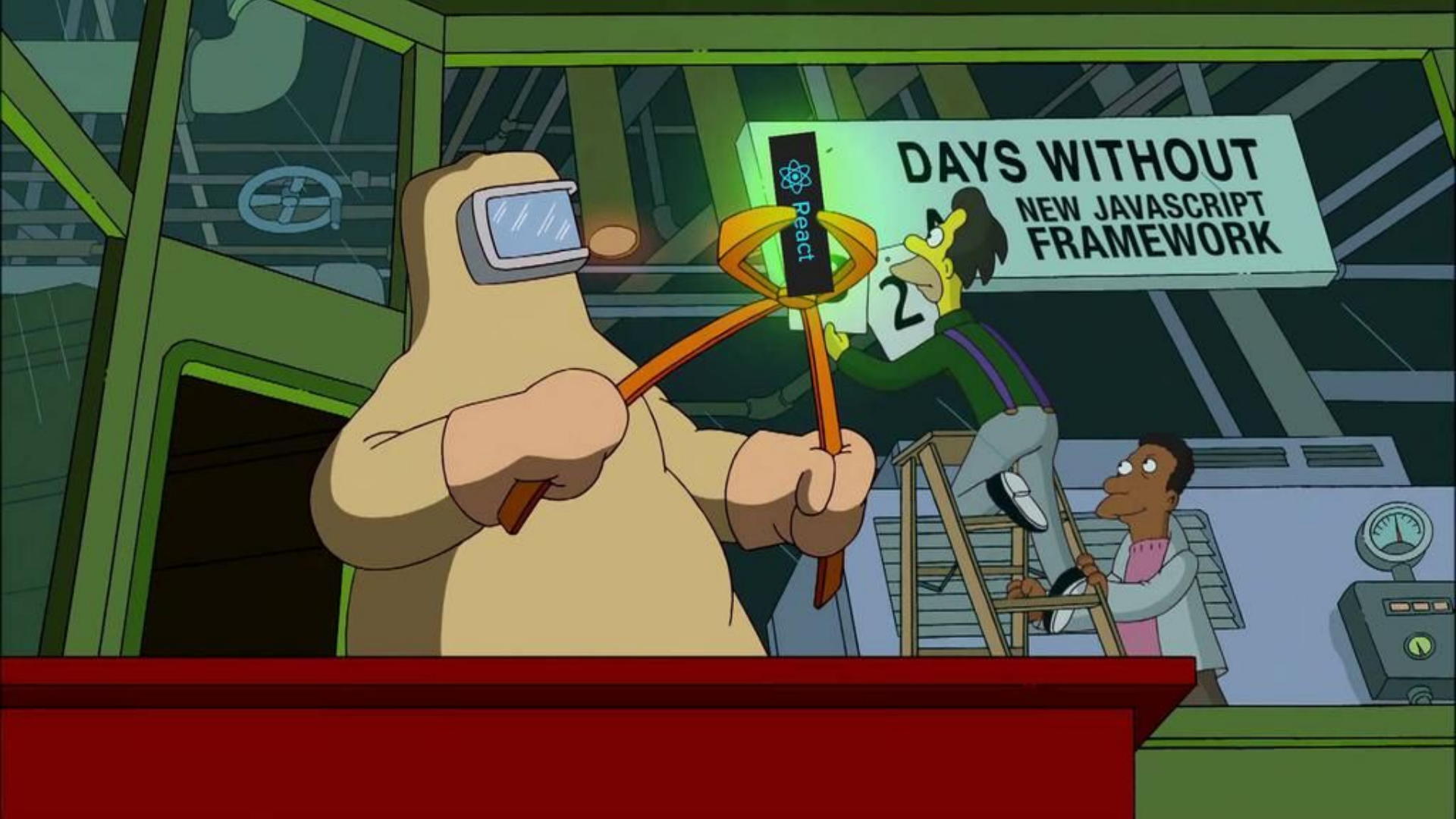
```
82 function newQuestion() {
83     questionCounter++;
84     if(questionCounter == 10){ questionCounter = 1;
85         createInterstitial(); }
86     openCover();
87     var xhttp = new XMLHttpRequest();
88     var questionObj;
89     xhttp.onreadystatechange=function() {
90         if (xhttp.readyState == 4 && xhttp.status == 200) {
91             questionObj = JSON.parse(xhttp.responseText);
92
93             document.getElementById("itemHolder").style.display = "none";
94
95             var questionAskStyle = randomInt(1,3);
96             var questionStyle;
97             var theQuestionImage;
98             questionTypeReturn = questionObj.type;
99             if(questionObj.type==0){
100
101                 questionStyle = questionObj.data1;
102                 theQuestionImage = "img/jenerik/"+randomInt(1,12)+".jpg"; //changable
103
104             }else if(questionObj.type==1){
105
106                 data1Split = questionObj.data1.split("|");
107                 var champName = data1Split[0];
108                 var champPerma;
```

# Javascript Frameworkleri

...

jQuery, Backbone.js  
Angular, React, Vue, Aurelia





# Back-end

...

PHP, Java, .NET, Ruby, Python, Perl,  
Node.js, Go...

**FUCK IT**

**WE'LL USE PHP  
INSTEAD**

memegenerator.net

GDG

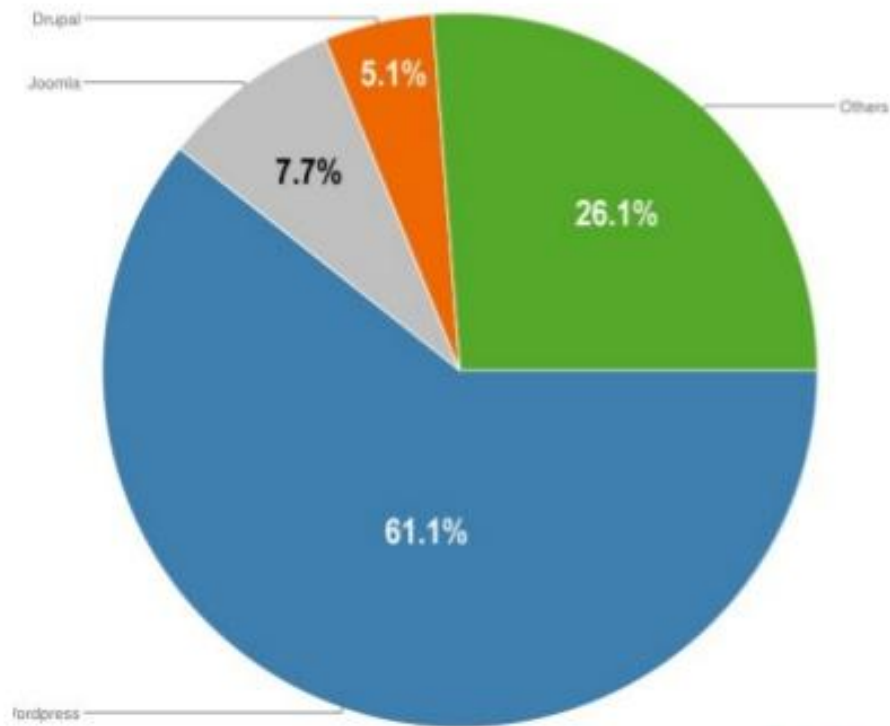
ubaneswar

# PHP

Çok kullanan var!



# CMS Usage Statistics





# Full Stack?

...

Javascript FTW

# Web Server

...

Apache, nginx, LiteSpeed  
IIS, GWS

Server Version: Apache/2.2.16 (Unix) PHP/5.3.3 with Suhosin-Patch mod\_ssl/2.2.16 OpenSSL/1.0.0a DAV/2  
Server Built: Aug 17 2010 12:52:36

```
Current Time: Saturday, 02-Oct-2010 19:56:35 IST
Restart Time: Saturday, 02-Oct-2010 19:22:21 IST
Parent Server Generation: 1
Server uptime: 34 minutes 14 seconds
1 requests currently being processed, 5 idle workers
```

```
U.....  
.....  
.....  
.....  
  
Scoreboard Key:  
" " Waiting for Connection, "S" Starting up, "R" Reading Request,  
"V" Sending Reply, "K" Keepalive (read), "D" DNS Lookup,  
"C" Closing connection, "L" Logging, "G" Gracefully finishing,  
"I" Idle cleanup of worker, "O" Open slot with no current process
```

```
PID Key:
5727 in state: - ,    5728 in state: - ,    5729 in state: -
5730 in state: W ,    5731 in state: - ,    5732 in state: -
```

To obtain a full report with current status information you need to use the `ExtendedStatus On` directive.

**Commands:** Use arrow keys to move, '?' for help, 'q' to quit, '<-' to go back.

Arrow keys: Up and Down to move. Right to follow a link; Left to go back.

```
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

```
[ bhaskar-laptop ] [ 0-$ Net (1*$ bash)
```

```
][0.49 0.43 0.51][ 10/02 19:57 ]
```

**RESTARTS APACHE**



**OMG, I AM A SYSADMIN!**

# Database

...

SQL - NoSQL

MySQL, MsSQL, PostgreSQL

MongoDB, Redis, Solr, Elastic







**RELATIONAL DATABASE**

**HISTORY.COM**

memes.com



# SQL OR NOSQL

Why don't we have both?



# Tech-Stack

...

Bir projede birlikte kullanılan teknolojiler bütünü.

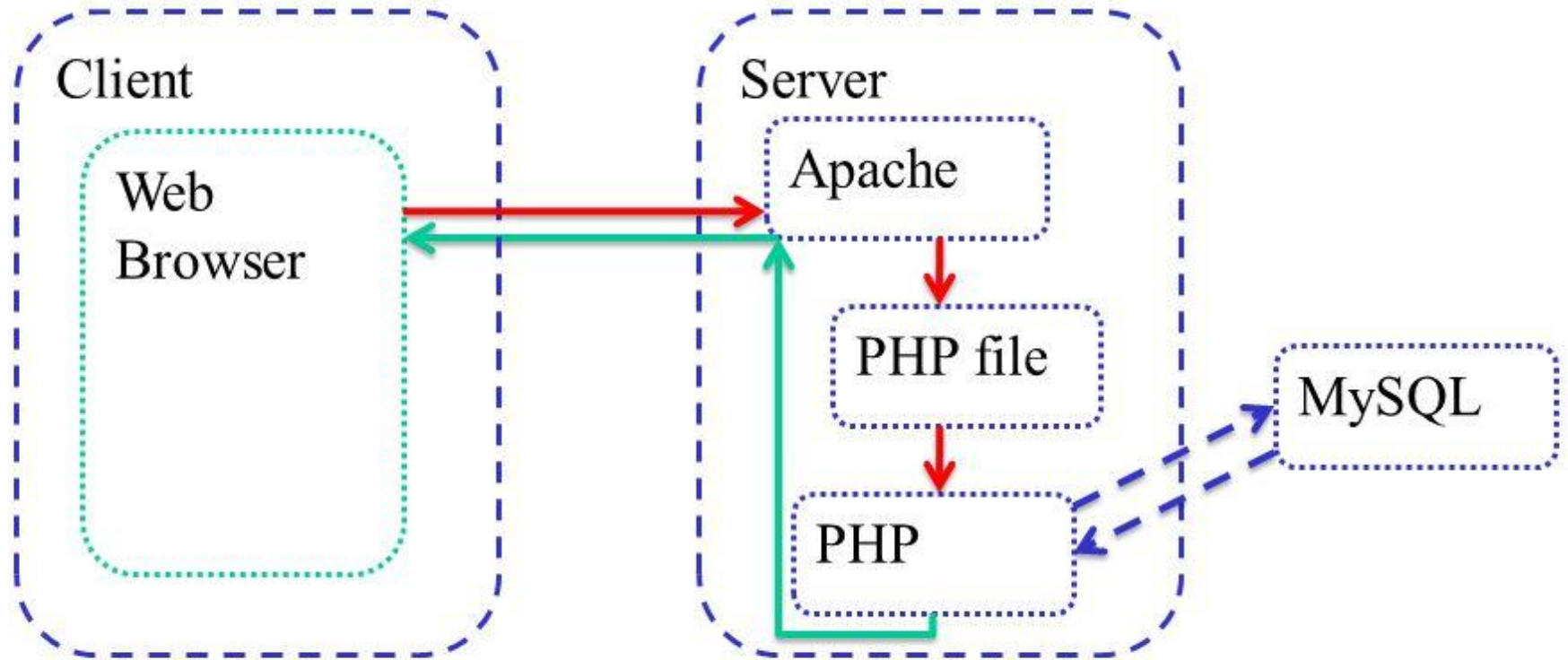
LAMP - MEAN

# LAMP

...

Linux, Apache, MySQL, PHP (Perl-Phyton)





This is often referred to as a LAMP (or WAMP) stack:

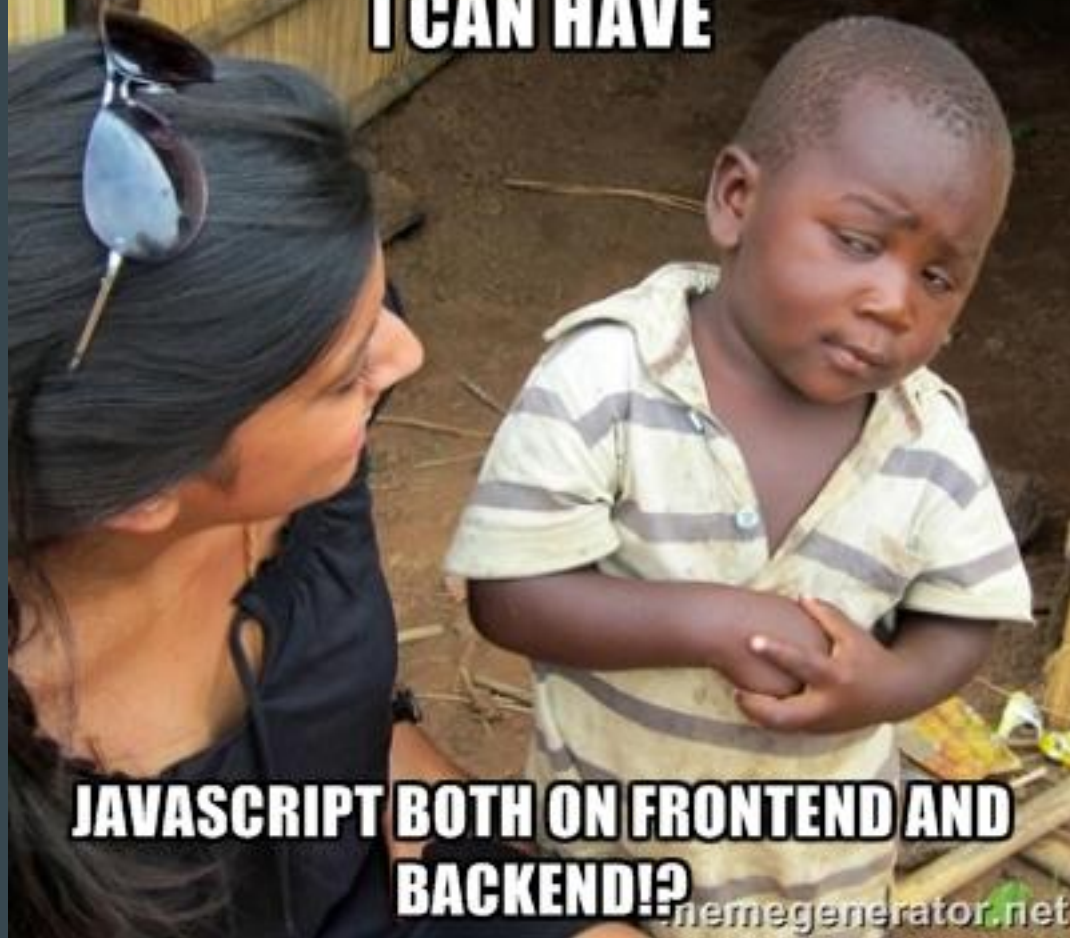
**Linux (or Windows) Apache MySQL PHP**

# MEAN

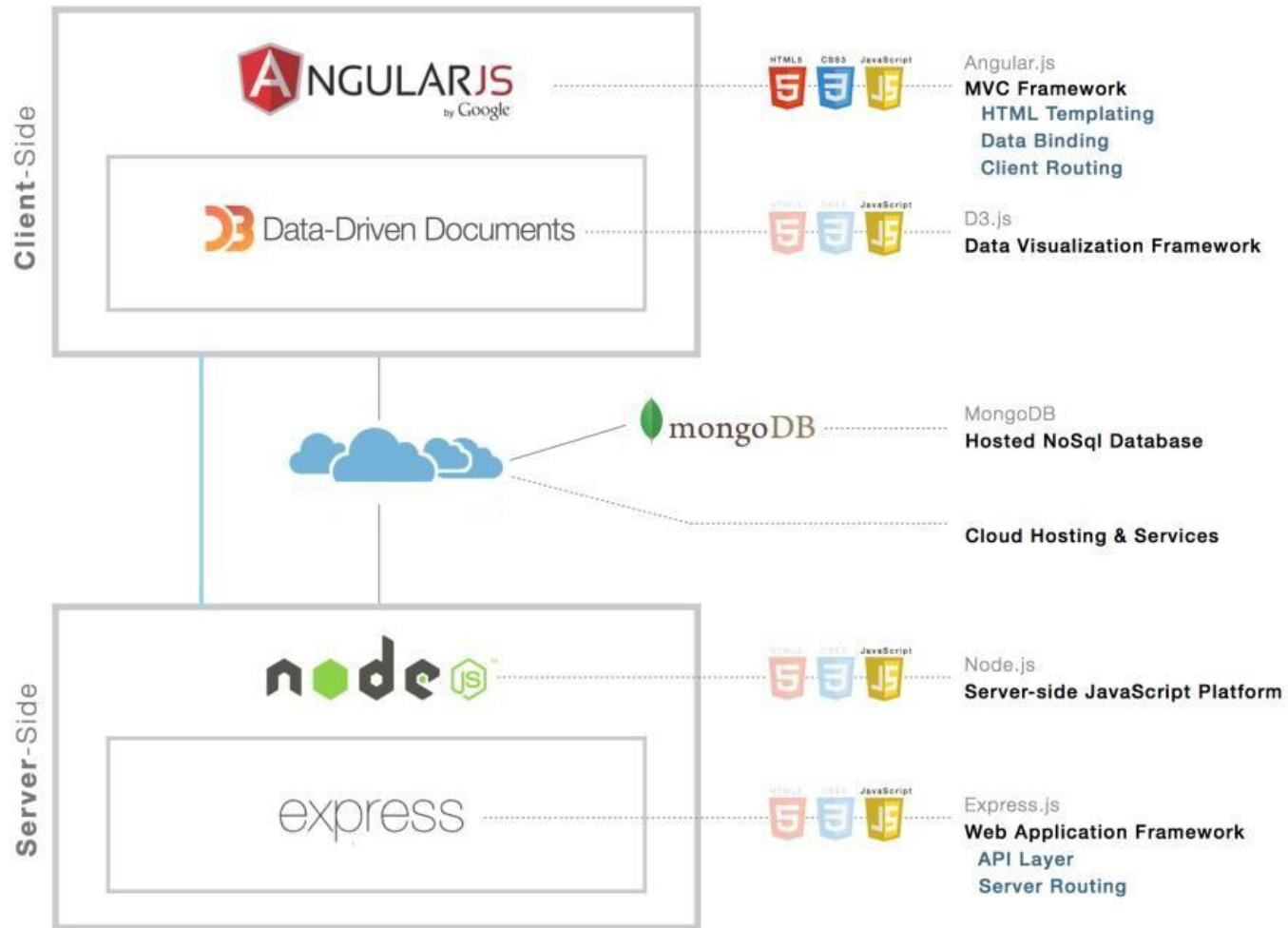
...

MongoDB, ExpressJS, AngularJS, NodeJS  
(V8 Engine)

**SO, WHAT YOU'RE SAYING IS THAT  
I CAN HAVE**

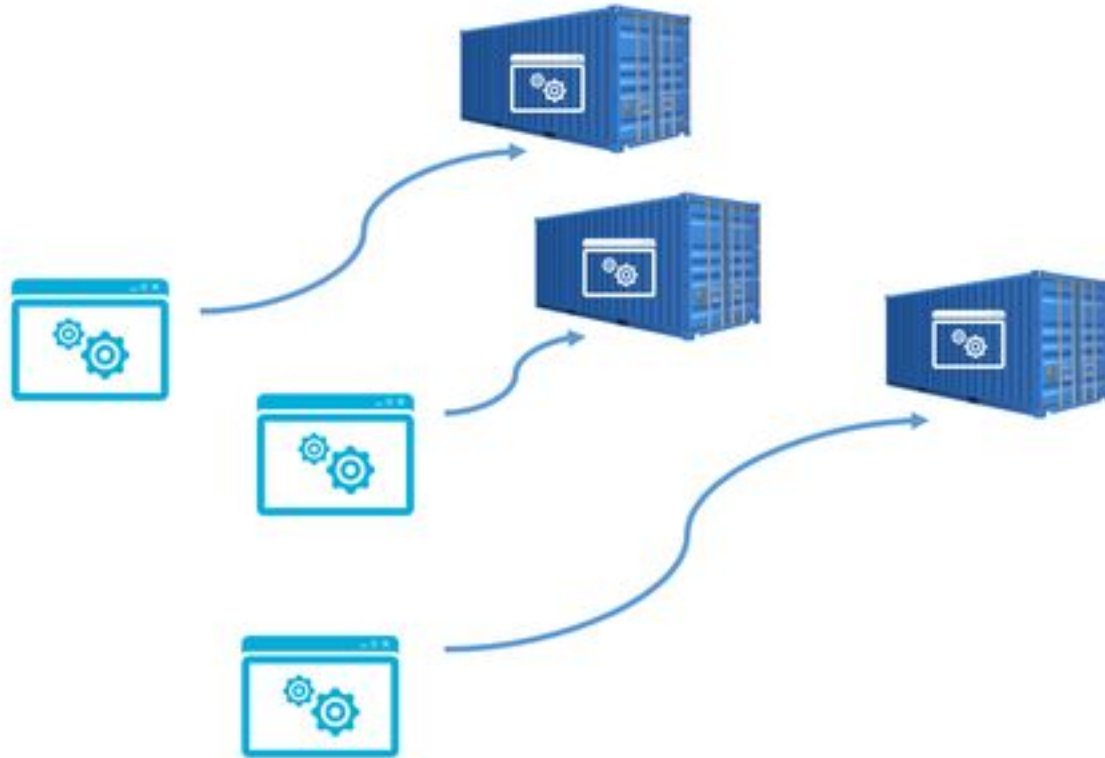


**JAVASCRIPT BOTH ON FRONTEND AND  
BACKEND!?**





## Containerized Applications



**LAMP is so yesterday!**

**...**

**MEAN is so tomorrow :(**

# LAMP

Good for:

APIs



Simple websites



e-Commerce



# MEAN

Good for:

Tech-heavy start-ups



GUI-focused apps



Teams who know  
only Javascript



# API

...

API tabanlı Web Uygulamaları  
SOAP, RESTful

**MY API WOULD**

**STAY UP**

# SOAP

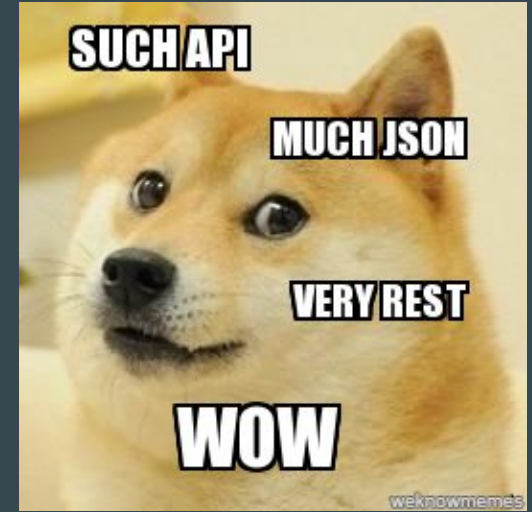


Eski ve XML Kullanır  
Enterprise Seviyesi  
Windows, IIS, .NET

# RESTful

...

Yeni ve JSON Kullanır  
Open Source Teknolojiler Kullanır  
PHP, Java, Javascript (Node, Angular..)





## Photo Resources

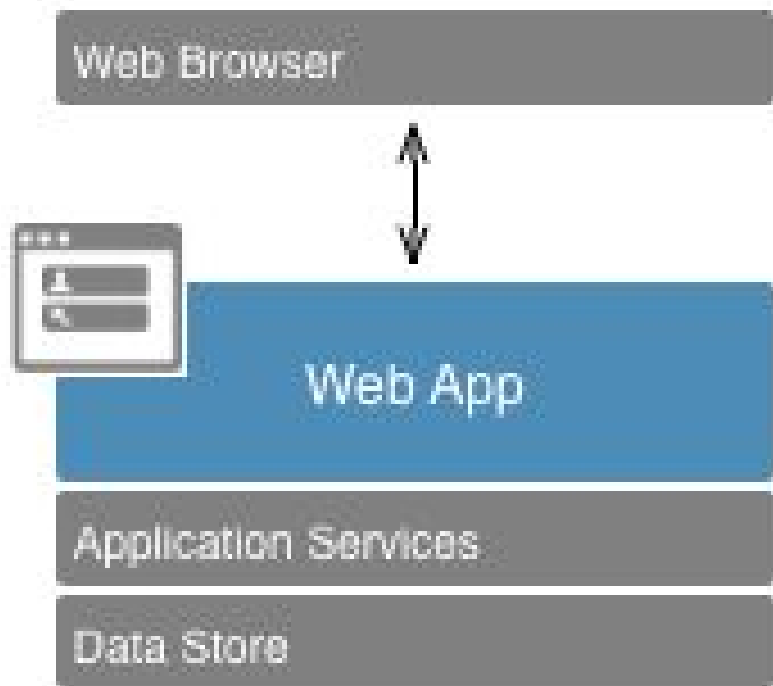
- GET photos
- GET photos/search
- GET photos/:id
- GET photos/:id/comments
- GET photos/:id/votes
- PUT photos/:id
- POST photos
- POST photos/upload
- POST photos/:id/vote
- DELETE photos/:id/vote
- POST photos/:id/tags
- POST photos/:id/comments
- POST photos/:id/report
- DELETE photos/:id
- DELETE photos/:id/tags

## Upload Method

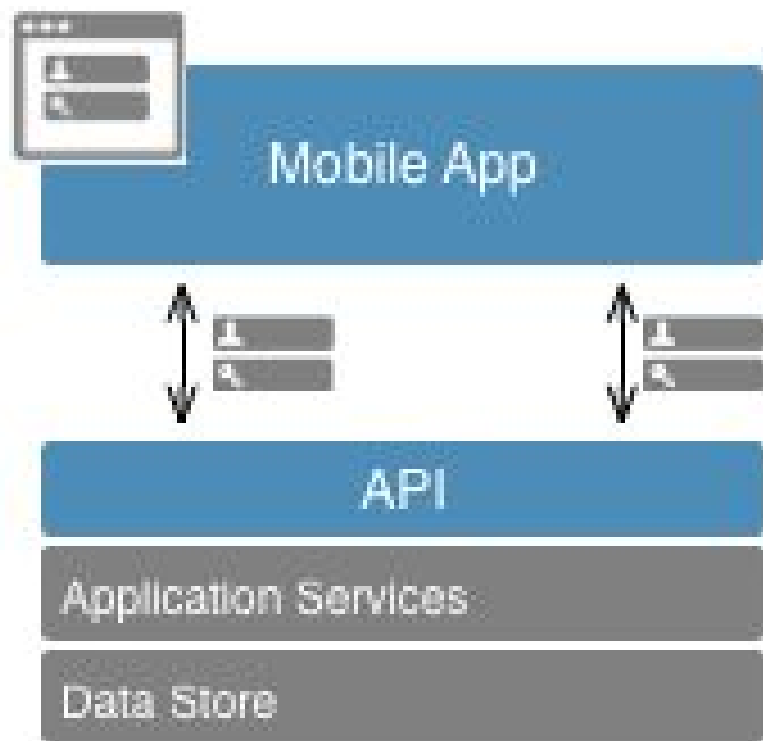
- POST upload



[github.com/500px/api-documentation](https://github.com/500px/api-documentation)



web app authentication points



mobile app authentication points