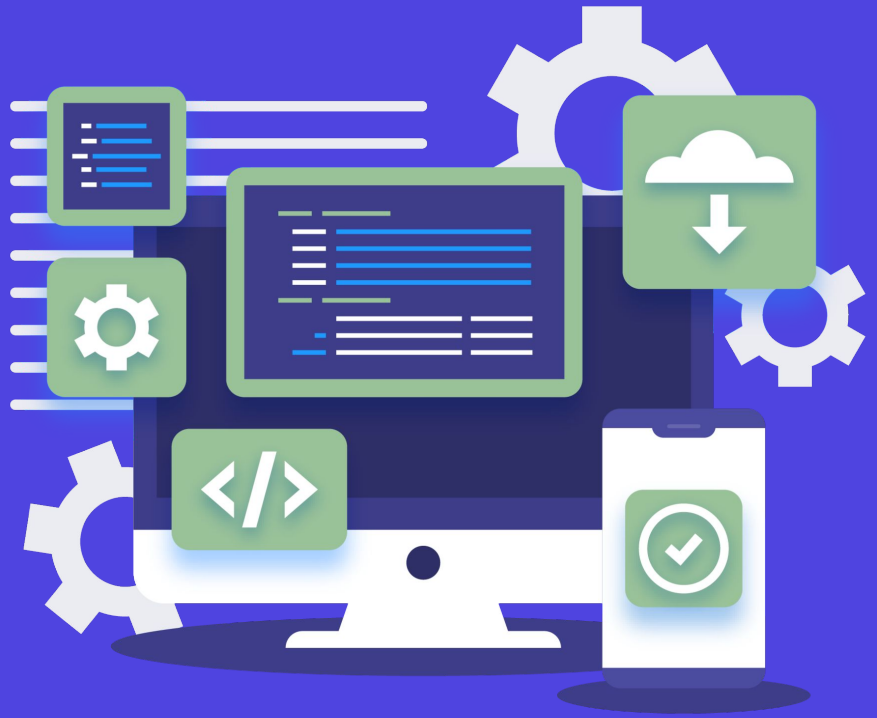
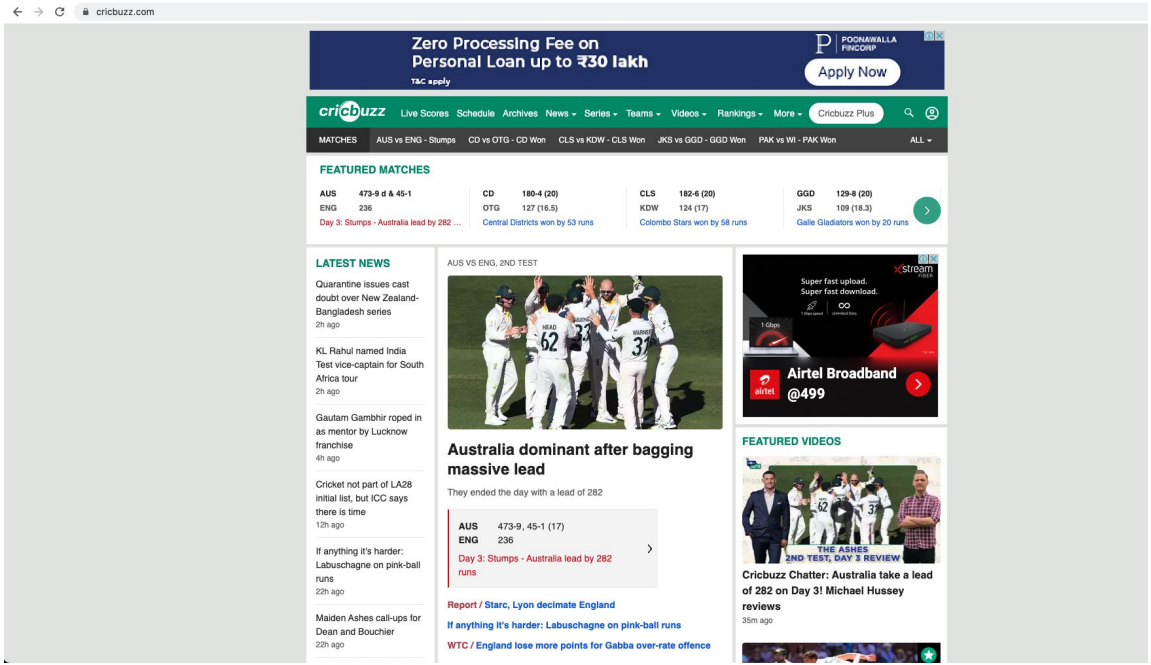
Client-Server Architecture

Relevel
by Unacademy



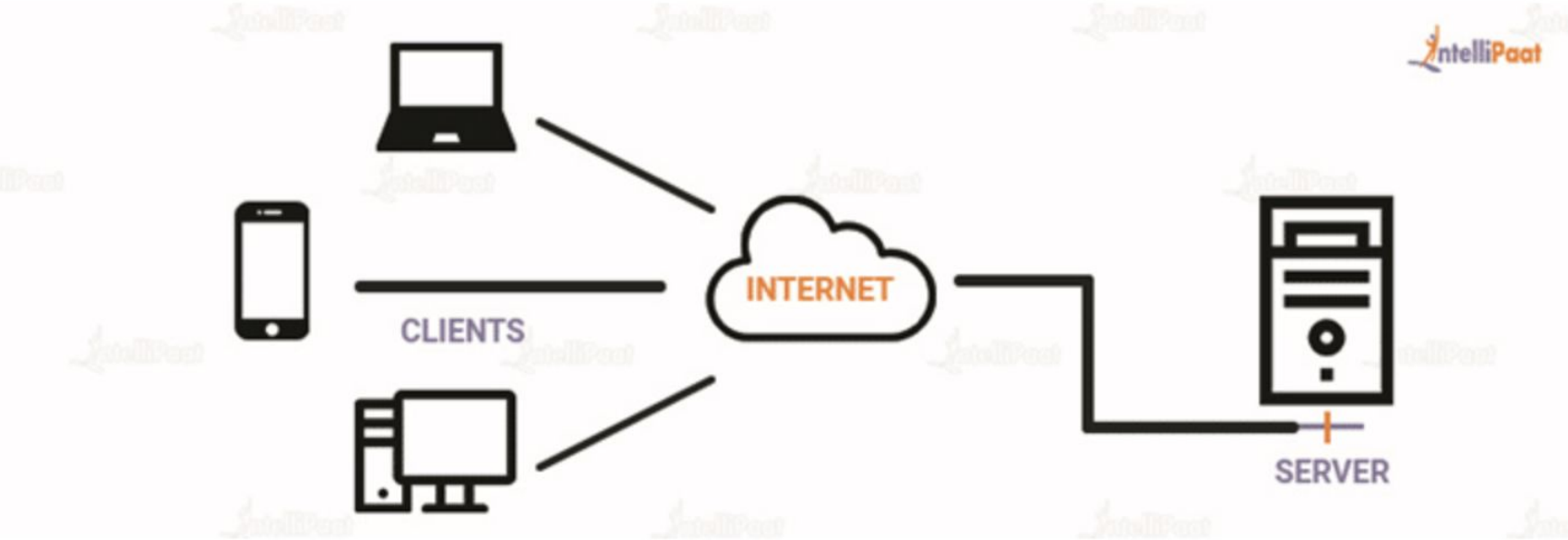
Ever wondered How you are able to view live score on internet ?



Backbone of all the interactions on internet is a simple architecture!

CLIENT-SERVER Architecture

Imagine Client as your interface and Server where the actual information resides



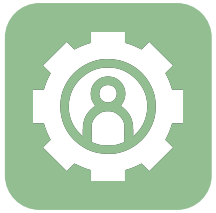
Client

Client

1. Requests Information
2. Depends upon server
3. Holds no additional resources

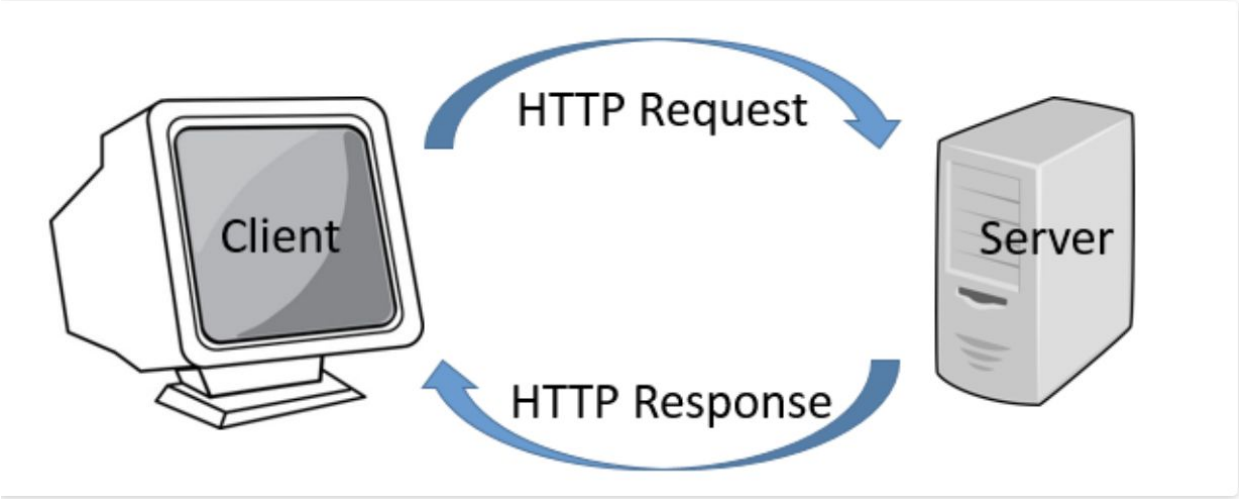
Server

1. Responsible for Hosting and managing resources which compute results for client
2. Abstracts out the implementation
3. Responds to whatever client asks for



How does the communication between Client and Server actually hap

HTTP to the rescue !!!!



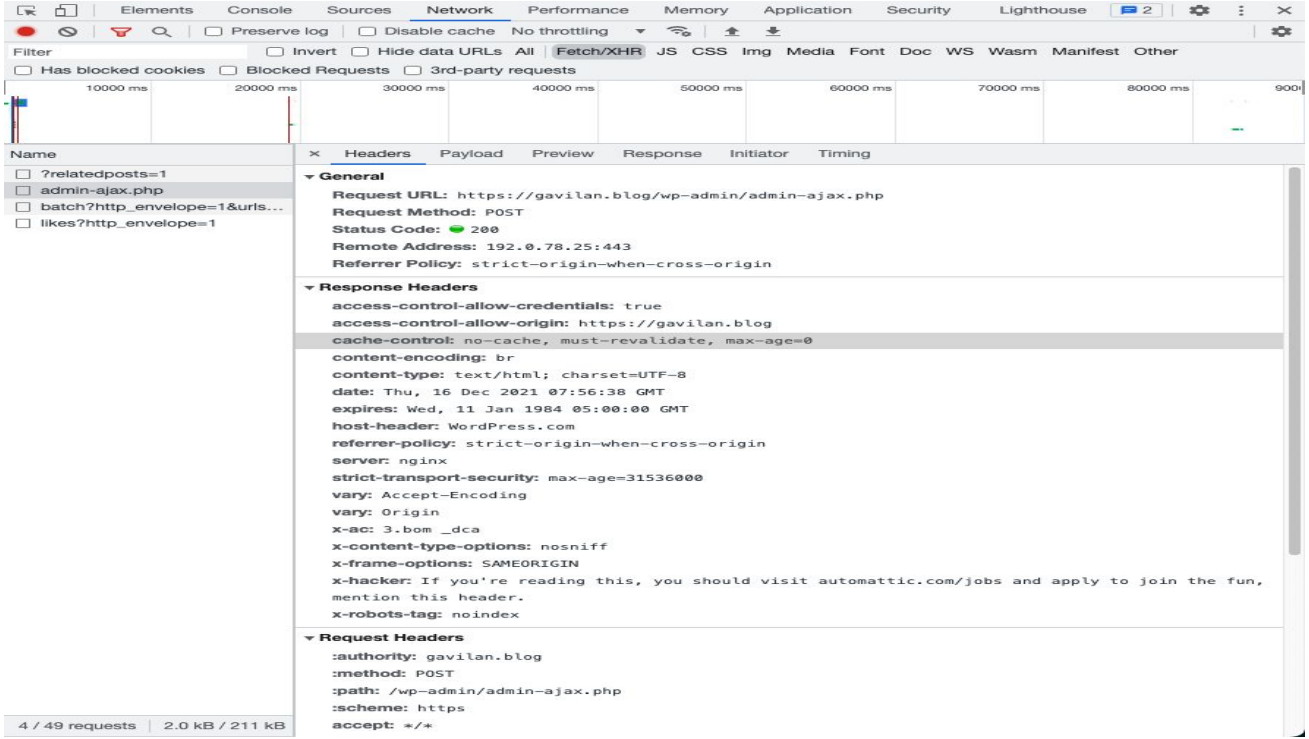
Types Of HTTP Requests

1. GET
2. POST
3. PUT
4. DELETE
5. HEAD
6. TRACE
7. OPTIONS
8. PATCH

Sample HTTP Request

GET /test HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
Host: www.tutorialspoint.com
Accept-Language: en-us
Accept-Encoding: gzip, deflate
Connection: Keep-Alive

HTTP Response



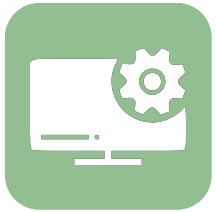
HTTP Response codes

1. 100's
2. 200's
3. 300's
4. 400's
5. 500's

GET VS POST METHOD

Discuss

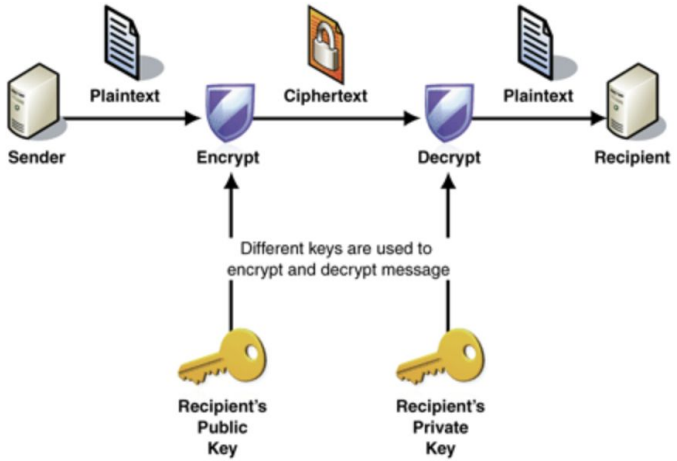
1. Reloading
2. Bookmarking
3. Caching
4. Security
5. Size



Is HTTP Secure ?

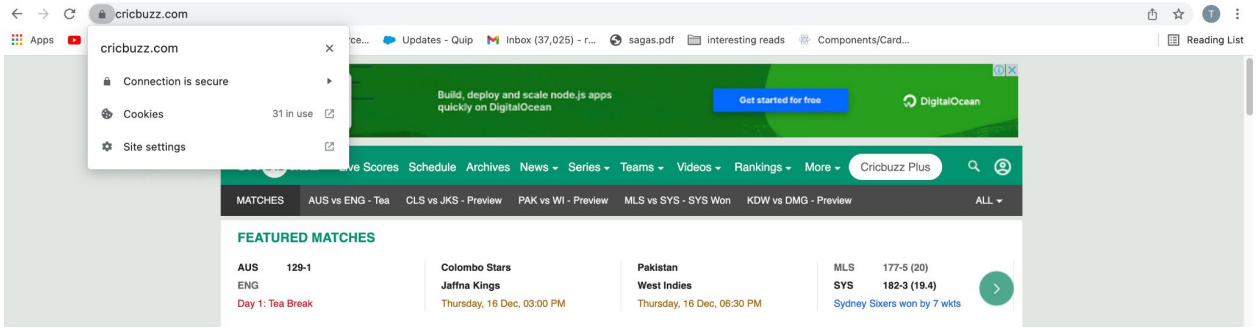
Intro to HTTPS (Hypertext Transfer Protocol Secure)

Encryption at work!!!



Example of asymmetric encryption system

Is your current web page Secure ?



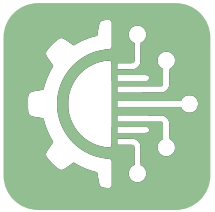
REST (Representational state transfer)

1. Client-Server architecture
2. Cacheability
3. Layered-System
4. Stateless
5. Uniform Interface

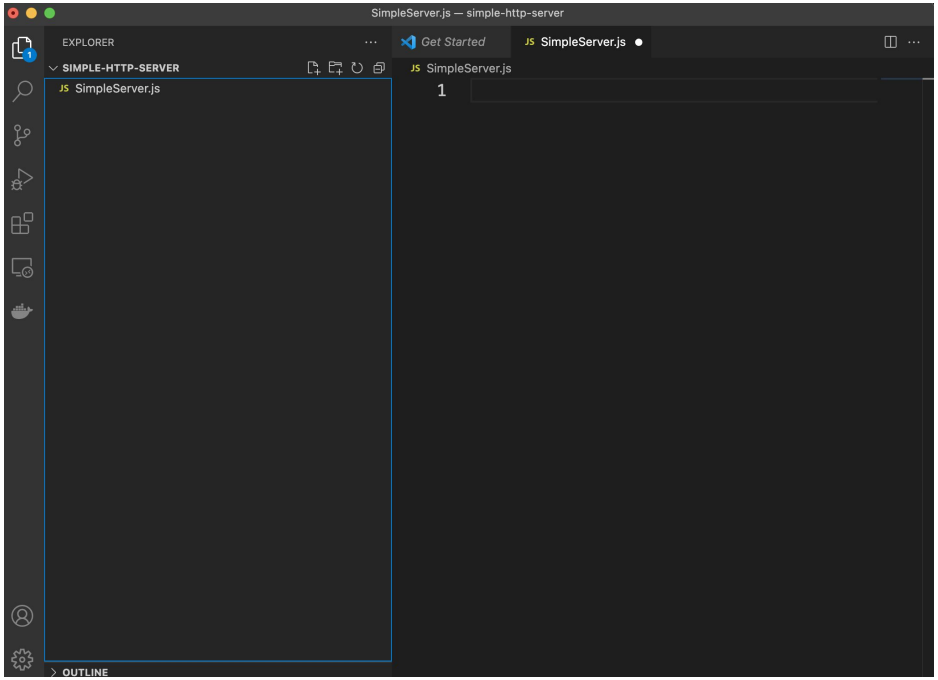
Lets Build our own HTTP Server Now!!!

Pre-Req

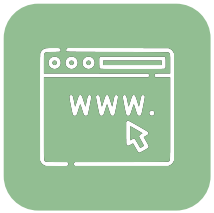
- Code editor
- Git (Optional)
- Node js installed

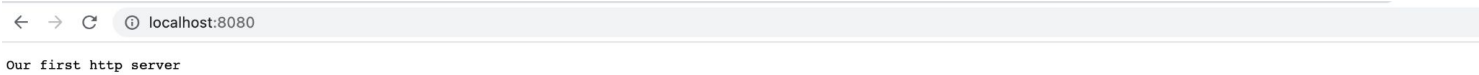


Set up Root directory



Create HTTP Server



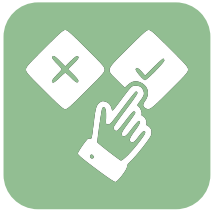


Create HTTP Server with json response0

Create HTTP Server with CSV response

details

name	rollNumber	school
Tushar raina	34	Thapar



MCQ’S

Homework!

1. Let us change the port to 8448
2. Let us return error 400 error code

The End!!!