

Pandas library-

① To create a dataframe.

↓
full representation of the data in
form rows and columns.

② Series - (Dataframe single column).

CSV File → comma separated values in text format separated
by comma. $na_values = \underline{null}$, \underline{None}

pd.read_csv(filepath.csv, sep: "|", header=None,
na_values = ["null"], skiprows=[0, 1, 2]).

pd.read_excel (, sheet_name =

① JSON file → Javascript Object Notation (~~June, 2024~~).
(key-value pair) or (in the form dictionary).

Generally, web-services are designed to give response in two ways.

- ① Rest Api →
- ② xml web services - (SOAP) web services). (Response was quite slow).

HTTP protocol - (easily consumed by my application).

Javascript - (very popular)
ML → TensorFlow JS
Pandas JS
(Interoperability) → Spring boot
Django
Flask framework

Application

JavaScript → Python → Java → GSP. (very technical)

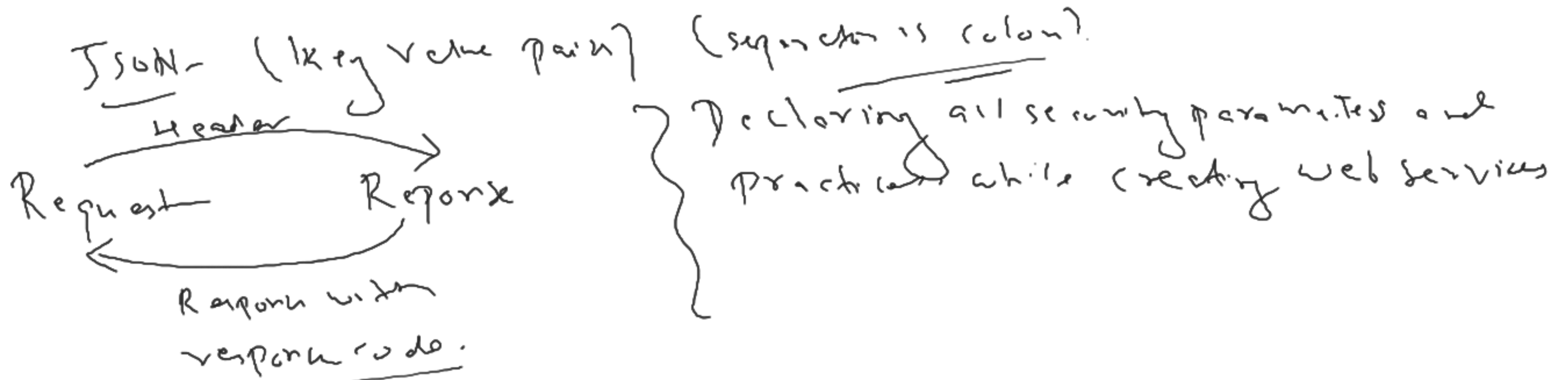
JSON - JavaScript Object Notation.

{
 "name": "Niraj",
 "Age": "20",
 "Organization": "Bridgelabz",
 "College": "SUA"
}

Rest API (Current technology in market).
X1000

① Protobuf (latest technology)
Protocol buffers

gRPC
Google Remote Procedure Calls.



200 - Success ✓
400 - failure ✓
500 - Internal Server Error ✓
300 - Forbidden.

404 - Page Not Found.

pd.read_json(filepath/web site_url).

VP1
Alpha, Beta, Snapshot → JSON Snapshot → review

VP2
Alpha → Testing → Rat bundle

Experimental → Policies

Teams → Scp

Data Serialization and De-Serialization

↓
converting a file
to bytes.

↓
converting bytes to a readable
format.

Sender. (Serialization Deserialization).

CSV. (Networking).

→ cables, wireless

bytes

priority/
urgent

The larger the size of the data, more time to move.

(compression) → raw -> compressed
raw - file -> compressed →

compression
technique

Parquet
Avro
ORC
h5

~~2GB~~

2GB \rightarrow 200MB. (network congestion).

decompress

Res & App - JS & response - (compression technique) \rightarrow

