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Web Architecture

Client

```
    Machine which is having the browser.
    The user who is using the browser for browsing the website e.g
        desktop
        mobile
```

Browser

Component

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```
    Query string
    Used to pass your user data
    It always starts with ?
    e.g
    ?username=user&address=ngp
```

componentes

```
    network
        it is responsible for sending the request and reciving the response
    layout engine
        it is responsible for converting the html and css to JS objects
    javasript engine
        it is resposible for executing the JS code
    user interface
        display output to the user
    web storgae
        is is aslo know as data store
        e.g history , session , cookies
```

server

```
    machine which serves a request
    server is not a hardware rather server is a software
    types
    web server
    server which serves the web (https or http) request
    e.g: apache2, IIS, express
    database server
    server which persists the data
    e.g: RDBMS: MYSQL, Oracle
    NoSQL: MongoDB, Firebase
```

stack

• web stack - web server - database - language - platform

```
e.g : LAMP : Linux + Apache + MySQL + PHP/python/perl

MEAN : MongoBD/Mysql + Express + Angular + Nodejs

MERN
```

creates HTTP response

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```
    object created to return the content when request
    contains
    header: collection of key-value pair
    body: content
```

status code

- used to represent the status of server execution
- types

```
- 1xx
   - for debugging or informational messages
   e.g: 100: continue, 101: switcing protocol
- 2xx
   - success
   e.g: 200 OK
         201: created
         202: Accepeted
-3xx
    redirection
   e.g 300: multiple choice
        301: moved permanently
-4xx
    client error
    e.g: 400: bad request
          401: unauthorized
          402: payment required
          403: forbidden
          404: Not Found
−5xx
    server side error
    e.g : 500: internal server error
            501: not implemented
            502: bad gatway
```