# Internet &
# Web Development

# Agenda

- What is internet?
- How internet works?
- What happens when you search a webpage?
- What is a webpage?
- Idea of web development - Frontend vs Backend development
- Concept of programming/coding
- Development tools

Google
Google Search
I'm Feeling Lucky
Google offered in: हिन्दी বাংলা తెలుగు मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം ਪੰਜਾਬੀ

KBA

9:00 AM - 5:30 PM IST
Saturday and Sunday - CLOSED

+91 623 8210 114
kba@duk.ac.in

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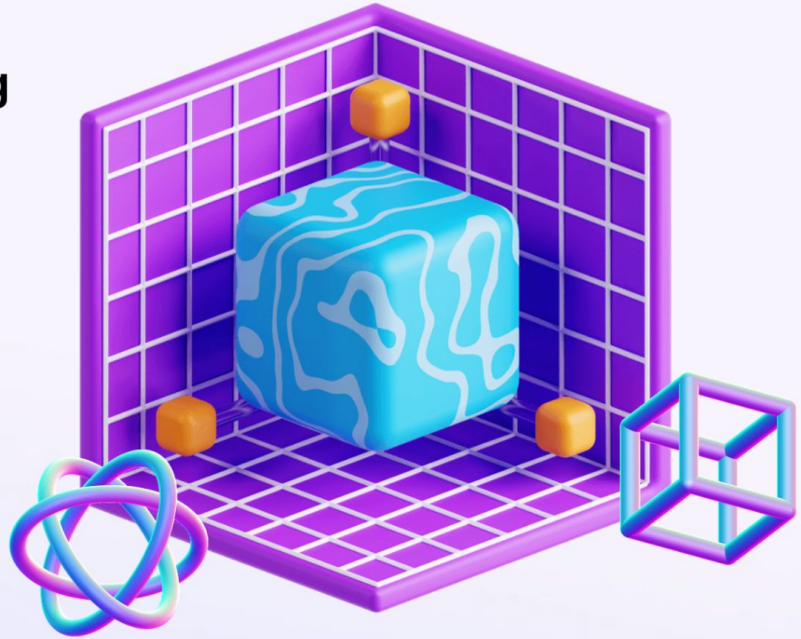
BEGIN WITH

# India's First Blockchain Training and Research Institute

Create Tomorrow's Decentralized Solutions Through Our Blockchain Courses

GET STARTED

Video Demo

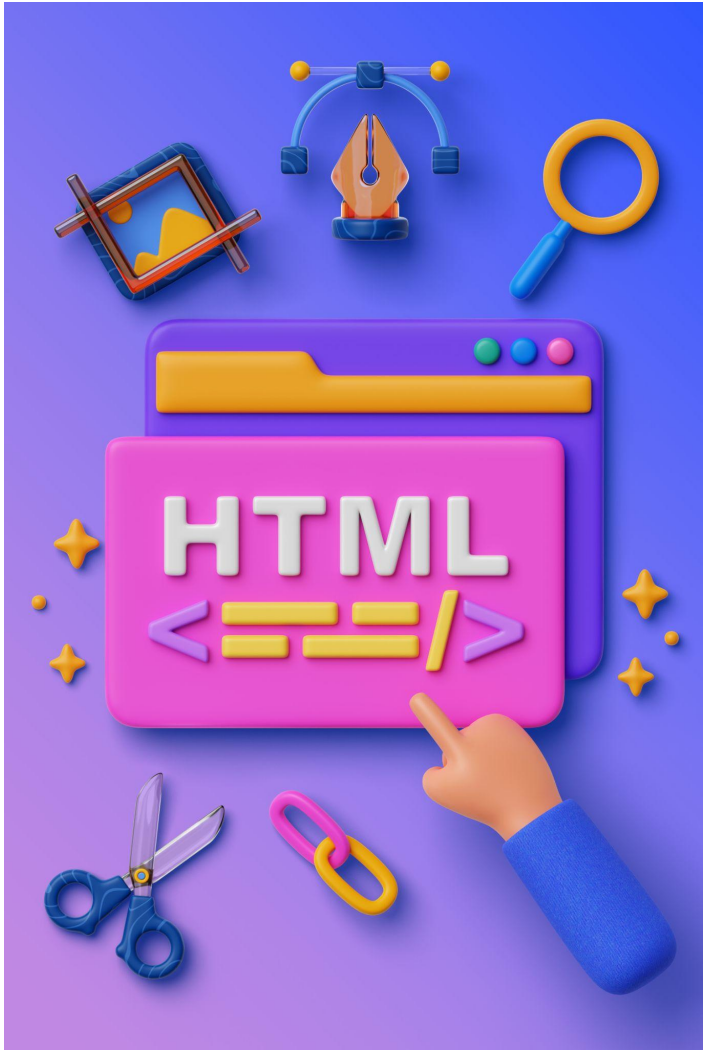


# BIRTH OF INTERNET

"The Team Behind ARPANET""

# ISP

www.

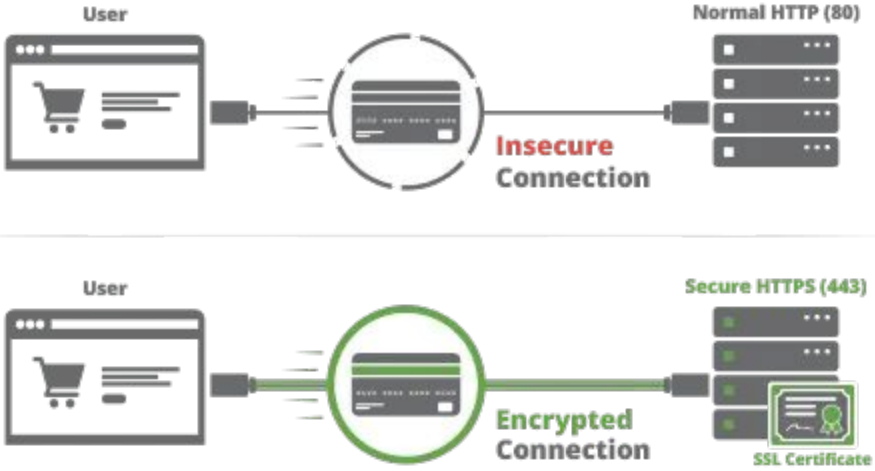

HTML

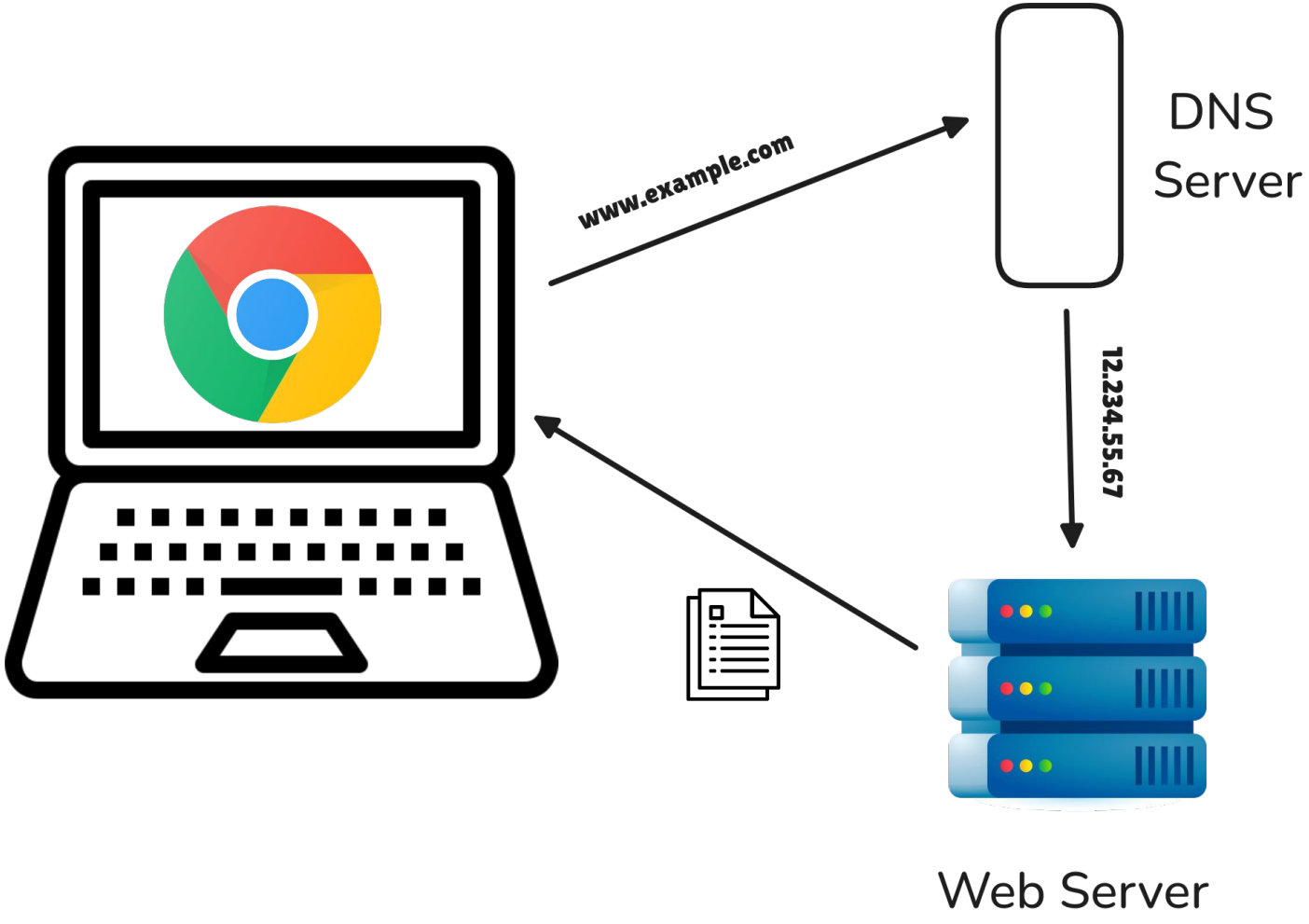
# Website

https://kba.ai/

https://www.example.com
Protocol (scheme)
Sub-domain
Domain name
Top level domain (TLD)

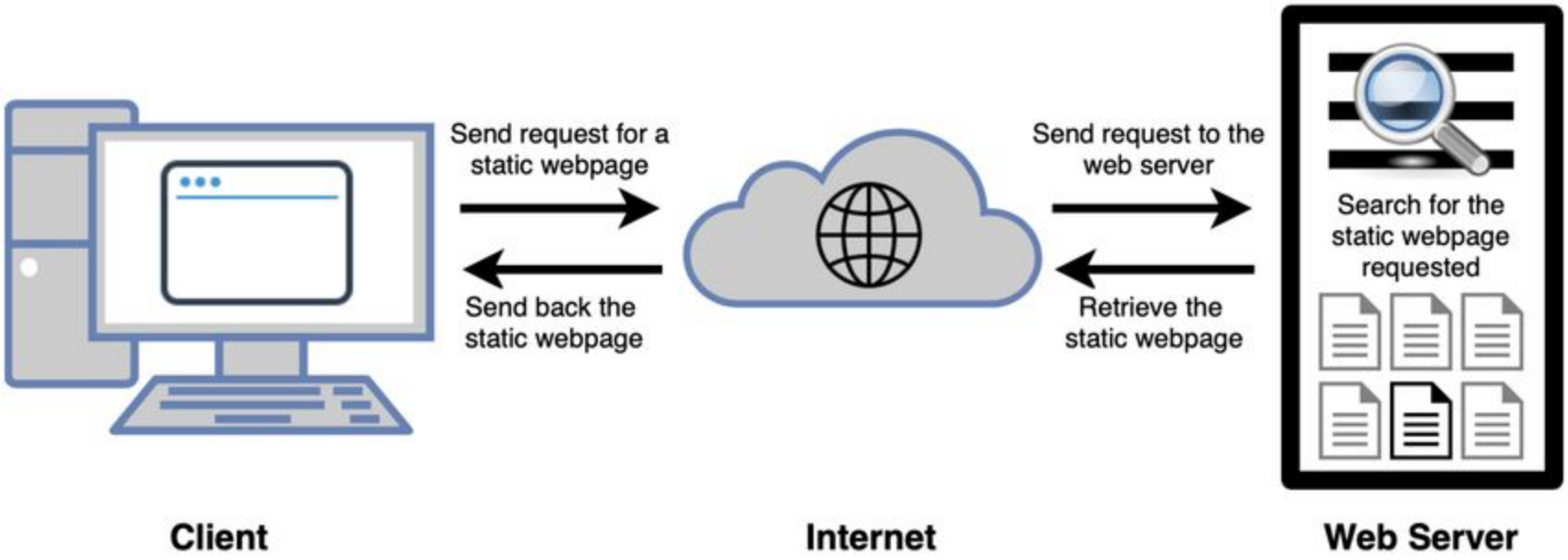
# HTTP vs HTTPS




www.example.com
DNS
Server
12.234.55.67
Web Server

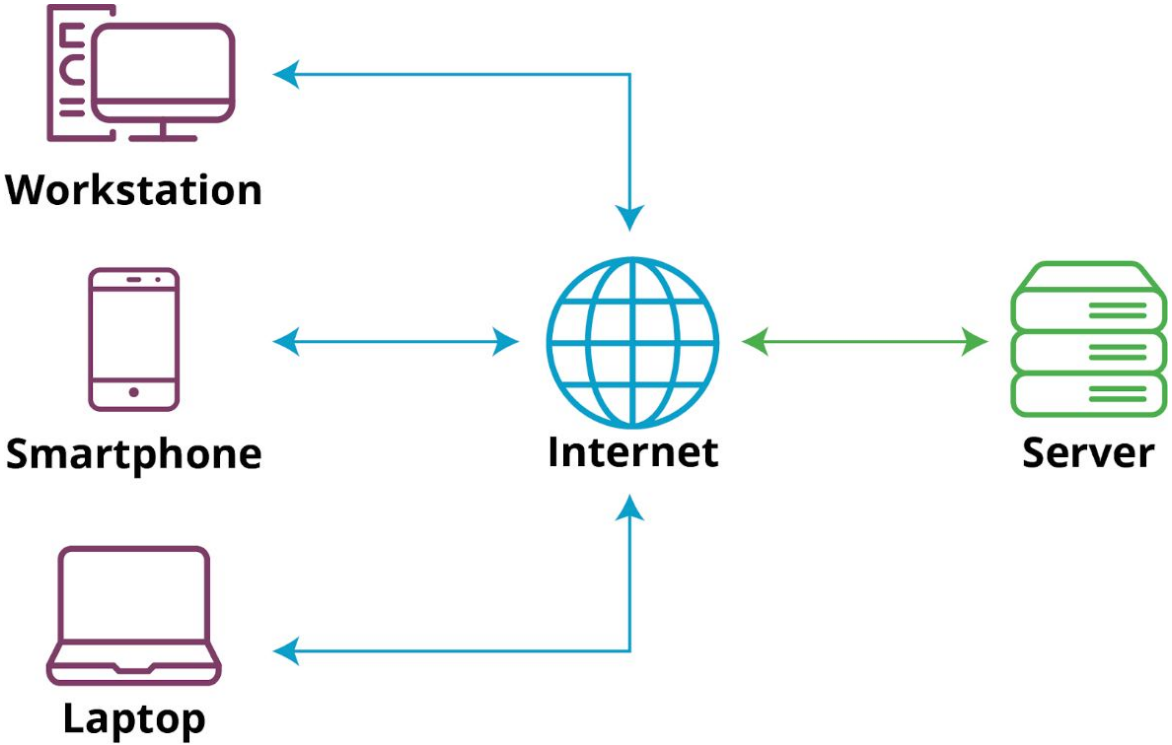
# localhost

127.0.0.1:8080


Send request for a static webpage
Send back the static webpage
Send request to the web server
Retrieve the static webpage
Search for the static webpage requested
Client
Internet
Web Server

# Webpages

- https://users.ece.utexas.edu/~holmes/Teaching/EE302/Slides/UnitOne/tsld019.htm
- https://curious.co/
- https://fpp.net/
- https://mubasic-test.webflow.io/
- https://spotify.design/

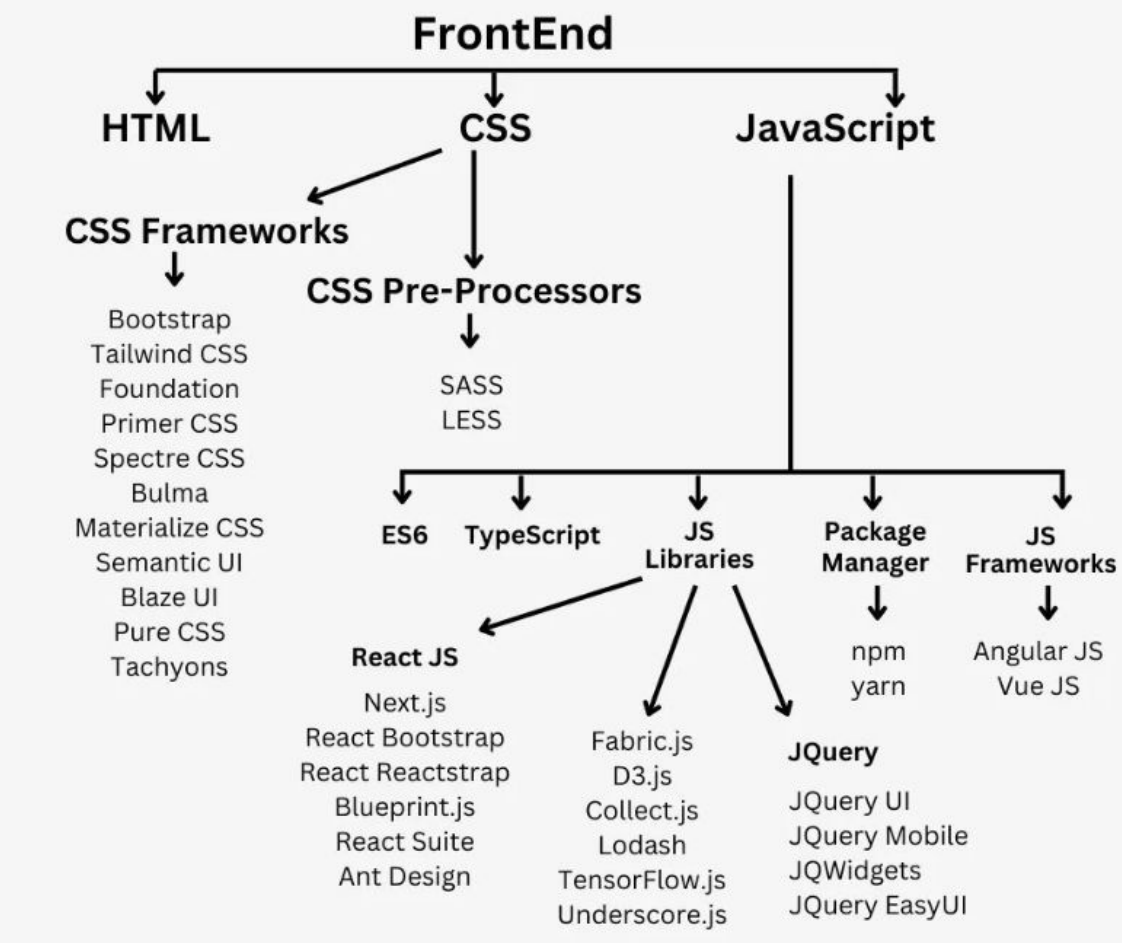

Workstation
Smartphone
Laptop
Internet
Server

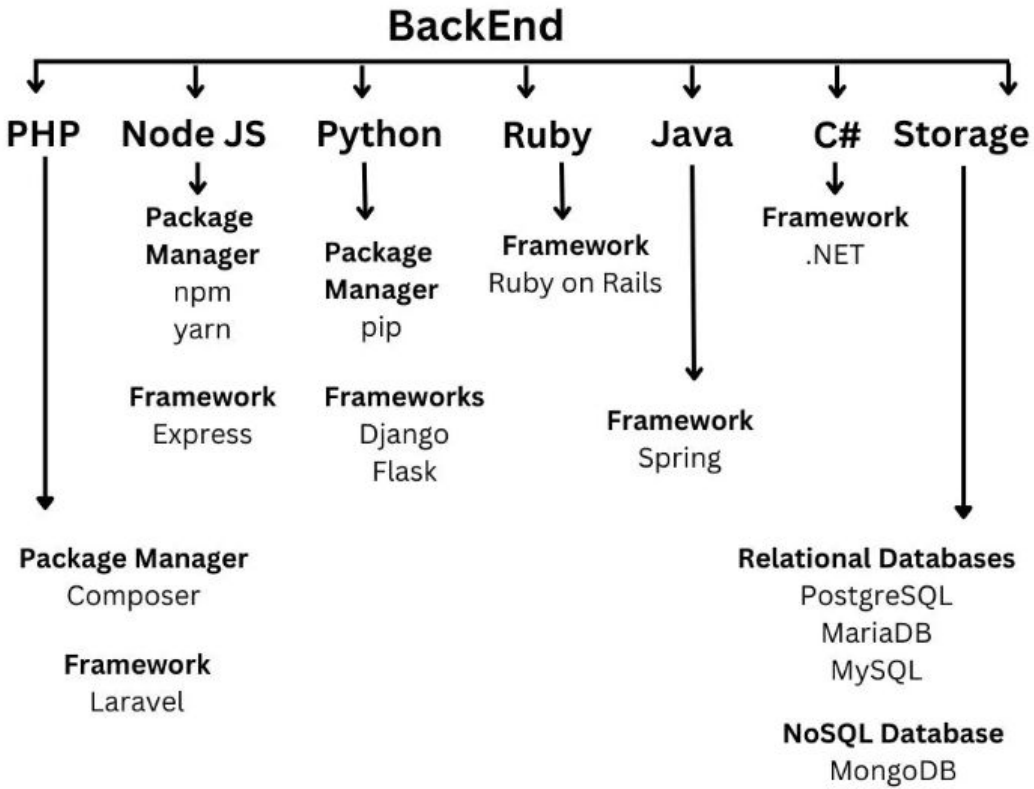
# DIFFERENT TYPES OF WEB DEVELOPMENT

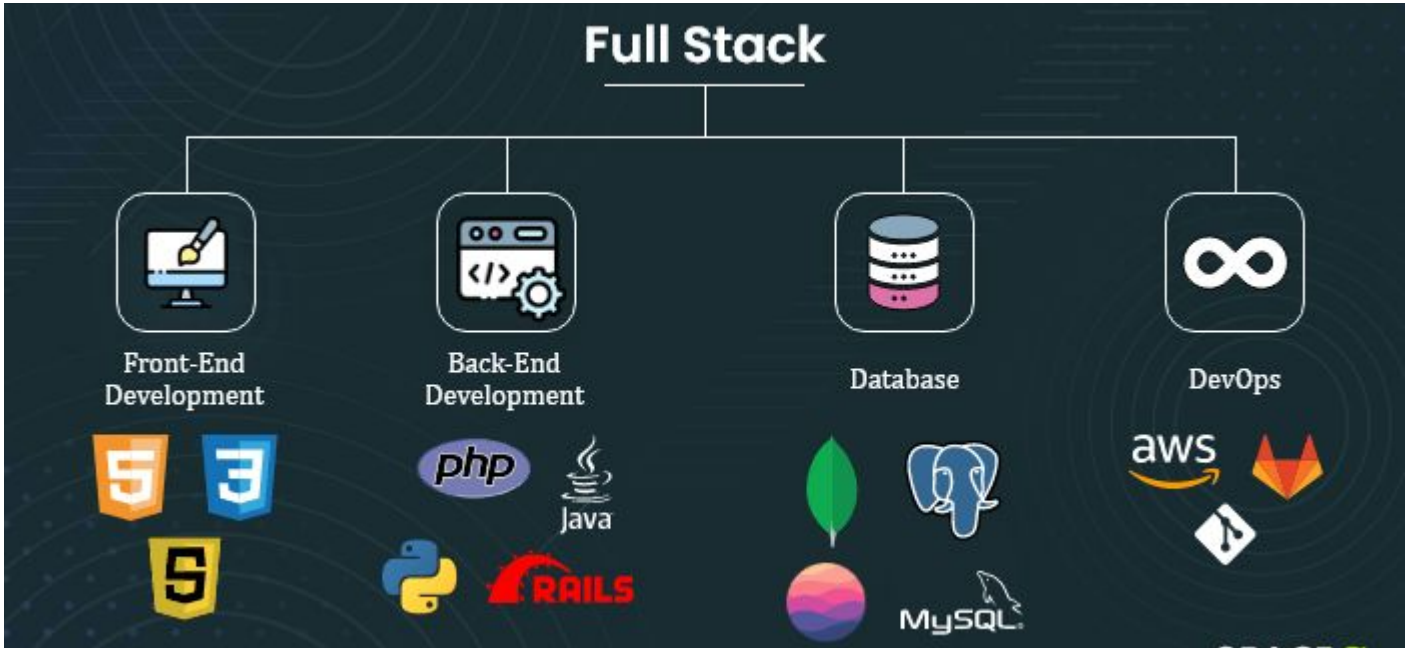
Front End Development

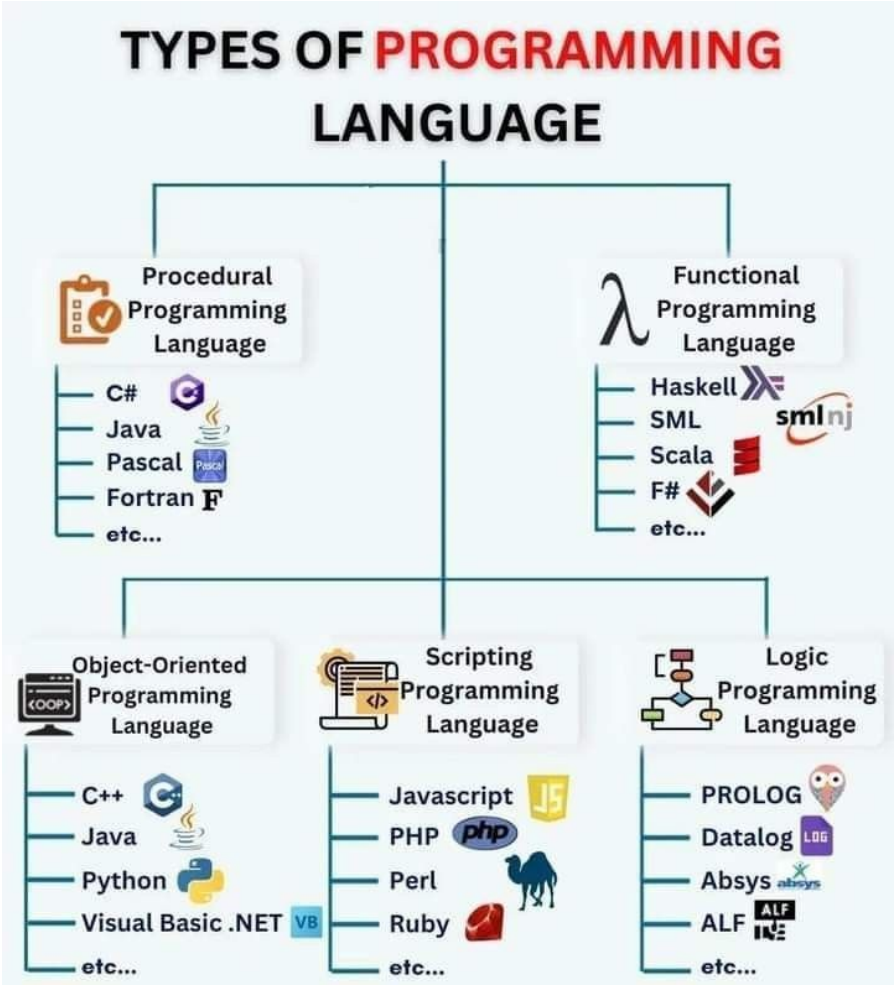
Back End Development

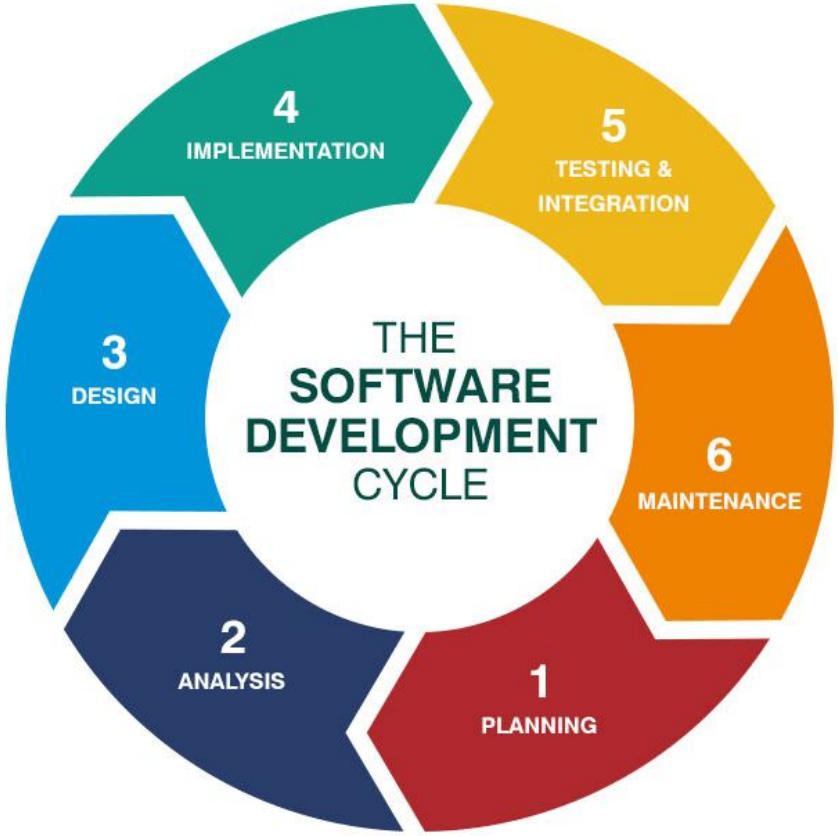
Full Stack Development


FrontEnd
HTML
CSS
JavaScript
CSS Frameworks
CSS Pre-Processors
Bootstrap
Tailwind CSS
Foundation
Primer CSS
Spectre CSS
Bulma
Materialize CSS
Semantic UI
Blaze UI
Pure CSS
Tachyons
SASS
LESS
ES6
TypeScript
JS Libraries
Package Manager
JS Frameworks
npm
yarn
Angular JS
Vue JS
React JS
Next.js
React Bootstrap
React Reactstrap
Blueprint.js
React Suite
Ant Design
Fabric.js
D3.js
Collect.js
Lodash
TensorFlow.js
Underscore.js
JQuery
JQuery UI
JQuery Mobile
JQWidgets
JQuery EasyUI


BackEnd
PHP
Node JS
Python
Ruby
Java
C#
Storage
Package Manager
npm
yarn
Framework
Express
Package Manager
pip
Frameworks
Django
Flask
Framework
Ruby on Rails
Framework
Spring
Framework
.NET
Package Manager
Composer
Framework
Laravel
Relational Databases
PostgreSQL
MariaDB
MySQL
NoSQL Database
MongoDB


Full Stack
Front-End Development
Back-End Development
Database
DevOps
php
Java
RAILS
MySQL
aws


TYPES OF PROGRAMMING LANGUAGE
Procedural Programming Language
C#
Java
Pascal
Fortran
etc...
Functional Programming Language
Haskell
SML
smlnj
Scala
F#
etc...
Object-Oriented Programming Language
C++
Java
Python
Visual Basic .NET
etc...
Scripting Programming Language
Javascript
PHP
Perl
Ruby
etc...
Logic Programming Language
PROLOG
Datalog
Absys
ALF
etc...


4
IMPLEMENTATION
5
TESTING &
INTEGRATION
3
DESIGN
THE
SOFTWARE
DEVELOPMENT
CYCLE
6
MAINTENANCE
2
ANALYSIS
1
PLANNING

# Development Tools

- Programming languages
- Code Editors
- Databases
- Frameworks
- Version Control
- Containers

## Project Manager

## Programmer

## Software Developer

## Tester

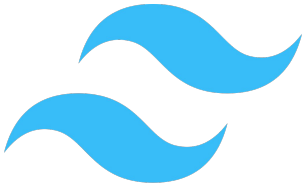
## UX/UI

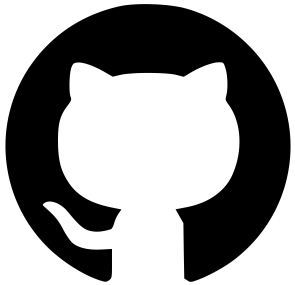
## FrontEnd

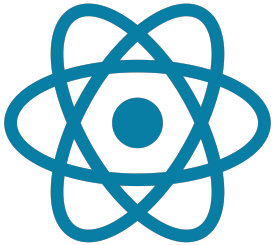
## BackEnd

## App Developer

# Tech we will learn







# References

### Videos

- What is the Internet?

### Articles

- How the Web Works
- What Is Web Development?
- App Development Glossary: 64 Essential Terms
- What is a Programming Language? Definition and Types
- Web Application Development: Process, Tools, & Examples