What is coding?

Coding is a term for computer programming, an activity in which computer programmers to tell a computer what to do.

Programmers use one or more computer programming languages to accomplish this.

For example, programmers working at Google might use C++, Java, JavaScript, or Python.

Video game programmers at Nintendo might use C++, Java, C#, JavaScript, or SQL.

An Integrated Development Environment **(IDE)** is a tool that combines common programming activities into a single application. IDEs can help programmers be more productive by editing source code, building executables, and debugging

Examples of Most Commonly Used IDEs

BlueJ

Slick Edit

GNAT Studio

Eclipse

CODE:: BLOCKS

AWS Cloud 9

NetBeans

PyCharm

CodeLite

Microsoft Visual Studio

www.radixweb.com

Front end and back end are terms used in software engineering to describe the different parts of a website or application:
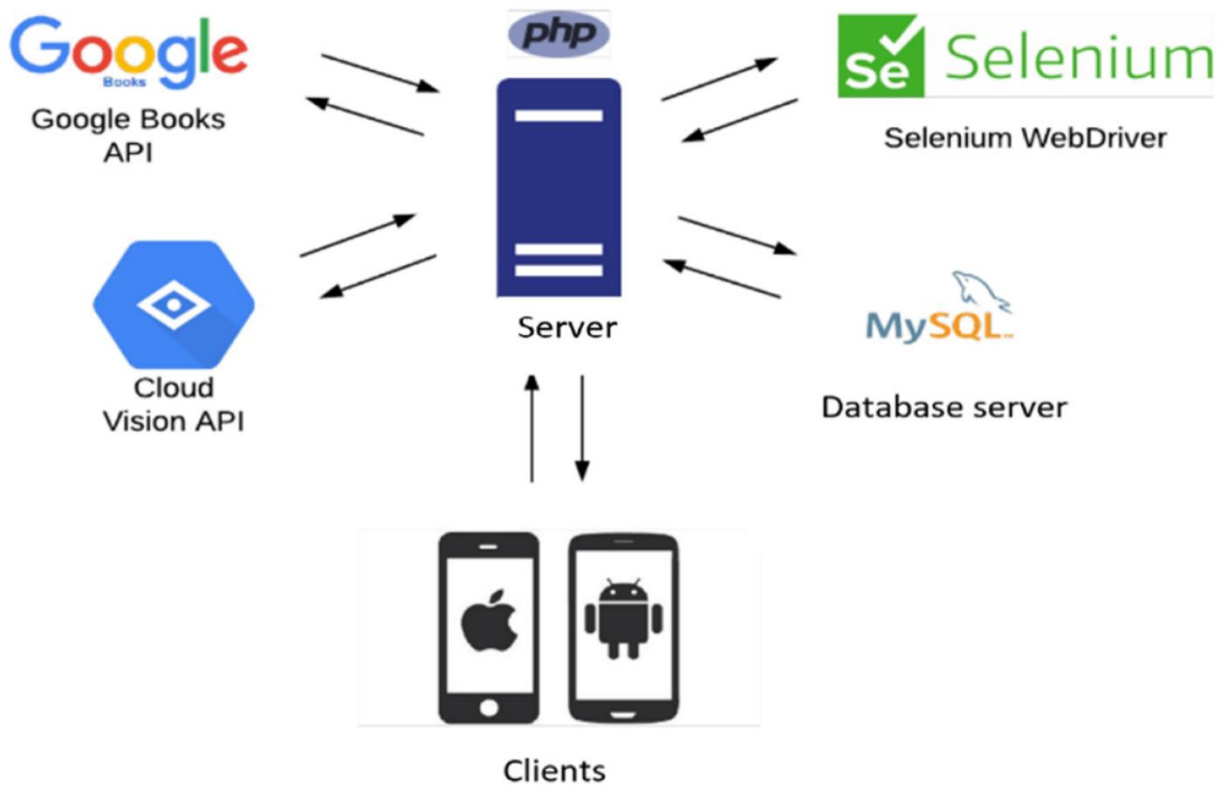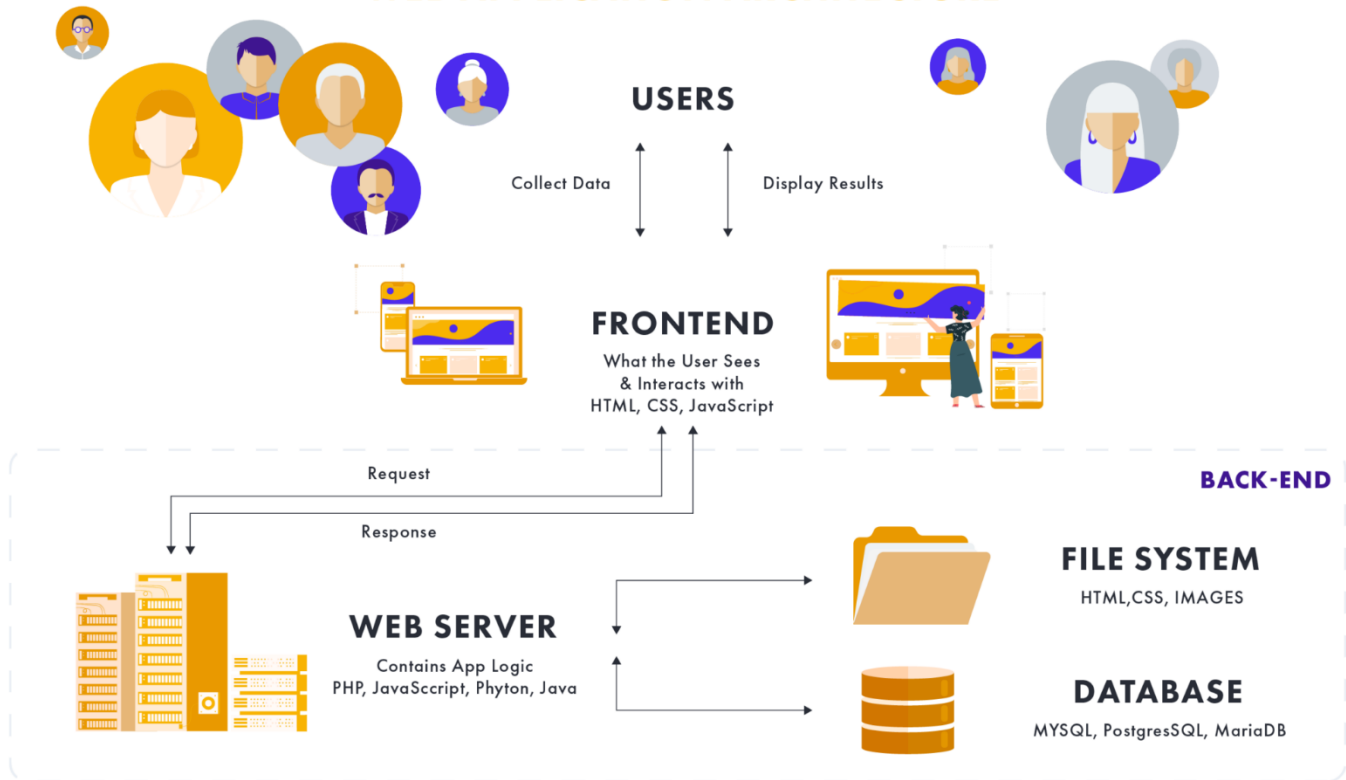
- **Front end**

The part of a website or application that users see and interact with. This includes visual elements like buttons, checkboxes, graphics, and text messages.
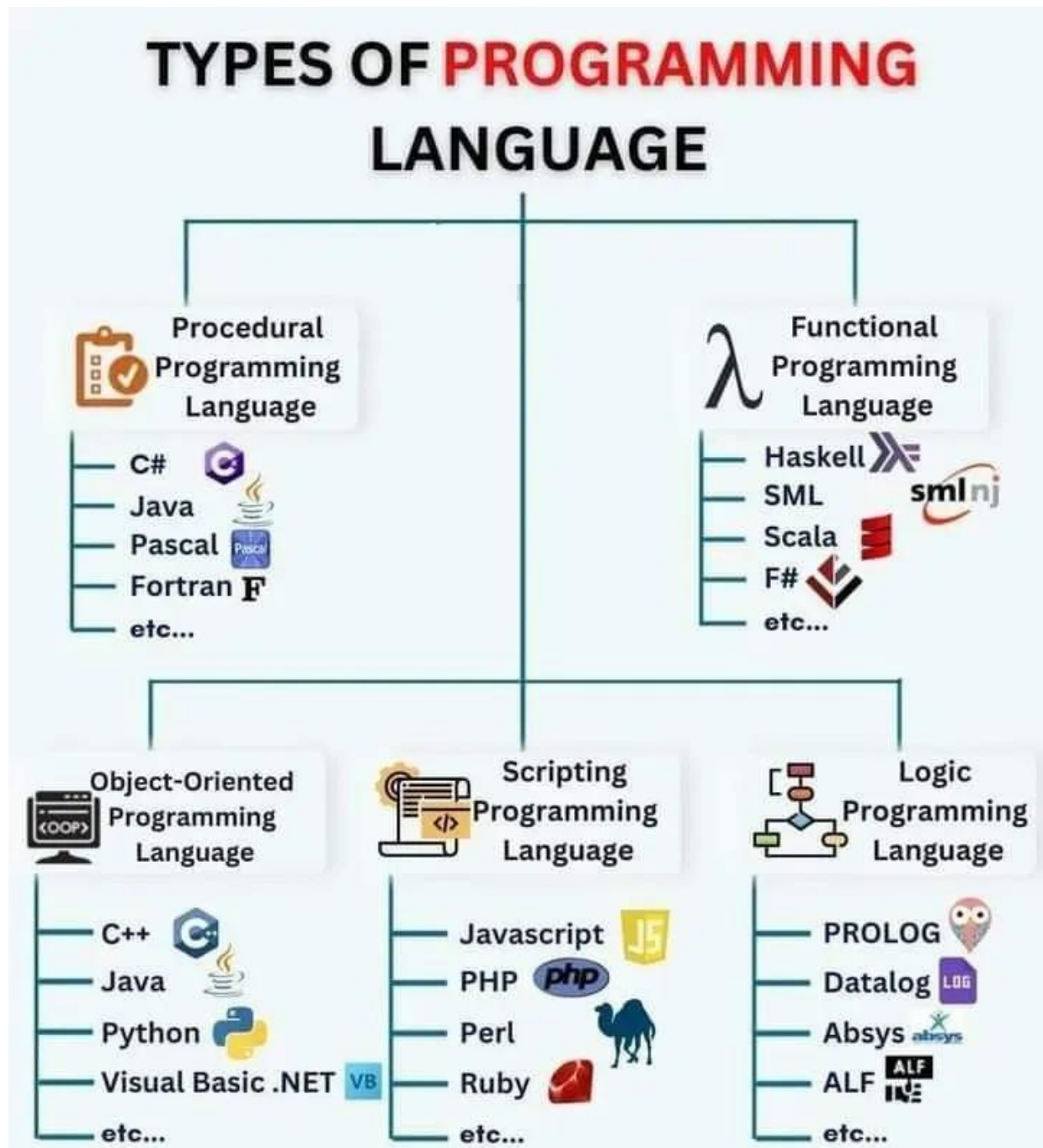
- **Back end**

The part of a website or application that users cannot see. This includes the data and infrastructure that make the application work, such as the server, application, and database.

WEB APPLICATION ARCHITECTURE

USERS

Collect Data ↕ ↕ Display Results

FRONTEND

What the User Sees
& Interacts with
HTML, CSS, JavaScript

Request

Response

BACK-END

WEB SERVER

Contains App Logic
PHP, JavaSccript, Phyton, Java

FILE SYSTEM

HTML,CSS, IMAGES

DATABASE

MYSQL, PostgresSQL, MariaDB

Google Books
API

Cloud
Vision API

php

Server

Selenium

Selenium WebDriver

MySQL

Database server

Clients

A programming language is a set of instructions that tells a computer how to perform tasks.

TYPES OF PROGRAMMING LANGUAGE

Procedural Programming Language
- C#
- Java
- Pascal
- Fortran F
- etc...

Functional Programming Language
- Haskell
- SML
- Scala
- F#
- etc...

Object-Oriented Programming Language
- C++
- Java
- Python
- Visual Basic .NET VB
- etc...

Scripting Programming Language
- Javascript
- PHP
- Perl
- Ruby
- etc...

Logic Programming Language
- PROLOG
- Datalog
- Absys
- ALF
- etc...

Programing Languages & Their Uses

Java

- Android apps
- Desktop apps
- Web apps
- Big data

Python

- Web apps
- Machine learning
- Data science
- Artificial intelligence
- Cyber security

C++

- Game
- Operating system
- Database
- Embedded system

Swift

- Deep Learning
- Ios Apps
- IOT

C#

- Game Development
- System Programming
- OT & Real Time System

Javascript

- Web Dev & Apps
- Server Apps
- Web Servers
- Mobile Appications