Open Source Software Club | AIT , Pune

Introduction To WebApp Architecture

WebApp Architecture Series

Presentation by Team OSS

Types of Softwares

A Broad Classification

Web Application

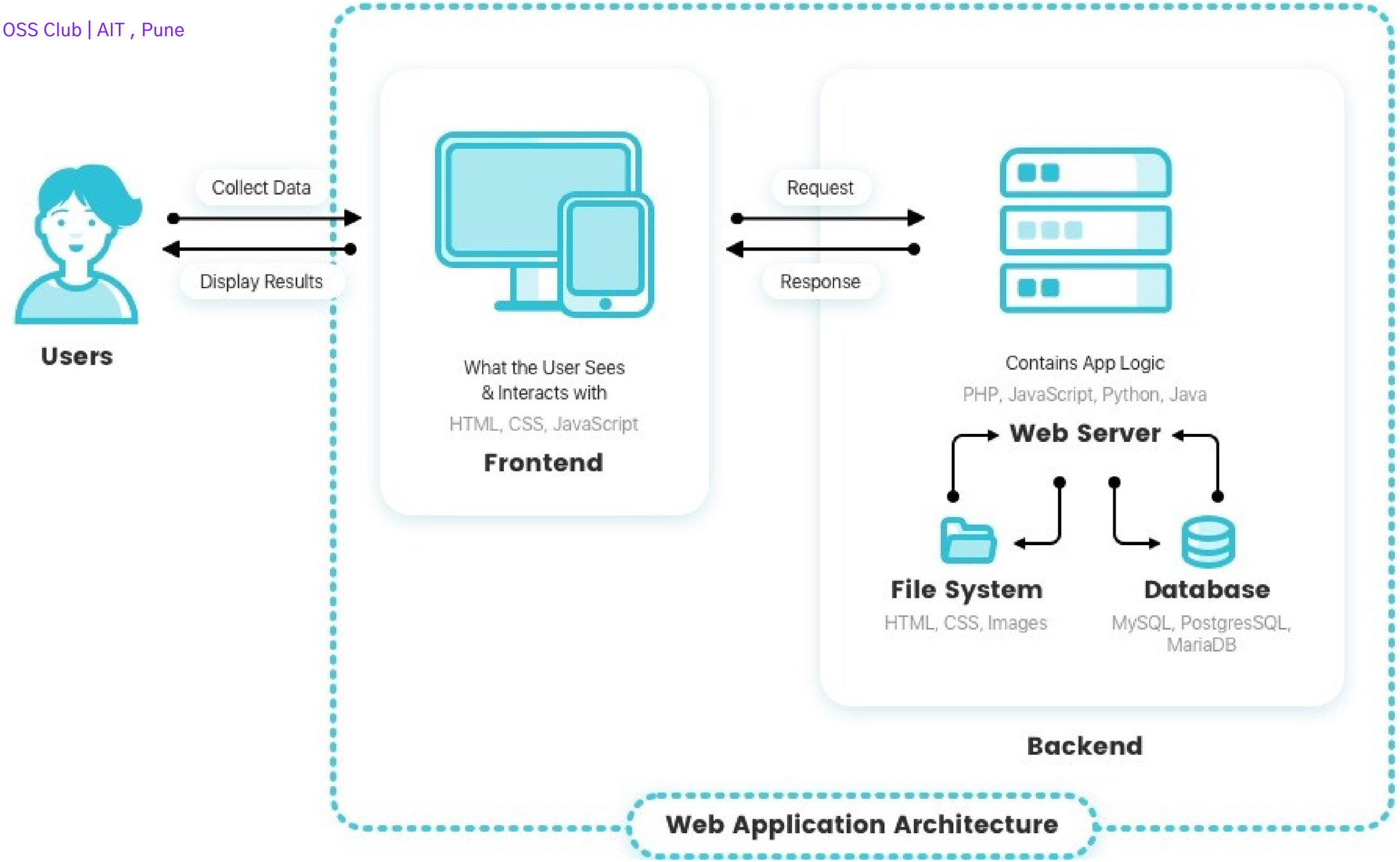
Today most of the services and products of companies are present in the form of web applicatoin

Mobile Application

Android and IOS applications are equally important for companies to expand their userbase.

Desktop Applications

Backbone in making any OS popular


Collect Data
Display Results
Users
What the User Sees
& Interacts with
HTML, CSS, JavaScript
Frontend
Request
Response
Contains App Logic
PHP, JavaScript, Python, Java
Web Server
File System
HTML, CSS, Images
Database
MySQL, PostgresSQL,
MariaDB
Backend
Web Application Architecture

In the Context of Application

Frontend

Backend

Database

Frontend Development

Basics – HTML, CSS & JS

All the frameworks and libraries eventually boil down to the basics which are HTML, CSS and JS in Frontend development.

Frameworks & Libraries

A Software that provides you with some pre-defined template and code to make your development faster.

UI/UX

The user interface is the actual website that you see on your browser, and the experience you get while navigating through that site is known as user experience.

Best Frontend Javascript Framework

Angular

React

Vue JS

Ember JS

Backbone JS

Core of Frontend Development

Backend Development

Data Manipulation

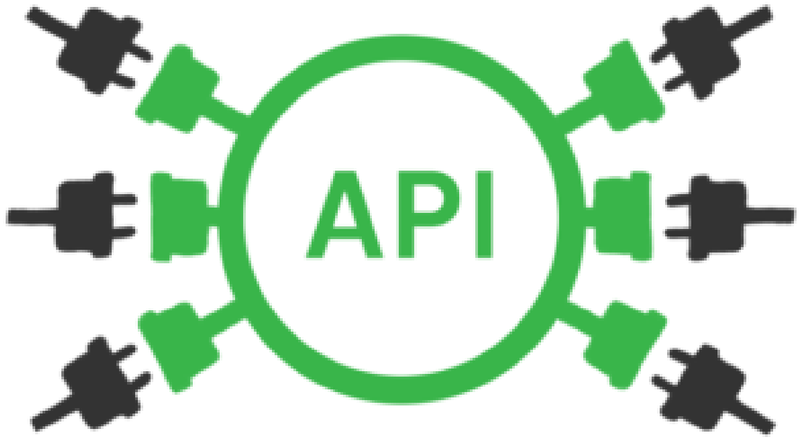
All the incoming and outgoing data are first processed here and then sent to frontend.

Authentication & Security

This is the place where your crucial keys and logic lies if anyone knows the logics and keys they can easily hamper the service.

Database Interaction

All the user data etc. needs to be stored at some safe place, and this is where databases comes in action.



BACK-END DEVELOPMENT

Database

Data storage

Crucial Information related to users, transactions, and other services are stored here.

File system storage vs Database

Why can’t I store it in my disc as I store my other data in my system?

Types od Database

Broadly two types –

1) SQL Databases
2) NoSQL Databases

Version Control System

GitHub

GitLab

Mercurial etc.

A FULL STACK WEB DEVELOPER KIT

FRONT END	BACKEND	DATABASE	VERSION CONTROL	PROJECT MGMT TOOLS
HTML	Ruby on Rails	MySQL	GIT	Basecamp
HTML5	PHP	MongoDB	Grunt	Jira
Java Script	Angular2	CouchDB	Xdebug	Trello
J Query	Node.js	MS SQL	Subversion	Redmine
CSS3	.Net			Teamwork

Thank you!