AIT Open Source Software Club
Event#2021.02

Onward to Glory

Spark

Igniting the fire of development

WHAT'S IN IT FOR YOU

Learning & Interaction with web technology.

- Hands-on experience with all tech in Web domain.
- Get started with Version Control System (Git & GitHub)
- Start with Web fundamentals (HTML / CSS / JS)
- Get to interact with industry experts.
- Compete with your batchmates to examine your skills.
- Get to win goodies & cash prizes.

Sparkles of Spark !

Sparkle 1

Getting Familiar with structure of web apps.

Basic overview of all the tech involved in web dev.

Sparkle 2

Fundamentals of Version Control System.

Learn version control system and basics of Git & GitHub.

Sparkle 3

Hands-on with HTML, CSS and Javascript.

From basics to advanced every concept will be there.

Sparkle 4

Session with experts about their journey

Get to interact with people who have succeeded in this domain.

Sparkle 5

Win cool goodies and heavy cash prizes.

Participates in the mini-events & the FE exclusive Graphica !

Benefits on Students

Future Scopes & other "FAAYDEs"

01 Enhanced engagement

Students can be more active in their learning thanks to quizzes, games, polls, video content.

02 Anytime help available

Anyone can ask doubts at any time of the day. OSS Club will always be there for helping you !

03 Fun & engaging events

Sessions & events with cash prizes upto 35k and awesome goodies.

Introduction to Web Technologies !

Akash Saxena

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A BROADER CLASSIFICATION

Types of Softwares

Web Application

Today most of the services and products are present in the form of web app.

Mobile Application

Android & iOS applications are equally important for companies to expand their userbase.

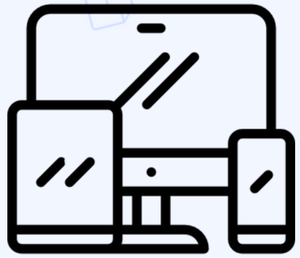
Desktop Application

Backbone in making any OS Popular.

Users

Collect Data

Display Results



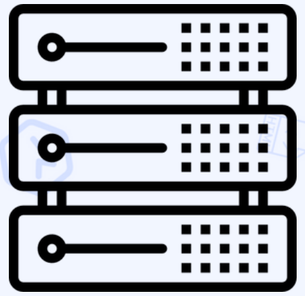
What the user sees & interact with ?

HTML, CSS, Javascript

Frontend

Request

Response



Contains App Logic

Javascript, Python, Java

Web Server

File System

HTML, CSS, Images

Database

mySQL, MongoDB

Web Development Architecture.

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In the context of Web Dev.

To categorise work.

01 Frontend Development

02 Backend Development

03 Database Management

04 Version Control System

Frontend Development

The Visible Side of Software

01 Basics - HTML / CSS / JS

All the frameworks eventually boil down the fundamentals of HTML , CSS & JS in frontend development.

02 Frameworks & Libraries

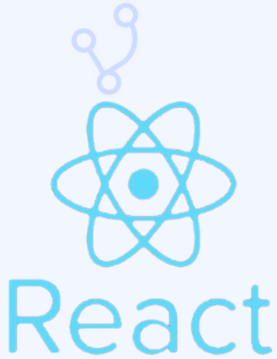
A software that provides you with some pre-defined template and code to make your development faster.

03 UI / UX

The interface that you actually see on a browser, and the experience you get while navigating through that.

Frontend Frameworks

Variety of services to choose from.



and many more . . .

Backend Development

Logic of how the webapp works !

01 Data Manipulation

All the frameworks eventually boil down the fundamentals of HTML , CSS & JS in frontend development.

02 Authentication & Security

This is the place where your crucial keys and logic lies. If they are made publicly available, service can be hampered.

03 Database Interaction

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

Backend Frameworks

Variety of services to choose from.

and many more . . .

Database Management

Storing & Handling of all Data !

01 Data Storage

Crucial information related to users, transactions or other service related info are stored.

02 File system storage Vs. Database

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

03 Types of Databases :

Broadly 2 types :

1) SQL Databases
2) NoSQL Databases

Version Control System

Managing all the projects !

01

Git

Open Source Software to maintain projects among teams for easy collaboration and tracking.

02

GitHub / GitLab

Online service for developers to maintain Git repositories remotely.

ANY QUESTIONS ?

Ask Your Doubts !

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Thank You

Attend all the classes for goodies and cash prizes.

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