VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
Approved by AICTE & Affiliated to JNTUH, Hyderabad
Bollikunta, Warangal Urban, Telangana - 506005

Department of CSE (Data Science)

A Three days hands on workshop on Webdesigning

04-09-2024 to 06-09-2024

Rapid Technologies

RAJU. K

About Rapid Technologies

Rapid Technologies is a cutting-edge software services firm specializing in IT application development. Our team of seasoned professionals brings a wealth of experience and expertise to the table, delivering solutions that transcend industry standards.

More info : https://rapidtechnologies.co.in/about-us/

Our Services

Web & Mobile Development

We carry more than just good coding skills. Our experience makes us stand out from other web & mobile development.

ERP Development

Create complex enterprise software, ensure reliable software integration, modernise your legacy system.

UI/UX Design

Build the product you need on time with an experienced team that uses a clear and effective design process.

QA & Testing

Turn to our experts to perform comprehensive, multi-stage testing and auditing of your software.
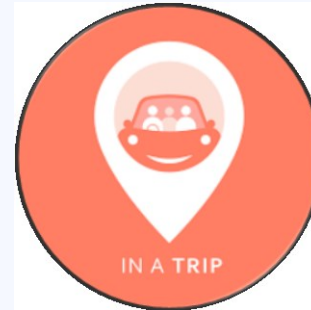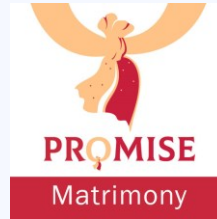
IT Counsultancy

Trust our top minds to eliminate workflow pain points, implement new tech, and consolidate app portfolios.

Dedicated Team

Over the past decade, our customers succeeded by leveraging Intellectsoft's process of building, motivating.

Our Clients

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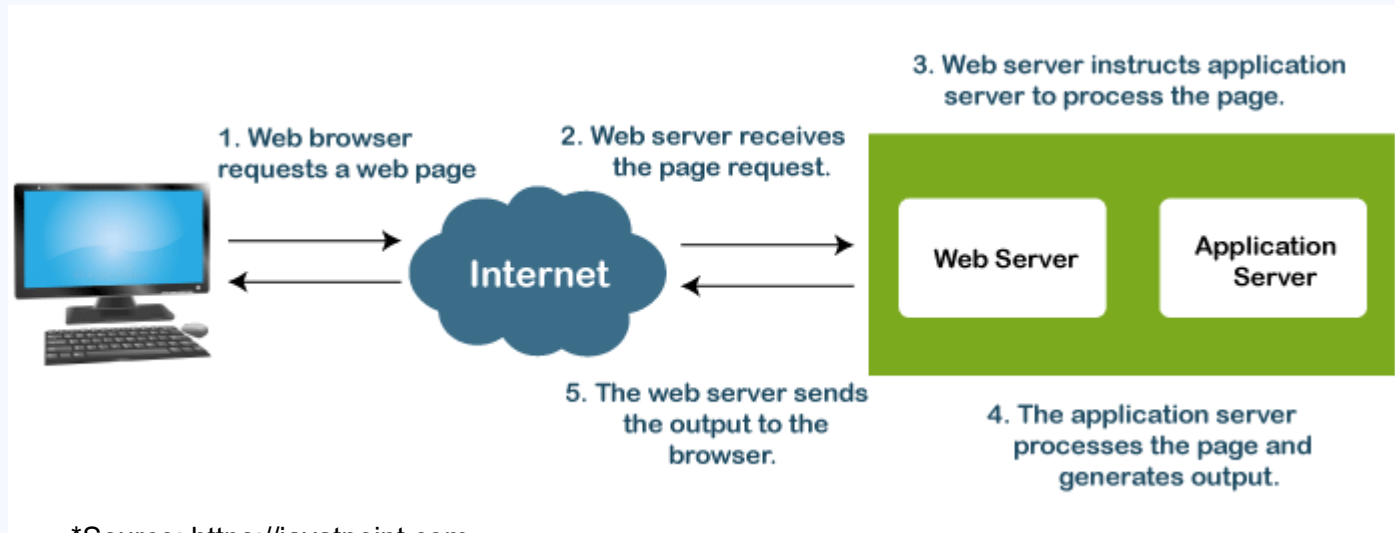
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Software Requirements

01
Introduction to Web Applications

Introduction

A Webapplication is an application program stored in a remote server and delivered over the internet through a special software called web browser

*Source: https://javatpoint.com

Concepts

Client

A webclient is a computer that is installed with a web browser software.

Web Server

A Webserver is a Computer that is installed with a webserver software

Website

A website is a program developed using different technologies and stored on webserver

Types of websites

What we require to develop a website?

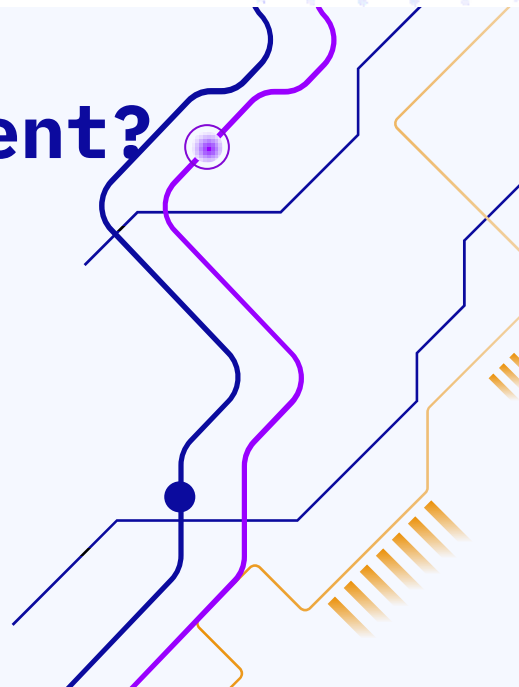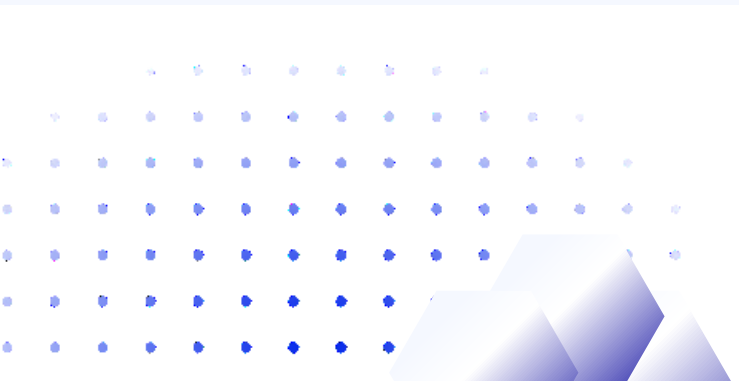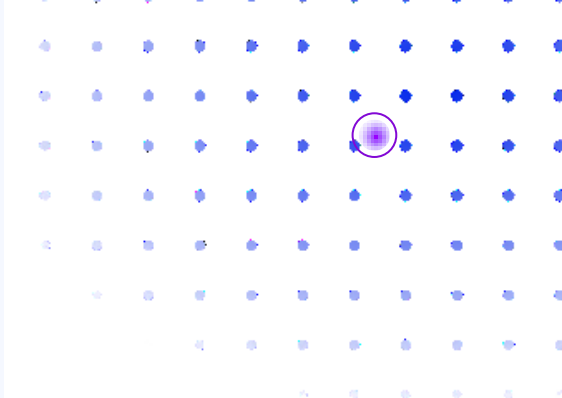As a website developer you need to develop the following

1. Frontend
2. Database
3. Server Side Scripting

02

What is Full Stack Development?

Full stack Development Roadmap

1 Learn HTML, CSS, and JavaScript

2 Understand Version Control

3 Dive into Front-End Frameworks

4 Learn Server-Side Programming

5 Explore Databases

6 Build RESTful APIs

7 Dive into Back-End Frameworks

8 Understand Web Security

9 Get Familiar with DevOps

10 Master Additional Skills

11 Build Real-World Projects

12 Stay Updated and Continuously Learn
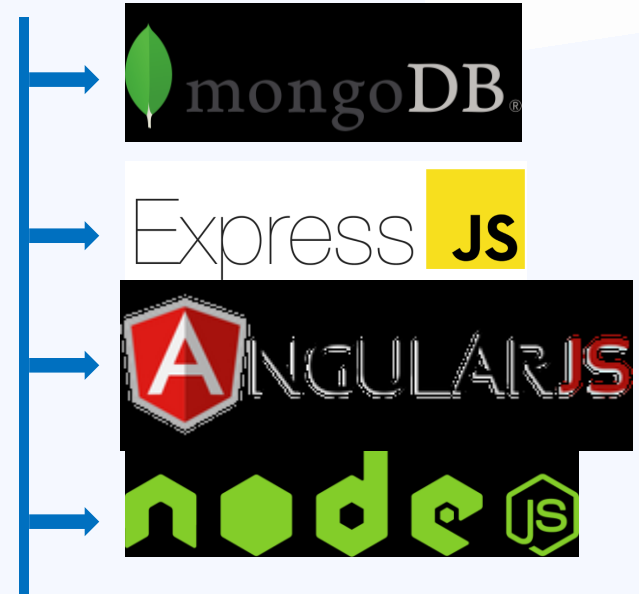
MERN Vs MEAN

MERN Stack

MEAN Stack

Web Development Frameworks

Top 10 Frameworks for Web Application Development

Ruby on Rails — Asp.net — Laravel — Vue — Django — Express — Spring — Play — Angular — Code Igniter
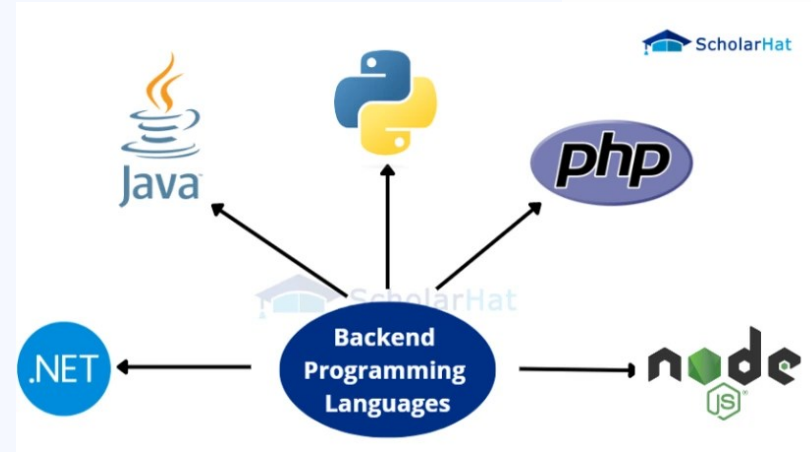
Web Development Languages
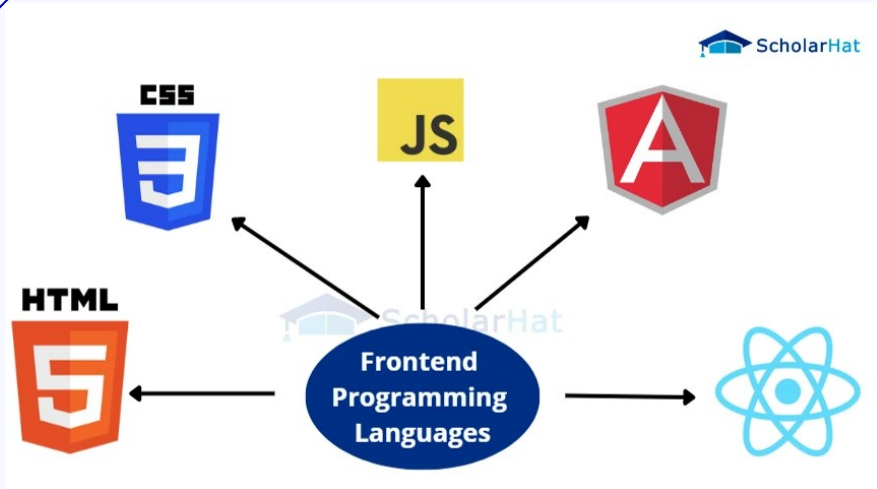
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Workshop Contents
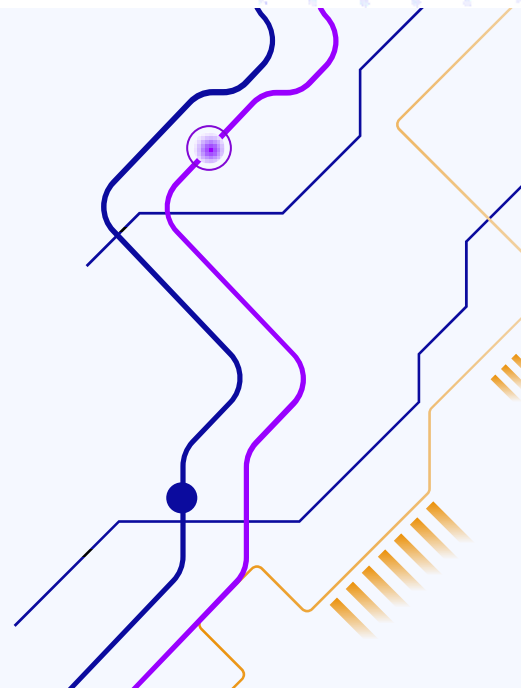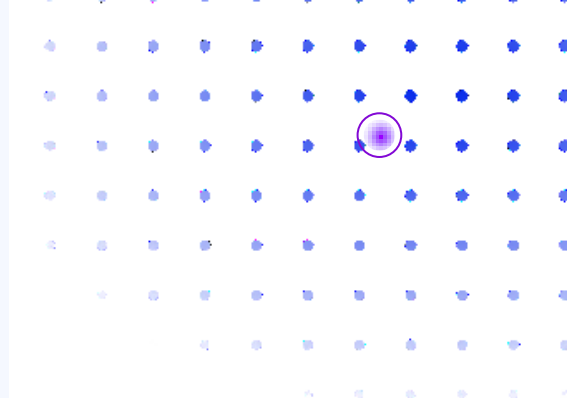
Workshop Contents

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Softwares

Git & Github

What is Git?
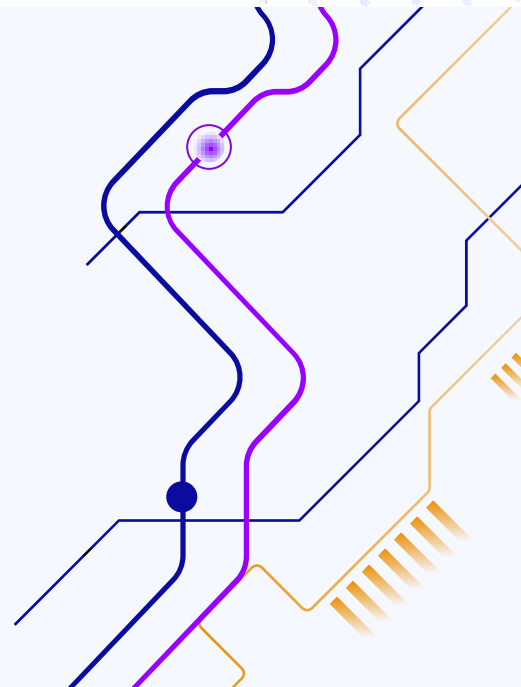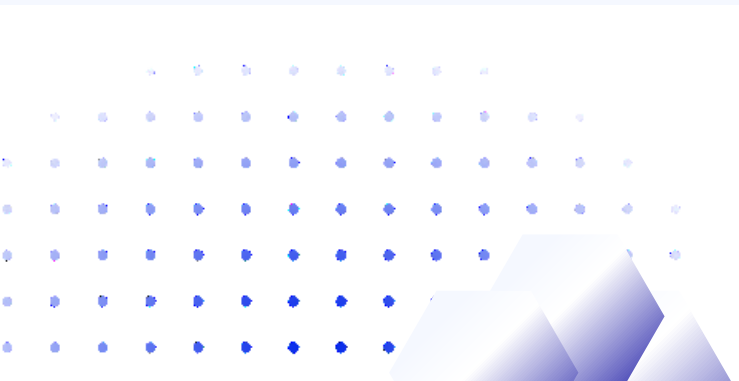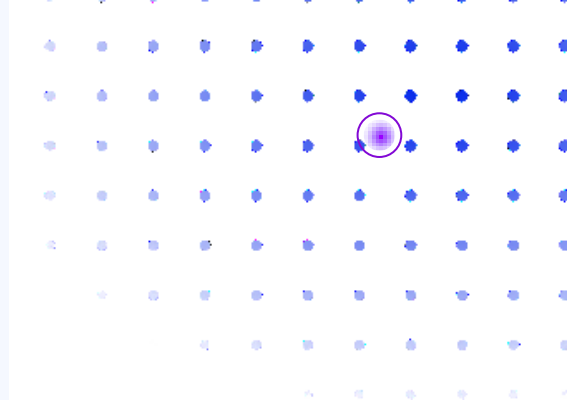
Git is a popular version control system. It was created by Linus Torvalds in 2005, and has been maintained by Junio Hamano since then.

Git Uses:

Tracking code changes
Tracking who made changes
Coding collaboration

Functionalities of Git:

Manage projects with **Repositories**
Clone a project to work on a local copy
Control and track changes with **Staging** and **Committing**
Branch and **Merge** to allow for work on different parts and versions of a project
Pull the latest version of the project to a local copy
Push local updates to the main project

Git & Github

Git Advantages:

- ➤ Snapshots
- ➤ Distributed
- ➤ Integrity
- ➤ Fast Operations
- ➤ Branch Handling
- ➤ Robust

Git & Github

Git Hub:

GitHub is a cloud-based platform where you can store, share, and work together with others to write code.

It uses Git software, providing the distributed version control of Git plus access control, bug tracking, software feature requests, task management, continuous integration, and wikis for every project
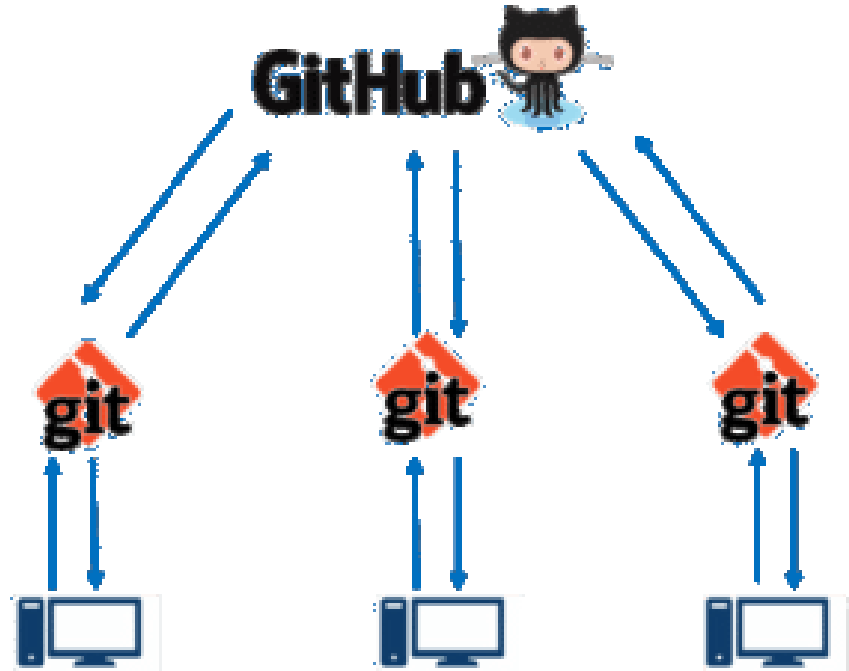
Git & Github

Github with project repository

Git tool is in intermediary between github and developer's local machine
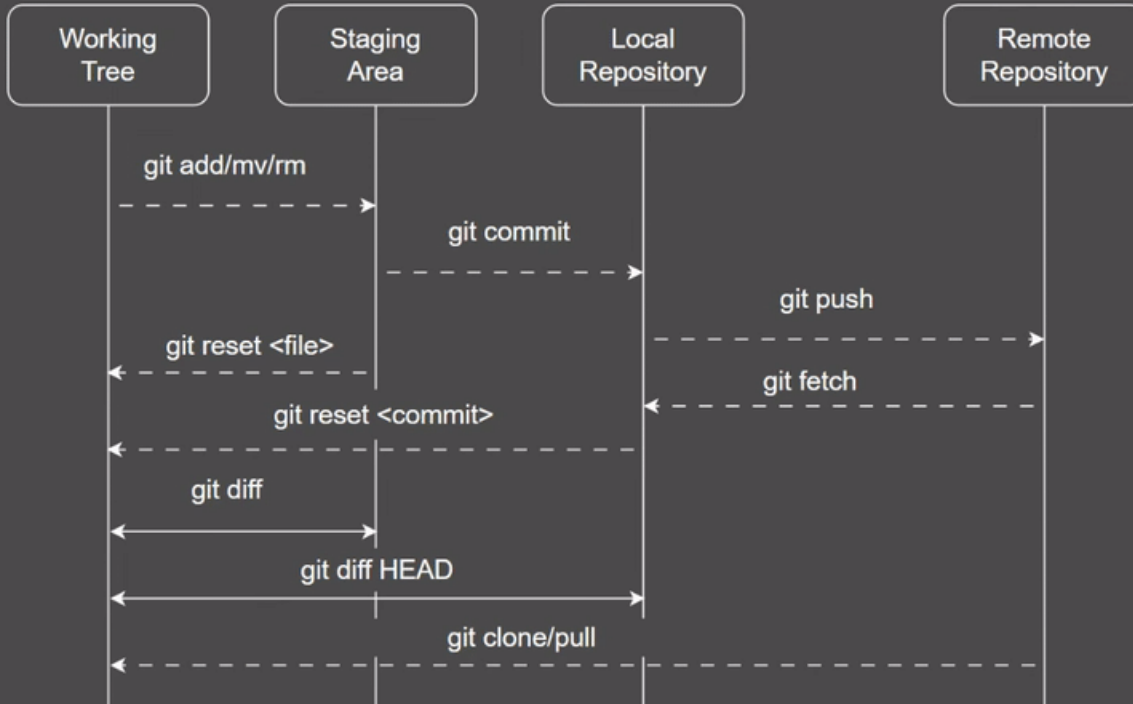
Developer's machines who are collaborated on a project

Git & Github

GIT Architecture

Vikas Rajput
@vikasrajputin

Git & Github

Git Cheat Sheet

Git: configurations

```
$ git config --global user.name "FirstName LastName"
$ git config --global user.email "your-email@email-provider.com"
$ git config --global color.ui true
$ git config --list
```

Git: starting a repository

```
$ git init
$ git status
```

Git: staging files

```
$ git add <file-name>
$ git add <file-name> <another-file-name> <yet-another-file-name>
$ git add .
$ git add --all
$ git add -A
$ git rm --cached <file-name>
$ git reset <file-name>
```

Git: committing to a repository

```
$ git commit -m "Add three files"
$ git reset --soft HEAD^
$ git commit --amend -m <enter your message>
```

Git: pulling and pushing from and to repositories

```
$ git remote add origin <link>
$ git push -u origin master
$ git clone <clone>
$ git pull
```

Thanks!

Do you have any questions?

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