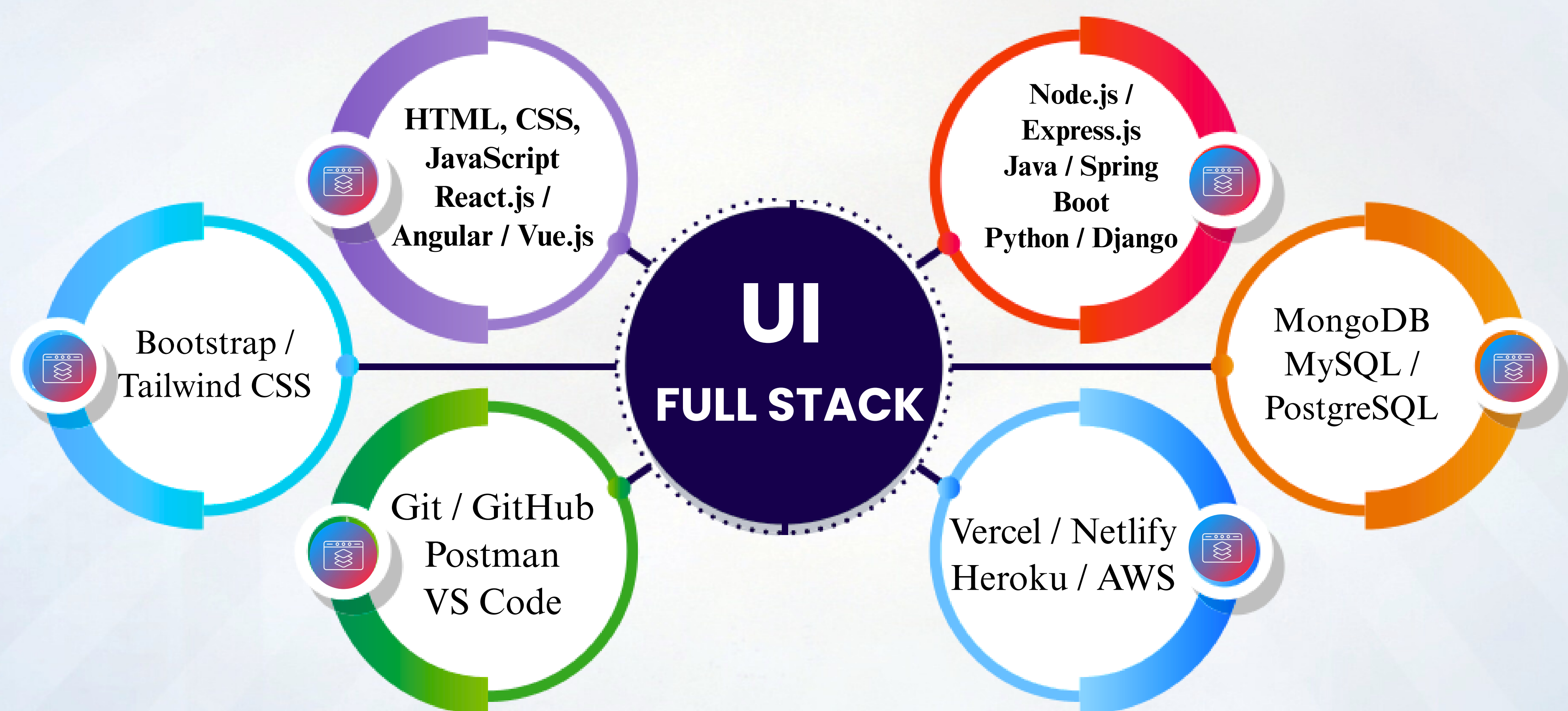




UI FULL STACK





UI FULLSTACK (MERN STACK)

MODULE - 1: HTML

- Understanding Full Stack Web Development
- Web Application
- Roles of Full Stack Engineer / Full Stack Developer
- Types of Applications
- High Level Architecture of Web Application
 - Frontend Development
 - Backend Development
 - Database
- Understanding MERN Stack
- Installation of VS Code & Extensions
- Introduction to HTML
- Purpose of HTML
- Elements & Tags in HTML
- Structure of the Tag / Representation of the Tag
- HTML Elements
 - Media Elements
 - Symantec Elements
 - Heading Elements
 - Image Elements
 - List Elements
 - Div elements
 - Table elements
 - Anchor Elements
- Attributes in HTML
- Attributes of List element
- Attributes of Image Element
- Forms Development & Validations
- Interview Questions



Module - 2: CSS

- Introduction to CSS
- Format of Properties
- Approaches in CSS
- CSS Selectors

Universal Selectors
Group Selector Id
Selector Class Selector
Tag/Element Selector
Descendant Selector
Child Selector
Examples and Exercises

- Box Model
- Margin
- Padding
- Border
- Outline
- Flex Concept
- Grid Concept
- Position in CSS
 - Static
 - Relative
 - Absolute
 - Fixed & Sticky

- Media Queries
- CSS Backgrounds
- CSS Colors
- CSS Transform
- CSS Transition
- Interview Questions



Module - 3: Bootstrap

- Introduction to Bootstrap and its features
- Grid System
- Components
- Basic Typography
- Colors
- Backgrounds
- Buttons
- Cards
- Forms
- Pagination
- Carousel
- Modal & Dialogue
- Table
- Nav Bars
- Flex
- Interview Questions

Module - 4: JavaScript

- Introduction to JavaScript
- Environment Setup
- Variables & Data Types
- Let vs var vs const
- Functions
- Objects
- Arrays & Array Methods
- Selection Statement and Loops
- Spread Operator
- Rest Parameters
- Destructuring
- Closures & Promises



- DOM and DOM Manipulation
- Asynchronous Programming
- This keyword
- FetchAPI & API Calls
- Module System in Java Script
 - ES6 Module Pattern
 - Common JS Module Pattern

- JavaScript Interview Questions

Module 5: React JS

- Introduction to React JS
- React Elements
- React DOM
- JSX
- React Components
- Props
- Vite Tool
- Functional Components
- Introduction to Hooks
- State and setState
- Rendering the List using Map()
- Axios
- Interaction between Components
- Context API
- React Routing
- useRef() hook
- useEffect() hook (**Recording will be Provided**)
- useReducer() hook
- useSelector & useDispatch & useParams..
- Lazy Loading



- Redux with Functional Component
- What is Redux
- Why Redux
- How redux will help in state management
- Installing and Configuring redux
- Store
- Dispatch
- Reducer
- How to combine Multiple reducers
- Configuring Reducers with Redux Store
- Action
- Action Creator
- Action Types
- Redux Pattern
- useSelector() hook
- useDispatch() hook
- Implementing Redux in React Application

Module 5: Backend Development

- Introduction to Node JS
- Module System using Common JS Module Pattern
- Callback & Callback hell
- Difference between callback hell and Promises
- NodeModule System
 - File
 - Path
- WeHbtStpserver
- Overview on How the Web Works
- Responses
- Introduction to Express JS



- Understanding of Web API

- What is a Web API?
- Definition and Role in Web Development

- Components of a Web API

- REST Principles
- Building REST APIs with Express
- Sending Responses
- Organizing Code
- Hands-On Exercise
- Understanding of Middleware
- Routing in Express

- What is Routing?

- Definition and Purpose
- Routing as URL Mapping

- Setting Up Routes in Express

- `app.get`, `app.post`, `app.put`, `app.delete`
- Route Parameters (`req.params`)
- Query Strings (`req.query`)

- Dynamic Routing

- Capturing Parameters in Routes

- Router Instances

- Creating and Using `express.Router()`
- Modularizing Routes into Separate Files
- Combining Multiple Routers

- Middleware in Routing

- Applying Middleware to Specific Routes
- Grouping Middleware with Routers

- Environment Variables

- Introduction to MongoDB

- What is MongoDB?
- Why Choose MongoDB?

- Installation of MongoDB



- Installation of Mongo Shell
 - What is Mongo Shell?
 - Installing Mongo Shell
- Connecting Mongo Shell with MongoDB Server
 - Starting the MongoDB Server
 - Connecting to the Server via Mongo Shell
- Creating the Database
 - Overview of MongoDB Databases
 - Creating a Database
- Collection
- BSON Format
- CRUD Operations
- Relations in MongoDB
 - Types of Relations
 - Modeling Relationships
 - Examples of Each Relation Type
- Operators in MongoDB
 - Query Operators
 - Update Operators
 - Logical Operators
 - Array Operator
 - Hands-On Exercises
- Mongoose
 - Introduction to Mongoose
 - Defining Schemas
 - Working with Models

Module 6 : Project Development

- Nodewith Mongo DB Integration
- Authentication and Authorization using JWT
- Integration of Node.js, Express, and MongoDB
 - Building an Express Server
 - Creating Routes for CRUD Operations
 - Middleware for Parsing JSON and Handling Errors
 - Connecting with MongoDB
 - Defining and Using Mongoose Models in Routes
 - Handling Query Results (e.g., **find**, **save**, **update**)
 - Using Try-Catch for Route Handlers
 - Postman for API Testing
- Integration of React , NodeJS, Express Js and Mongodb
- Final Project Development
- Interview Questions
- Resume Preparation
- Mock Interviews

COURSES OFFERING



**JAVA
FULLSTACK**



**PYTHON
FULLSTACK**



**UI
FULL STACK**



LINUX



**CLOUD
COMPUTING**



**DEVOPS
WITH AWS**



DSA



**SYSTEM
DESIGN**



**SOFTWARE
TESTING**



**CYBER
SECURITY**



**DATA
SCIENCE**

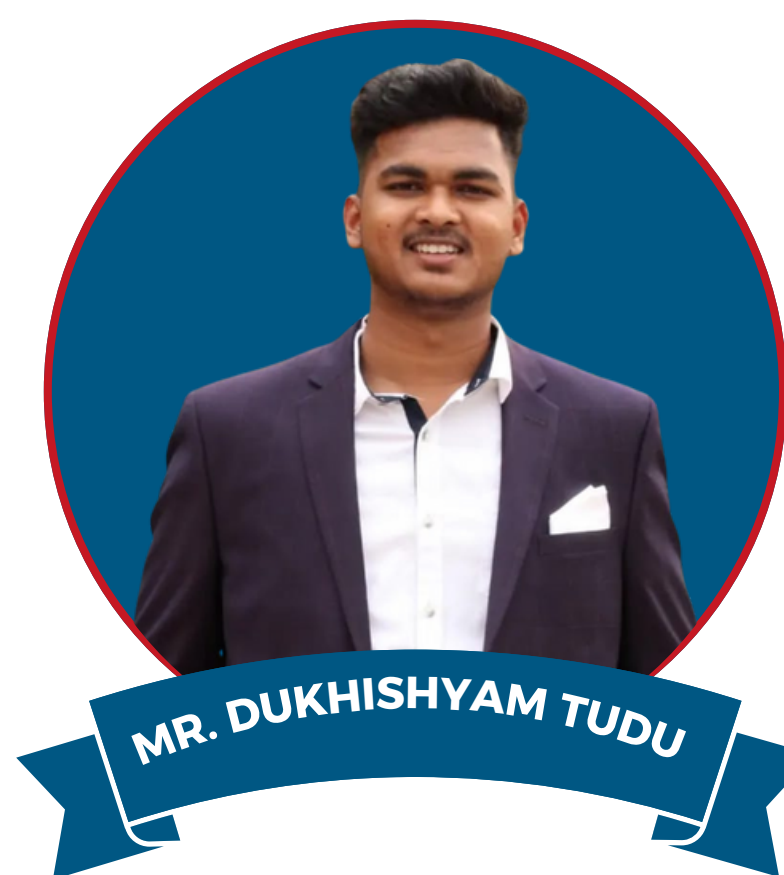


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