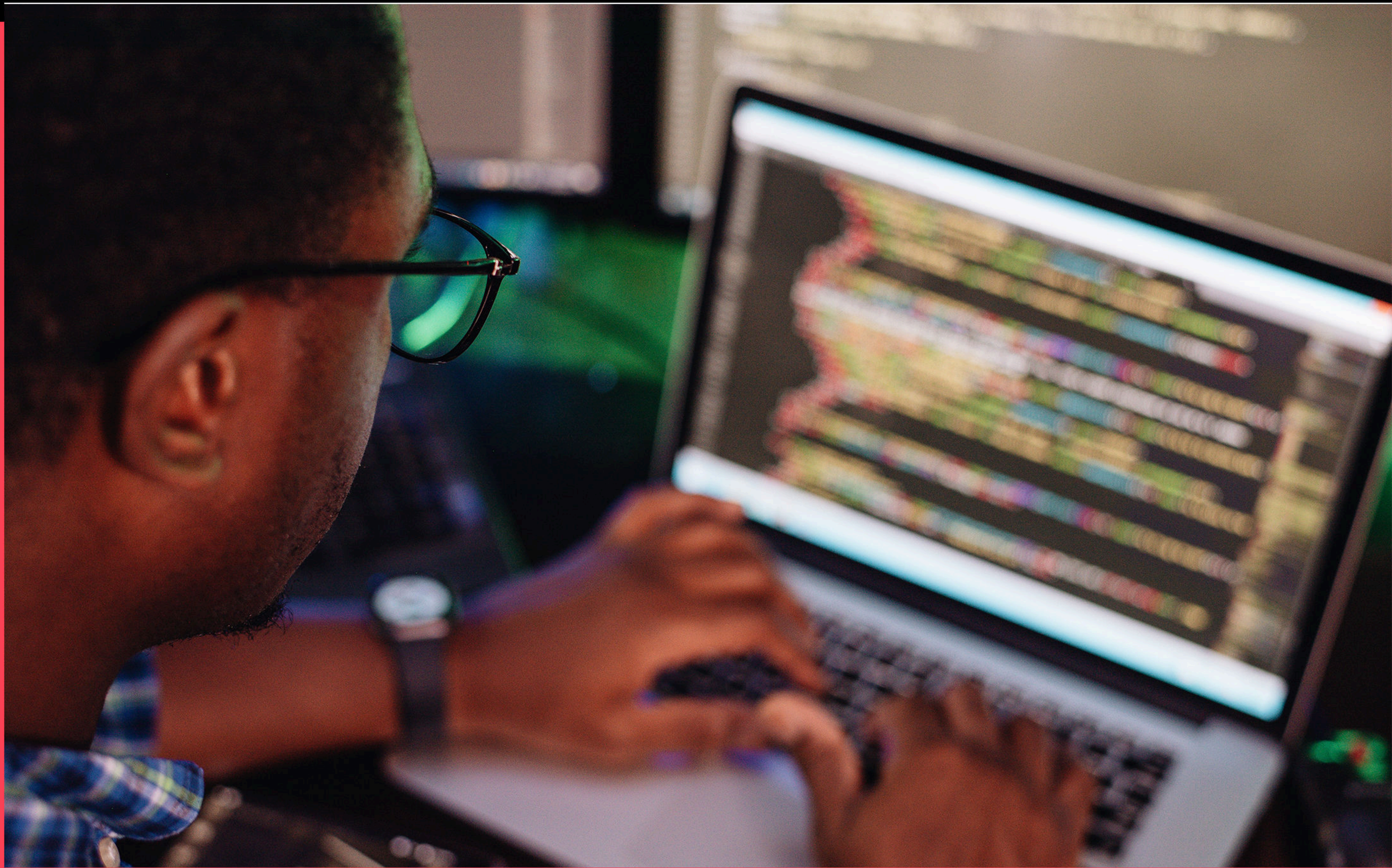
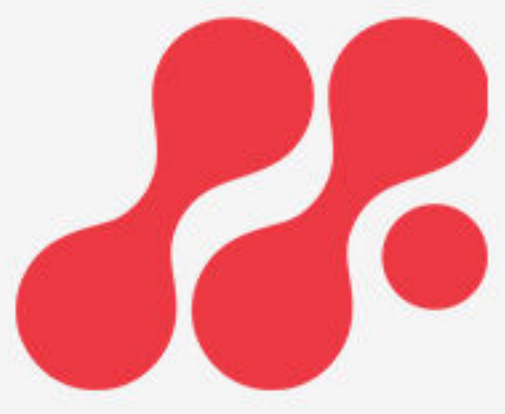


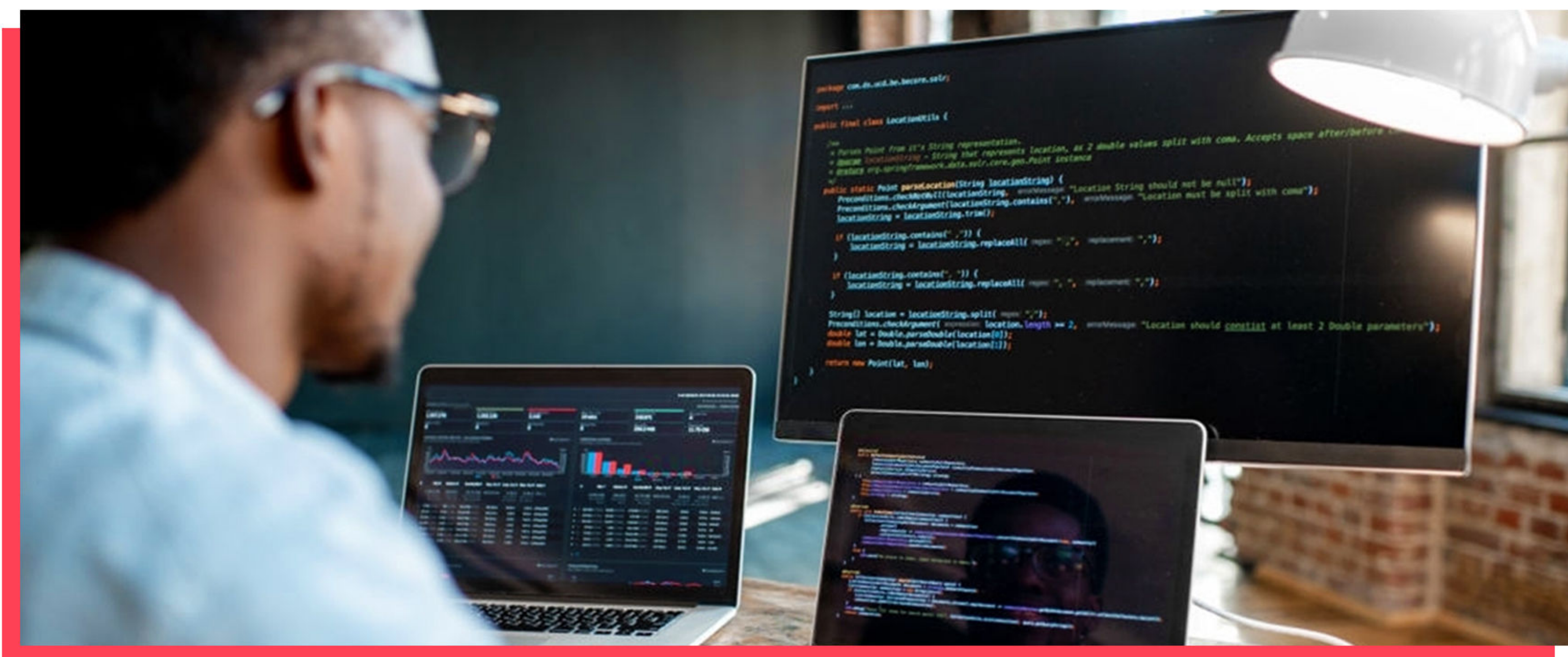
# FULL STACK WEB PROGRAMMING & DEVELOPMENT







A **Full Stack Developer** is someone who works with the Back End — or server side — of the application as well as the Front End, or client side. Full Stack Developers must have some skills in a wide variety of coding niches, from databases to graphic design and UI/UX management to do their job well.



## COURSE OBJECTIVES

- The Course Enable participants to develop a complete web application from the scratch that includes Front-end, Back-end and Data-exchange technologies in just 10 Months.
- Build strong foundations (ex: OOPS) in entry level engineers thereby making them job ready as per industry requirements. Enable them to learn new technologies by applying foundation paradigms.
- By the end of the program participants will be become an industry-ready engineer who can be readily deployed in a full web development project.

## COURSE FLOW

This is a 10 Months based course where as a student you will spend 7 Months of intensive training learning the overall Web concepts, engage in Practical Programming Exercise, Labs, Case study and Assignments.

After that you will spend 3 Months on Workshops and Project Based Learning where you will learn the fundamentals of participating in a real-life project.

## DELIVERY METHODS

This Program Consist of Classes, Mentorship, Workshops, Modularized lessons managed by Learning Management System with Assignments, Lab exercise, Practical case study, Downloadable study resources and Video lectures to fully engage the student.

Student will be involved in practical lab Exercise and Assignment after each key concept is taught, the lab work shall be in the form of practical with guide from instructors, each assignment and lab work shall be used as part of performance and assessment grading.

## PREREQUISITE

This program requires no prerequisite courses. It's designed for beginners learning from scratch. Our goal is to help you go from 0% to 100% and learn enough to do more.





## COURSE OUTCOME

The expected learning outcome for each student participating in the Full-stack Web Application Development Course are listed below.

1. Student should have a complete overview of web technologies as it applies in the industry today.
2. Student should be able to develop intuitive frontend pages using HTML, CSS, & JavaScript's based on design developed on FIGMA or XD.
3. Student should develop the skills to convert frontend pages written in HTML and CSS into reactive Frontend Frameworks e.g Vue JS or React JS.
4. Student should be able to develop backend logic using Backend Frameworks e.g Node JS or PHP-Laravel.
5. Student should be able to interpret product functional description from client as well as from FIGMA or XD designs and convert them into backend logic.
6. Student should develop understanding of REST API and should be able to develop and expose backend logic as API endpoints for consumption by 3rd party application e.g Frontend & Mobile Apps.
7. Student should be able to consume exposed API on apps written with a frontend reactive framework e.g Vue JS.
8. Student Should be able to feature in any Web Application development project after learning the industry base concept involved in a project by taking part in the project outline for the course with intensive guide from an industry mentor. Some key concept to learn during this phase will be :
  - Understanding Product Requirement Elicitation.
  - Web Application Structure, Architecture & Workflow.
  - Web Application Segregation e.g Databases, Frontend, Backend.
  - Version Control.
  - Testing.
  - Hosting & Continuous Integration & Deployment (CI & CD).

## MODULES

1. **Module 1** -- Web Fundamentals (Web Design, HTML5, CSS, Bootstrap, JavaScript, GIT)
2. **Module 2** -- Frontend Frameworks (VueJS or React JS)
3. **Module 3** - Database (MySQL, MongoDB)
4. **Module 4** - Backend Frameworks (Laravel, Node.js)
5. **Module 5** - Data Exchange (HTTPS, Web Socket, REST API, API Management)
6. **Final Project**





# Course Syllabus

WEB FUNDAMENTALS- MODULE 1	
MODULE OBJECTIVES	DETAILED COURSE CONTENT
<p>Building Strong expertise to develop front end application using HTML5 &amp; CSS.</p> <p>Become proficient in Bootstrap concepts.</p> <p>Building Strong expertise to develop front end application using JavaScript along with JavaScript frameworks e.g Vue JS.</p> <p>Implement MVC and responsive design to scale well across PC, tablet and Mobile Phone.</p>	<p><b>Lesson 1</b> Introduction to Web Design – UI/UX</p> <p><b>Lesson 2</b> HTML &amp; CSS</p> <p><b>Lesson 3</b> Bootstrap</p> <p><b>Lesson 4</b> JavaScript</p>

FRONTEND FRAMEWORKS- MODULE 2	
MODULE OBJECTIVES	DETAILED COURSE CONTENT
<p>Building Strong expertise to develop front end application using Vue JS</p> <p>Gain Hands on Experience to implement MVC and responsive design to scale well across PC, tablet and Mobile Phone.</p>	<p><b>Lesson 1</b> Introduction to JavaScript Frameworks</p> <p><b>Lesson 2</b> Vue JS</p>



# Course Syllabus

## DATABASES - MODULE 3

### MODULE OBJECTIVES

Building strong expertise in Relational Database Management System.

Understanding the Fundamentals of effective Database Design.

### DETAILED COURSE CONTENT

#### Lesson 1

Introduction to Database Design

#### Lesson 2

Database Design with MySQL

## BACKEND FRAMEWORK - MODULE 4

### MODULE OBJECTIVES

Building Strong expertise on Backend Frameworks to develop web application

Implement frontend and backend scenarios to read, write and update data stored in MySQL.

Building Strong Logical thinking capabilities for Backend related activities.

### DETAILED COURSE CONTENT

#### Lesson 1

Introduction to OOP

#### Lesson 2

Introduction to MVC

#### Lesson 3

Node JS – JavaScript Framework

#### Lesson 4

Laravel – PHP Framework





# Course Syllabus

## DATA EXCHANGE - MODULE 5

### MODULE OBJECTIVES

Building strong expertise in REST API  
Understand the Implementation and use cases of APIs  
Connect application frontends to server backends using APIs

### DETAILED COURSE CONTENT

#### Lesson 1

Introduction to Data Exchange Protocol  
(HTTPS, Web Socket)

#### Lesson 2

REST API

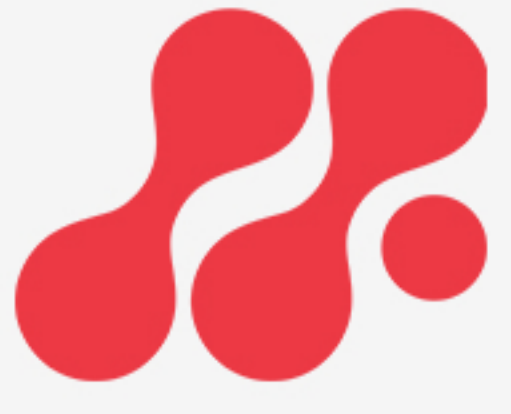
#### Lesson 3

API Management

## FINAL PROJECT

Some of the learning outcome for the final projects are,

- Understanding Product Requirement Elicitation
- Web Application Structure, Architecture & Workflow
- Web Application Segregation e.g Database, Frontend, Backend
- Version Control
- Testing
- Hosting & Continuous Integration & Deployment (CI & CD)



FULL STACK WEB PROGRAMMING  
& DEVELOPMENT

**Ready To Take  
The Next Step?**

**APPLY NOW**