Full-Stack Development Training and Internship Syllabus

15 Days - Basics of Full-Stack Development

- **Introduction to Web Development**
  - Frontend, Backend, and Full-Stack Overview
  - Tools and Technologies (VS Code, Git, Browsers)
- **HTML & CSS Basics**
  - Structure of Web Pages
  - Styling with CSS (Selectors, Box Model)
- **JavaScript Basics**
  - Variables, Functions, and Loops
  - DOM Manipulation
- **Introduction to Git and GitHub**
  - Version Control Basics
  - Repository Setup and Collaboration

30 Days - Frontend Development Foundations

- **Includes 15-Day Modules**
- **Advanced HTML & CSS**
  - Responsive Web Design (Media Queries)
  - CSS Frameworks (Bootstrap)
- **JavaScript Intermediate**
  - ES6 Features (Arrow Functions, Classes)
  - Event Handling and Debugging
- **Introduction to Frontend Frameworks**
  - Basics of React.js
  - Component Creation and Props
- **Project**
  - Static Website Development

45 Days - Backend Development Basics

- **Includes 30-Day Modules**
- **Introduction to Backend Development**
  - Role of Backend in Web Applications
  - Overview of Server-Side Languages (Node.js Introduction)
- **Node.js and Express.js**
  - Setting Up a Server
  - Routes and Middleware

- **Database Basics**
    - SQL vs. NoSQL Databases
    - Introduction to MongoDB
- **Project**
    - Simple CRUD Application

60 Days - Intermediate Full-Stack Development

- **Includes 45-Day Modules**
- **Advanced React.js**
    - State Management with Context API
    - Hooks (useState, useEffect)
- **RESTful APIs**
    - Designing and Consuming APIs
    - API Testing with Postman
- **Authentication & Authorization**
    - JWT and Session Management
    - Role-Based Access Control
- **Project**
    - MERN Stack Application (Frontend + Backend Integration)