📚 Kamrul Academy Full Stack Web Development Course

🛠️ Sprints 1–10: Technical Mastery (20 Weeks)

Sprint 1 (Weeks 1–2): HTML, CSS, and JavaScript Basics

- **Module 1**: First Steps into JavaScript

- **Module 2**: Program Flow

- **Module 3**: Functions

- **Module 4**: HTML & CSS I

Sprint 2 (Weeks 3–4): Git, Arrays, and Intermediate CSS

- **Module 1**: Git and GitHub Fundamentals

- **Module 2**: Objects and Arrays in JavaScript

- **Module 3**: Manipulating Arrays

- **Module 4**: HTML & CSS II (Layouts & Styling)

Sprint 3 (Weeks 5–6): Advanced JavaScript and Flexbox

- **Module 1**: Advanced Objects

- **Module 2**: Advanced Functions

- **Module 3**: JavaScript in the Wild (real-world usage)

- **Module 4**: HTML & CSS III (Flexbox & Responsive Design)

Sprint 4 (Weeks 7–8): DOM and Component-Based JavaScript

- **Module 1**: DOM Manipulation Techniques

- **Module 2**: Events and Event Handlers

- **Module 3**: Component Architecture Fundamentals

- **Module 4**: Asynchronous JavaScript and Promises

Sprint 5 (Weeks 9–10): Core React Development

- **Module 1**: React Components & JSX

- **Module 2**: React State and Props

- **Module 3**: React Hooks & Side Effects

- **Module 4**: Advanced Styling in React (CSS-in-JS, Bootstrap)

Sprint 6 (Weeks 11–12): Advanced React, Forms, and Testing

- **Module 1**: Client-side Routing with React Router

- **Module 2**: Form Management (onChange, onSubmit)

- **Module 3**: Form Validation with Yup

- **Module 4**: End-to-End Testing with Cypress.io

Sprint 7 (Weeks 13–14): React Architecture and Testing

- **Module 1**: Class Components and Lifecycle Methods

- **Module 2**: Order of Code Execution in React

- **Module 3**: Separation of Concerns (Hooks & Services)

- **Module 4**: Automated Testing with RTL and Jest

Sprint 8 (Weeks 15–16): State Management (Redux & Context API)

- **Module 1**: Reducer Pattern and Redux Design

- **Module 2**: Async Redux (Thunk and Middleware)

- **Module 3**: Modeling App State (Finite State Machines)

- **Module 4**: Context API for Global State Management

Sprint 9 (Weeks 17–18): Authentication, Authorization, and CRUD

- **Module 1**: Authentication vs Authorization Basics

- **Module 2**: Client-Side Authentication (JWT, Tokens, Secure Routes)

- **Module 3**: CRUD Interfaces using REST APIs

- **Module 4**: HTTP Requests and Backend Integration

Sprint 10 (Weeks 19–20): Back-End Fundamentals with Node, Express, and SQL

- **Module 1**: Node.js, Express Setup, Routing & Middleware

- **Module 2**: Relational Database Basics, SQL Queries with Knex

- **Module 3**: Multi-Table Queries, Database Modeling

- **Module 4**: Deployment on Heroku and Vercel, GitFlow for Deployment

🎯 **Sprint 11 (Weeks 21–22): Career Readiness and Capstone Preparation**

(Combines Career Skills from ACS 1–4)

- **Module 1**: General Code Assessment Practice & Technical Exams

- **Module 2**: GitHub Profile Enhancement & Open Source Contributions

- **Module 3**: LinkedIn Profile Optimization, Resume Building

- **Module 4**: Career Networking, Interview Preparation

🕑 **Total Duration: 22 Weeks**