**MERN Stack Development**

* **Core JavaScript**
  + **Chapter-1**
    - Introduction
    - History of JavaScript
    - Technologies used
    - Advantages and disadvantage
    - JavaScript applications
    - JavaScript VS Java
    - Career om JavaScript
  + **Chapter-2**
    - Character Set
    - Identifier
    - Data Types
      * Primitive values
        + Boolean
        + Null
        + Undefined
        + Number
        + BigInt
        + String
        + Symbol
      * Objects
        + Collections of properties
    - Variables
    - Operators
    - Type conversion
  + **Chapter-3**
    - Selections
    - Loops and Iteration
    - Branching statement
  + **Chapter-4**
    - Introduction to function
    - Defining a function
    - Calling a function
    - Embedding JavaScript file
    - Function parameter and argument
    - Returning value
    - Variable scope and lifetime
    - Hoisting variable
    - Recursive function
    - Function expressions
  + **Chapter-5**
    - Introduction
    - Object
      * Constructor
      * Methods
      * Property
    - Class
      * Encapsulation
      * Polymorphism
      * Inheritance
  + **Chapter-6**
    - Introduction to error
    - Types of Error
    - Error handling
  + Text formatting
  + Regular expressions
  + Indexed collections
  + Keyed collections
  + Working with objects
  + Details of the object model
  + Using promises
  + Iterators and generators
  + Meta programming
  + JavaScript modules
  + Client-side JavaScript frameworks
  + Client-side web APIs
  + A re-introduction to JavaScript
  + JavaScript data structures
  + Equality comparisons and sameness
  + Closures
  + Inheritance and the prototype chain
  + Strict mode
  + JavaScript typed arrays
  + Memory Management
  + Concurrency model and Event Loop
* **NodeJS**
  + Introduction
  + Download and Installation
  + Hello world
  + Node Package Manager (NPM)
  + Console
  + REPL
  + Modules
  + Global
  + OS
  + Timer
  + Errors
  + DNS
  + Net
  + Crypto
  + TLS/SSL
  + Debugger
  + Process and Child Process
  + Buffer
  + Streams
  + File System
  + Path
  + StringDecoder
  + QueryString
  + ZLIB
  + Assertion
  + V8
  + Callbacks
  + Events
  + Punnycode
  + TTY
  + Web Modules
  + NestJS
  + MySQL (CRUD)
  + MangoDB (CRUD)
* **ExpressJS**
  + Introduction
  + Environment Setup
  + Hello World
  + Routine
  + HTTP Methods
  + URL Building
  + Middleware
  + Templateing
  + Static Files
  + Form Data
  + Database (MySQL/Mango)
  + Session and Cookies
  + Authentication
  + RESTAPI
  + Scaffolding
  + Error Handling
  + Debugging
* **MongoDB**
  + Introduction
  + Environment Setup
  + Database Manage (Create, Drop)
  + Data Types
  + Collection (Create, Drop)
  + Insert, Select, Update, Delete (Document)
  + Projection
  + Limiting Records
  + Sorting Records
  + Indexing
  + Replication
  + Sharding
  + Backup/Restore
  + Node/Java/PHP/Python Connectivity
  + Relationship
  + References
  + Covered Queries
  + Analyzing Queries
  + Atomatic Operations
  + Advanced Indexing
  + OobjectID
  + Map Reduce
  + Text Search
  + Regular Expression
  + GridFS
  + Capped Collections
  + Auto-Increment Sequence
* **ReactJS**
  + Introduction
  + Frontend tools
  + Development tool and environment
  + ES6
  + Render HTML
  + JSX
  + Components
  + Class
  + Props
  + Events
  + Conditionals
  + Lists
  + Forms
  + Router
  + Memo
  + CSS Styling
  + Sass Styling
  + Hooks
  + Introduction
  + useState
  + useEffect
  + useContext
  + useRef
  + useReducer
  + useCallback
  + useMemo
  + customHook
* Final Project