

# Custom Course React and Node

## REACT JS

Table of content:

- **Welcome to React**
  - Introduction
  - Setup Environment
  - First React Application
  - React Project structure
- **Understanding Props**
  - Define Props in the parent component
  - Receiving Props in the child component
  - Combining JavaScript and Props to Render content
  - Rendering Arrays
  - Rendering Multiple Elements
  - Rendering No Content
  - Attempting to change Props
  - Using Function Props
  - Passing on Props to Child Components
  - Providing Default Prop Values
- **Event Handling**
- **State and the Component Tree**
  - **React State Management: React Hook**
    - useState
    - useEffect
- **Consume Restful api with Axios library**
- **React Router**
  - Incorporating the Router
  - Nesting Routes
  - Route Parameters

# NODE JS

## Table of content:

- 1. Understanding Node environment**
  - a. Introduction
  - b. Creating and HTTP Server
  - c. The Request objects
  - d. Working with Headers
  - e. Handling Post Data
- 2. Access the File System**
  - a. Directories & iterating overs files and folders
  - b. Reading from File
  - c. Writing to a File
- 3. Using Express**
  - a. Installing Express and Making it Easier to Build Web Server
  - b. Routes
  - c. Middleware
- 4. Databases**
  - a. MongoDB and Mongoose
  - b. CRUD operation using MongoDB
- 5. Working with MySQL**
  - a. CRUD Operation using MYSQL