

## Section 1 – React Introduction

- React Introduction and Setup
- React Project Structure
- Import and Export Module
- Component Introduction (Class and Function)
- Class Component and render()
- JSX Introduction
- Binding Data (Number, String , Object and Array) into JSX

- \*1. Create Class Component and design UI with render() function.
- \*2. Create Multiple Component and Showing in App Component.
- \*3. Show variables in JSX.
- \*4. Show Object and Array in JSX.

- #1. Show Array of Objects in JSX
- #2. Create Multiple Component and Show into another.

## Section 2 – Component State and Binding

- State Introduction
- Data Binding in Component
- Event Binding in Component
- setState() function
- ref in Component
- Styling in Components
- Attach Bootstrap in Project
- Form and onSubmit() Event

- \*1. Create numeric state and change its value on button click event.
- \*2. Increment and Decrement Numeric State Value
- \*3. Create Dynamic Friend List with add and delete operation. All friends name show in unordered list. When user click on any list item show name in alert box;
- \*4. Student Management Record Program with Full CRUD Operations.

rollnumber , name , email , city , branch , physics , chemistry , maths

Note : 1. Email and rollNumber not duplicate

2. RollNumber, name , Email, branch , physics , chemistry , maths are mandatory

- #1. Student Marksheet Generate Program
- #2. Basic Calculator
- #3. Create a slider with 10 images in javascript with next and previous button.
- #4. Create a Stopwatch.

## Section 3 – Props and Context

- Props Introduction
- Parent and Child Communication
- Props Drilling
- Context in Class Component

- \*1. Send Data from Parent Component to Child Component.
- \*2. Send Data from Child Component to Parent Component.
- \*3. Student Management Project with Props.
- \*4. Props Drilling Problem solve with Context.

- #1. Change the Parent Component State from Child Component.
- #2. Send Data between Sibling Components.
- #3. Manage Multiple Students Exam Details with Props (individual exam data is a separate component) :

Exam Details : RollNumber , Name , Branch , Physics , Chemistry , Maths

- Operations :
1. Add Exam Details
  2. Delete Exam
  3. Filter Exam Records Via Branch , Name and Roll Number

- #4. Share App Component Data between Child Via Context.

## Section 4. Routing and Template Integration

- React Routing
- BrowserRouter , Routes , Route , and Link Component
- Template Integration
- Public and Private Routing

- \*1. Create Multiple Component and route all components via Menu Bar.
- \*2. Template Integrate via download from google.

# Integrate these Templates :

1. <https://www.free-css.com/free-css-templates/page287/onix-digital>
2. <https://www.free-css.com/free-css-templates/page287/dicet-tv>
3. <https://www.free-css.com/free-css-templates/page284/pet-shop>
4. <https://www.free-css.com/free-css-templates/page283/medinova>

## Section 5. Function Component and Hooks

- Function Component and Rendering
- Hooks Introduction
- useState() , useEffect() , useRef() , useParams() , useContext()
- State and Props

- \*1. Create all Previous Programs via Function Component.

- #1. Create Photo Gallery with add and delete images via Function Component.
- #2. Create To-Do List Program.

## Section 6. Web Communication

- Call Rest Apis via Fetch and Axios Module.
- GET , POST , PUT and DELETE Method
- File Uploading via FormData
- Use Email Api for Practice
- Create Email Admin Project with Class Component

- \*1. Call Category List (GET) Api and show data in table.
- \*2. Call Category Save (POST) Api and show the result.

#1. Use this Api : <https://dummyjson.com/users>

1. Show Data in Table in sorted order via age by default
2. Manually change the Sorting via  
gender, blood group, weight, firstname

#2. Use this Api : <https://dummyjson.com/products>

Show Response Data in UI via Child Component

## Section 7. Redux

- Redux Introduction
- Action , Reducer and Store
- Dispatcher and Subscriber
- Manager data with Redux Store

- \*1. Create Project which manage data between multiple components using Redux.
- \*2. Shopping Cart Manage App

#1. Create Online Exam Portal with maximum 20 Single Choice questions. After complete the exam result also show on screen. Maximum time for attempting one question is only 3 seconds.

## Section 8. Email Project

- Implement Email Api and create user panel with Registration , Login , Cart and Purchase functionality.
- JWT Token Introduction and Implementation.

\*APIS : <http://apps.skilledfresher.in/email/apis/apis.txt>

#Project Api : <http://apps.skilledfresher.in/chatbuddy/apis/apis.txt>