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|-------------|---------------------|
| Course Code | TA10218             |
| Course Name | React.js - S1       |
| Sub skill   | React JS with Redux |

|                  |    |                   |    |
|------------------|----|-------------------|----|
| Duration (Hours) | 18 | Proficiency Level | S1 |
|------------------|----|-------------------|----|

## Pre-requisites

- Knowledge of HTML,CSS & Java-Script

## Learning Outcome

At the end of the program, participants will learn

- React's flexible Ecosystem and its architecture
- Concepts like JSX, Functional & Class components, State Management , Forms, Redux , Router
- Skills required for developing client side (Single Page) applications using React JS

## Session Plan

| Unit                      | Objective(s)                         | Hours |
|---------------------------|--------------------------------------|-------|
|                           |                                      |       |
| ECMA Script 6 features    | Understand Let, const, class etc.    | 1     |
| Overview of SPA           | React Ecosystem Vs Angular Framework | 3     |
| Introduction to React     | What is React JS                     |       |
|                           | Introduction to JSX                  |       |
|                           | Using Elements ,Props                |       |
|                           | Creating Functional Components       |       |
|                           | Creating Components using class      |       |
|                           | Understanding State                  |       |
| Component Life Cycle      |                                      | 1     |
| Event Handling in React   |                                      | 1     |
| State Management          | Lifting State Up                     | 1     |
| Advanced React Components | Loading...                           | 2     |
|                           | Higher Order Components              |       |
|                           | Advanced Sorting (Lodash)            |       |

|                       |  |                  |
|-----------------------|--|------------------|
| Forms in React        | Controlled Components, Validators using Prop Types | 2                |
| Introduction to Redux | Actions, Reducers etc.                             | 2                |
| React Router          |  | 2                |
| Styling components    | Inline styling                                     | 2                |
|                       | using libraries like cssmodules, styledcomponents  |                  |
| Testing               |  | 1                |
|                       | <b><i>TOTAL</i></b>                                | <b><i>18</i></b> |