



Module
Presenter's Manual
for
**Frontend Web
Development with React**

***Effective from: April 2023
Ver. 1.0***

Amendment Record

Version No.	Effective Date	Change	Replaced Pages
1.0	April 2023	New	-

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1. Introduction

At the end of this course, students will be able to:

- Build beautiful and functional Web applications with ReactJS
- Learn JSX elements
- Explain Event Handling in ReactJS
- Explain about the ReactJS router and its basic components
- Explain the different styling methods in ReactJS
- Explain different phases of the ReactJS component
- Illustrate the development of a CRUD application using ReactJS forms

2. Information on Session Allocation

Module	Online (No. of Hours)	Self-Study (No. of Hours)
REACT	24	10

Throughout this Presenter's Manual, the module **Frontend Web Development with React** will be referred to as **REACT**.

3. Week-wise Session Schedule

- A Session is of 2 hours duration.





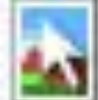



➤ Week-Wise Schedule

Week	Day 1		Day 2	Day 3		Day 4	
1	Session 1 REACT – TL1		Session 2 REACT –TL2	Session 3 REACT – TL3		Session 4 REACT – TL4	S1
2	Session 5 REACT – TL5		Session 6 REACT – TL6	Session 7 REACT – TL7	S2	Session 8 REACT – TL8	
3	Session 9 REACT – TL9	S3	Session 10 REACT – TL10	Session 11 REACT – TL11	S4	Session 12 REACT – TL12	S5

TL: Online Session

S: Self Study (over and above the module duration)

Resources available on OnlineVarsity for Students:

Icons	Feature - Description/Functionality
	Download Book - Student has the option to download the subject related e-book and read offline.
	Glossary - Student can access a list of subject related specialized words with their definitions.
	FAQ - Student can access frequently asked questions and their answers.
	Practice 4 Me - Student can test and evaluate their understanding of module related topics.
	Work Assignments - Student can solve scenario based lab assignments (Hands-on). The faculty will evaluate and give their feedbacks.
	References - Student can access additional subject related material for reading.
	Feedback - Student can provide feedback on the course material.
	Ask to Learn – Student can submit subject related technical queries. Queries submitted will be directed to the particular course coordinator/head.

4. Session Coverage

Session No.	Session Title	Session Details	Deliverables' Mapping
1	REACT – TL1	<p>All the topics as listed below from Session 1 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 1 – Introduction to ReactJS</u></p> <ul style="list-style-type: none"> ➤ Explain ReactJS ➤ Explain the ReactJS ecosystem ➤ Explain the core concepts of ReactJS ➤ Illustrate the setup of the ReactJS development environment ➤ Illustrate installation of the create-react-app library 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 1 XP – Session 1 TG – Session 1</p>
2	REACT – TL2	<p>All the topics as listed below from Session 2 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 2 – ReactJS Components</u></p> <ul style="list-style-type: none"> ➤ Explain ReactJS components and the types of ReactJS components ➤ Distinguish between Functional and Class components ➤ Explain how to pass data between ReactJS components 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 2 XP – Session 2 TG – Session 2</p>
3	REACT – TL3	<p>The Try It Yourself questions from Session 1 and Session 2 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p>	<p><u>FrontEnd Development with ReactJS</u></p> <p>Session 1 & 2</p>
4	REACT – TL4	<p>All the topics as listed below from Session 3 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 3 – JSX Elements</u></p> <ul style="list-style-type: none"> ➤ Illustrate creating and rendering 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 3 XP – Session 3 TG – Session 3</p>

Session No.	Session Title	Session Details	Deliverables' Mapping
		<p>JSX elements</p> <ul style="list-style-type: none"> ➤ Illustrate nesting JSX Elements ➤ Explain JSX expressions ➤ Explain the properties of JSX 	
	S1	<p>All the Assignments from <i>Session 1</i> to <i>Session 3</i> of <i>FrontEnd Development with ReactJS</i> course should be solved in this session.</p>	<p><u>FrontEnd Development with ReactJS</u> (OnlineVarsity)</p> <p>Session 1-3</p>
5	REACT – TL5	<p>All the topics as listed below from <i>Session 4</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 4 – Event Handling in ReactJS</u></p> <ul style="list-style-type: none"> ➤ Explain event handling in ReactJS ➤ Explain the basic syntax of ReactJS event handling ➤ Explain the different types of events ➤ Explain the best practices of event handling ➤ Explain Hooks 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 4 XP – Session 4 TG – Session 4</p>
6	REACT – TL6	<p>The Try It Yourself questions from <i>Session 3</i> and <i>Session 4</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p>	<p><u>FrontEnd Development with ReactJS</u></p> <p>Session 3 & 4</p>
7	REACT – TL7	<p>All the topics as listed below from <i>Session 5</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 5 – ReactJS Router</u></p> <ul style="list-style-type: none"> ➤ Explain about the ReactJS router and its basic components ➤ Explain the difference between single and multi-page applications ➤ Explain the advantages and drawbacks of single and multi-page applications 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 5 XP – Session 5 TG – Session 5</p>

Session No.	Session Title	Session Details	Deliverables' Mapping
	S2	All the Assignments from <i>Session 4</i> and <i>Session 5</i> of <i>FrontEnd Development with ReactJS</i> course should be solved in this session.	<u>FrontEnd Development with ReactJS</u> (OnlineVarsity) Session 4 & 5
8	REACT – TL8	All the topics as listed below from <i>Session 6</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session. <u>Session 6 – Styling React Elements</u> <ul style="list-style-type: none"> ➤ Explain inline, internal, and external styles ➤ Explain the different styling methods in ReactJS ➤ Illustrate the usage of different styling methods 	<u>FrontEnd Development with ReactJS</u> SG – Session 6 XP – Session 6 TG – Session 6
9	REACT – TL9	The Try It Yourself questions from <i>Session 5</i> and <i>Session 6</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.	<u>FrontEnd Development with ReactJS</u> Session 5 & 6
	S3	All the Assignments from <i>Session 6</i> of <i>FrontEnd Development with ReactJS</i> course should be solved in this session.	<u>FrontEnd Development with ReactJS</u> (OnlineVarsity) Session 6
10	REACT – TL10	All the topics as listed below from <i>Session 7</i> of <i>FrontEnd Development with ReactJS</i> book should be covered in this session. <u>Session 7 – ReactJS Component Lifecycle</u> <ul style="list-style-type: none"> ➤ Explain different phases of the ReactJS component ➤ Explain how to manage lifecycles using the useEffect hook ➤ Illustrate the implementation of 	<u>FrontEnd Development with ReactJS</u> SG – Session 7 XP – Session 7 TG – Session 7

Session No.	Session Title	Session Details	Deliverables' Mapping
		useEffect in apt scenarios	
11	REACT – TL11	<p>All the topics as listed below from Session 8 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.</p> <p><u>Session 8 – Creating a CRUD Application Using ReactJS Forms</u></p> <ul style="list-style-type: none"> ➤ Explain CRUD ➤ Illustrate the development of a simple CRUD application using ReactJS forms ➤ Illustrate the development of a complex CRUD application using ReactJS forms 	<p><u>FrontEnd Development with ReactJS</u></p> <p>SG – Session 8 XP – Session 8 TG – Session 8</p>
	S4	All the Assignments from <i>Session 7</i> of <i>FrontEnd Development with ReactJS</i> course should be solved in this session.	<p><u>FrontEnd Development with ReactJS (OnlineVarsity)</u></p> <p>Session 7</p>
12	REACT – TL12	The Try It Yourself questions from Session 7 and Session 8 of <i>FrontEnd Development with ReactJS</i> book should be covered in this session.	<p><u>FrontEnd Development with ReactJS</u></p> <p>Session 7 & 8</p>
	S5	All the Assignments from <i>Session 8</i> of <i>FrontEnd Development with ReactJS</i> course should be solved in this session.	<p><u>FrontEnd Development with ReactJS (OnlineVarsity)</u></p> <p>Session 8</p>

5. Library References

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| ➤ The Road to Learn React: Your journey to master plain yet pragmatic React.js by Robin Wieruch |
| ➤ React and React Native: A complete hands-on guide to modern web and mobile development with React.js, 3rd Edition by Adam Boduch and Roy Derks |
| ➤ Beginning ReactJS Foundations Building User Interfaces with ReactJS: An Approachable Guide by Chris Minnick |

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