



# React JS for Beginners

## Virtual Instructor-Led Course

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## Course Overview

**React JS for Beginners** is a virtual Instructor-Led online course which is designed for web and mobile developers and software engineers who want to learn React JS to build interactive websites and mobile apps. By taking up this course, you'll have a solid understanding of React's fundamentals and will be able to build a wide array of rich, interactive web apps with the framework.

React JS course curriculum covers all the basics such as React components, React state & events, rendering lists, conditional content and styling. It also includes advanced concepts like debugging, Working with fragments, portals, redux, router, React hooks, deployment of React apps and other essentials.

By the end of this course, learners will be equipped with all the knowledge required to start their career as a Front End software developer in the IT industry.

## Course Objectives

After attending this course, learner's will be able to demonstrate the following skills:

- Learn how to use React components to create interactive interfaces.
- Learn how to build and compose reusable components.
- Learn how to connect to backend APIs with React apps.
- Learn how to build single page applications.
- Learn how to use JavaScript ES6 for developing React applications.
- Learn how to Create, build, and deploy react applications to the cloud.

## Why take up this course?

- The demand for Front End Developers is at an all-time high, and more than 80% of IT companies are looking for Front End Developers.
- The average starting salary of a Front End Developer is minimum INR 15L per year.
- People who have Front End Developer skills will have great demand in the IT industry. Our online instructor led training will help you learn these skills and hence upgrade your career.

## Who should attend this course?

This course caters to a wide audience, from those who are hoping to enter the IT industry to those who have already gained some experience and are aspiring to become web or mobile app developers.

- **Fresh graduates** who are intent on taking the plunge into the job market.
- **Front End / UI Developers, Mobile App Developers and others** who want to make a career shift towards UI development.

## What are the Prerequisites for this course?

To begin with the **React JS for Beginners** course, you do not need any prerequisites in specific as the course itself entails all the concepts right from the basics to the advanced level. However, having a fundamental idea or knowledge of the HTML, CSS, JavaScript and Web Application Development process or any programming language will be of added advantage for you to comprehend the concepts at ease.

Please note that the sessions will be conducted via google meet and require an Internet Connection and headset with microphone connected to your computer or laptop.

## Course Highlights

- Advanced Curriculum - **Designed by subject specialists** and reviewed by **industry experts**.
- Interactive Learning - **Engaging content, easy to learn with no prior experience** required.
- Discussion Forums - **Ask questions and engage** in discussions with instructors and other learners.
- Hands-on Lab Sessions - Practice **Labs** and Exam Preps are **available 24/7** for **hands-on** skill development.
- Real Life Case Studies - Learn about **use cases, solutions, challenges, best practices** and much more.

- Career Mentoring - Get **guidance** on your **professional development** and **career advancement**.
- Job Assistance - through our network of **450+ Hiring Partners** across Pan India.
- Flexible Scheduling - **Flexible batch timings** to suit your availability. Most classes are scheduled either on **weekends** or in the **evening hours**.
- 24/7 Technical Support - Get **24/7 technical support** to resolve all your technical queries even after you have completed the course.
- Lifetime Access - You get lifetime access to **course material** including presentations, videos etc.

## Course Features

<b>Virtual Online Instructor Led</b>	<b>24 hours Course Duration</b>	<b>Certificate of Completion</b>
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## Course Curriculum

### Module 1.0 : Introduction to React

- 1.1 : What is React?
- 1.2 : Why React?
- 1.3 : React version history
- 1.4 : React 16 vs React 15 features
- 1.5 : Installing Development tools
- 1.6 : Installing create-react-app package
- 1.7 : Understanding Project Structure
- 1.8 : Just React – Hello World
- 1.9 : Running the app
- 1.10 : Debugging first react app
- 1.11 : Understanding Round-Trip applications
- 1.12 : Understanding Single Page Applications

## **Practice Session : Hands-on Lab Skill Test**

### **Module 2.0 : HTML5 with CSS3 & Javascript**

- 2.1 : Overview of HTML
- 2.2 : Getting Started with HTML Code
- 2.3 : Important Components of HTML
- 2.4 : Text Formatting Tags
- 2.5 : Quotations
- 2.6 : Comments
- 2.7 : Links
- 2.8 : Images
- 2.9 : Tables
- 2.10 : Lists
- 2.11 : Attributes to Style HTML Elements
- 2.12 : Overview of CSS3
- 2.13 : Relationship Between HTML and CSS3
- 2.14 : How Does CSS3 Work?
- 2.15 : Syntax
- 2.16 : Different Methods to Integrate CSS with HTML
- 2.17 : Colors
- 2.18 : Backgrounds in CSS3
- 2.19 : Setting up Height and Width of an Element
- 2.20 : Box Model
- 2.21 : CSS Outline
- 2.22 : Text in CSS3
- 2.23 : Fonts
- 2.24 : Links in CSS3
- 2.25 : Lists in CSS3
- 2.26 : Tables in CSS3
- 2.27 : Responsiveness
- 2.28 : Position Property in CSS3
- 2.29 : Navigation Bars
- 2.30 : Dropdown
- 2.31 : Forms
- 2.32 : JavaScript Essentials
- 2.33 : DOM Scripting

## **Practice Session : Hands-on Lab**

## **Skill Test**

### **Module 3.0 : Understanding Bootstrap**

- 3.1 : Bootstrap Overview
- 3.2 : Structure of a Bootstrap-enabled Webpage
- 3.3 : Grids
- 3.4 : Typography
- 3.5 : Colors
- 3.6 : Images
- 3.7 : Jumbotron
- 3.8 : Alerts
- 3.9 : Buttons
- 3.10 : Button Groups
- 3.11 : Progress Bars
- 3.12 : Pagination
- 3.13 : Cards
- 3.14 : Navigation Menus
- 3.15 : Navigation Bar
- 3.16 : Forms
- 3.17 : Carousel
- 3.18 : Media Objects

### **Practice Session : Hands-on Lab**

## **Skill Test**

### **Module 4.0 : JSX and Virtual DOM**

- 4.1 : What is Virtual DOM
- 4.2 : Virtual DOM Pieces
- 4.3 : Using ReactElement
- 4.4 : JSX Creates Elements
- 4.5 : JSX Attribute Expressions
- 4.6 : JSX Conditional Child Expressions
- 4.7 : JSX Boolean Attributes
- 4.8 : Using logical operators
- 4.9 : Using Fragments

### **Practice Session : Hands-on Lab**

## **Skill Test**

### **Module 5.0 : About Components**

- 5.1 : Understanding Components
- 5.2 : Significance of component architecture
- 5.3 : Different Component Types
- 5.4 : Stateless Components
- 5.5 : Stateful Components
- 5.6 : Functional Components
- 5.7 : ES6 Classes
- 5.8 : Component Composition

**Practice Session : Hands-on Lab**

**Skill Test**

**Module 6.0 : Working with state and props**

- 6.1 : What is state and its significance
- 6.2 : Creating Stateful components
- 6.3 : Adding and Modifying State data
- 6.4 : Understanding Props
- 6.5 : Combining Javascript and Props to Render Content
- 6.6 : Using Function Props
- 6.7 : Passing data to component using props
- 6.8 : Using PropTypes
- 6.9 : Validating props using propTypes
- 6.10 : Supplying default values to props using defaultProps

**Practice Session : Hands-on Lab**

**Skill Test**

**Module 7.0 : Rendering lists**

- 7.1 : Using react key prop
- 7.2 : Using map function to iterate on arrays to generate elements

**Practice Session : Hands-on Lab**

**Skill Test**

**Module 8.0 : Event handling in React**

- 8.1 : Understanding Events
- 8.2 : Managing Event Propagation
- 8.3 : Understanding Synthetic event
- 8.4 : Passing arguments to event handlers

**Practice Session : Hands-on Lab**

**Skill Test**



## **Module 9.0 : Understanding component lifecycle and handling errors**

- 9.1 : Understanding Update Process
- 9.2 : Understanding Reconciliation Process
- 9.3 : Understanding List Reconciliation
- 9.4 : Explicitly Triggering Reconciliation
- 9.5 : Understand the Component lifecycle
- 9.6 : Using the Lifecycle methods
- 9.7 : Handle errors using error boundaries

### **Practice Session : Hands-on Lab**

#### **Skill Test**

## **Module 10.0 : Forms and Validation**

- 10.1 : Using Form Elements
- 10.2 : Validating Form Data
- 10.3 : Controlled components
- 10.4 : Uncontrolled components
- 10.5 : Building the custom component
- 10.6 : Separation of View and State
- 10.7 : Async Persistence
- 10.8 : Form Modules
- 10.9 : Understand the significance to default Value prop
- 10.10 : Using react ref prop to get access to DOM element

### **Practice Session : Hands-on Lab**

#### **Skill Test**

## **Module 11.0 : Context**

- 11.1 : What is context
- 11.2 : When to use context
- 11.3 : Multiple context provider
- 11.4 : Create Context
- 11.5 : ThemeContext.Provider
- 11.6 : ThemeContext.Consumer
- 11.7 : Reading context in class

### **Practice Session : Hands-on Lab**

#### **Skill Test**

## **Module 12.0 : Code-Splitting**

- 12.1 : What is code splitting
- 12.2 : Why do you need code splitting
- 12.3 : React.lazy
- 12.4 : Using Suspense Component
- 12.5 : Avoiding fallbacks
- 12.6 : Error Boundaries
- 12.7 : Route based Code Splitting
- 12.8 : Understanding Named Exports

**Practice Session : Hands-on Lab**

**Skill Test**

**Module 13.0 : Hooks**

- 13.1 : What are Hooks
- 13.2 : Why do you need Hooks
- 13.3 : Different types of Hooks
- 13.4 : How hooks map to Component Classes
- 13.5 : Using state and effect Hooks
- 13.6 : Rules of hooks
- 13.7 : Building custom Hooks
- 13.8 : Writing Tests for React Hooks

**Practice Session : Hands-on Lab**

**Skill Test**

**Module 14.0 : Routing with react router**

- 14.1 : What is URL Routing
- 14.2 : React Router Core Components
- 14.3 : Creating Routing aware components
- 14.4 : Configuring the Router
- 14.5 : Accessing Routing data in other components
- 14.6 : Understand routing in single page applications
- 14.7 : Working with BrowserRouter and HashRouter components
- 14.8 : Configuring route with Route component
- 14.9 : Using Switch component to define routing rules
- 14.10 : Dynamic routing using route params
- 14.11 : Working with nested routes
- 14.12 : Navigating to pages using Link and NavLink component
- 14.13 : Redirect routes using Redirect Component
- 14.14 : Using Prompt component to get consent of user for navigation

14.15 : Path less Route to handle failed matches

14.16 : Supporting authenticated routes

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 15.0 : Intro to Flux and Redux**

15.1 : Flux Overview

15.2 : Why Flux

15.3 : Flux Design Pattern

15.4 : Flux Implementations

15.5 : What is redux

15.6 : Why redux

15.7 : Redux principles

15.8 : Install and setup redux

15.9 : Creating actions

15.10 : Building the reducer

15.11 : Subscribing to the store

15.12 : Creating a data store

15.13 : Using the Data store in react application

15.14 : Expanding the data store

15.15 : Connecting Redux to React

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 16.0 : React Redux**

16.1 : What is React Redux

16.2 : Why React Redux

16.3 : Install and setup

16.4 : Presentational and Container components

16.5 : Generating containers with react-redux

16.6 : Action creators

16.7 : Redux form Component

16.8 : Connect the Store

16.9 : Understanding mapStateToProps and mapDispatchToProps usage

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 17.0 : Immutable.js**

17.1 : What is Immutable.js?

17.2 : Immutable collections

17.3 : List

17.4 : Map

17.5 : Set

17.6 : Lazy Seq

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 18.0 : Redux middleware**

18.1 : Why redux middleware

18.2 : Available redux middleware choices

18.3 : What is redux saga

18.4 : Install and setup redux saga

18.5 : Working with Saga helpers

18.6 : Sagas vs promises

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 19.0 : Unit Testing**

19.1 : Understand the significance of unit testing

19.2 : Understand unit testing jargon and tools

19.3 : Unit testing react components with Jest

19.4 : Unit testing react components with enzyme

**Practice Session : Hands-on Lab**

**Skill Test**

### **Module 20.0 : Webpack Primer**

20.1 : What is webpack

20.2 : Why webpack

20.3 : Install and setup webpack

20.4 : Working with webpack configuration file

20.5 : Working with loaders

20.6 : Working with plugins

20.7 : Setting up Hot Module Replacement

**Practice Session : Hands-on Lab**

**Skill Test**

## Module 21.0 : Isomorphic React

21.1 : What is server-side rendering (SSR)?

21.2 : Why Server side Rendering?

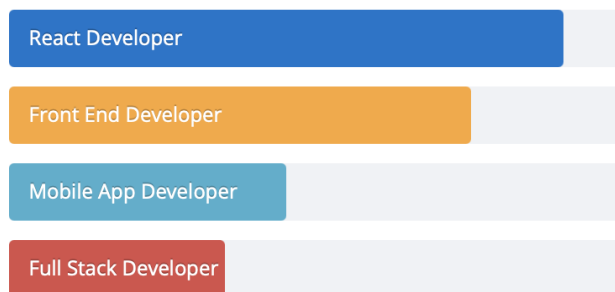
21.3 : Working with render To String and render To Static Markup methods

**Practice Session : Hands-on Lab**

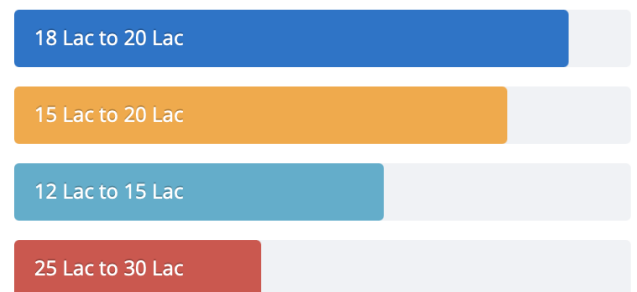
**Skill Test**

## Average Salary Trends

### Post Program Career Options



### Average Salary Trends



## Hiring Companies

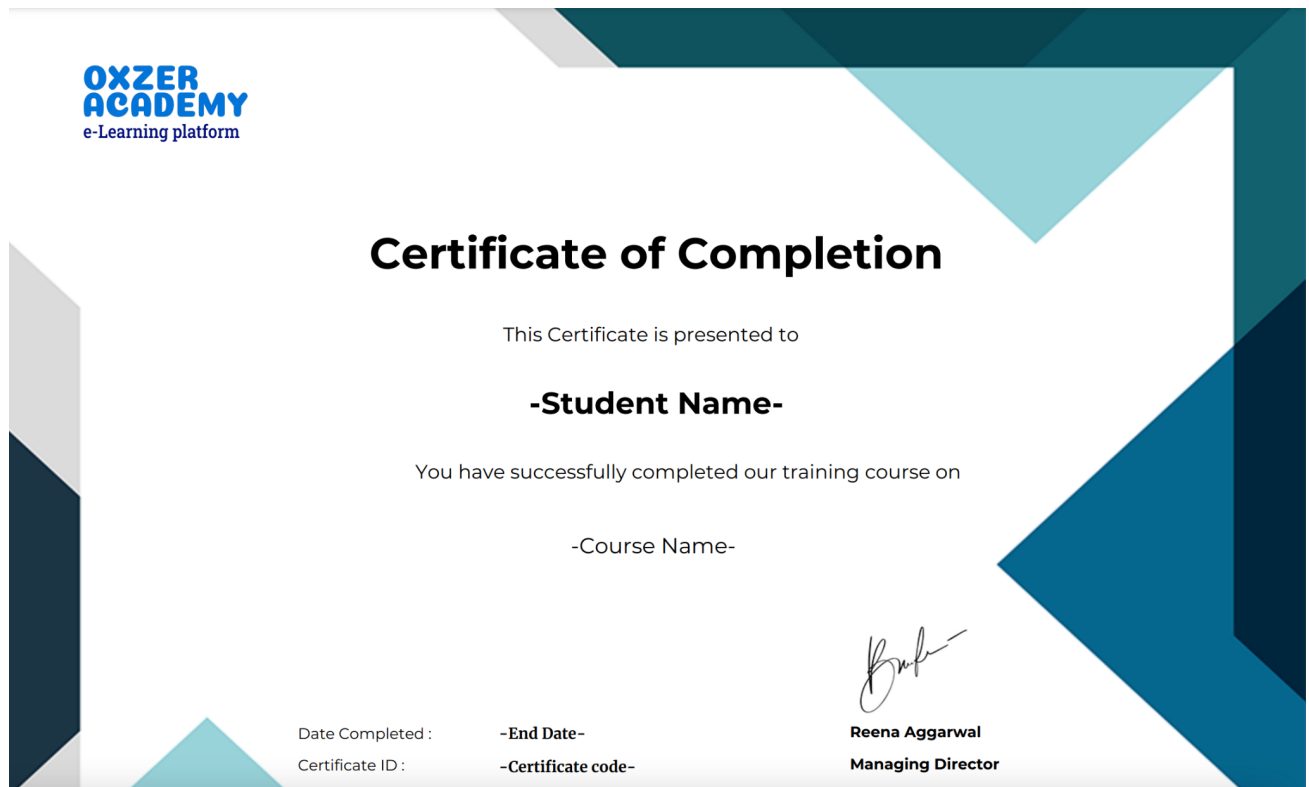


**Cognizant**



## Sample Certificate

After the completion of the course, you will get an industry recognized certificate from Oxzer Academy.



## Frequently Asked Questions

### What are the advantages of doing a course from Oxzer Academy?

The advantages of doing a course from Oxzer Academy are multifold.

- Our Instructors are professional trainers who have extensive technology and domain experience, including years of experience training & mentoring professionals in the industry.
- You get lifetime access to course material including presentations, videos etc.
- You get the industry recognised certificate from Oxzer Academy on your successful course completion.
- We give you an option to attend a free trial class before enrolling in the course.
- We provide 24 \* 7 online support to resolve all your technical queries even after you have completed the course.

- We provide flexible batch timings to suit your availability. Most classes are scheduled either on weekends or in the evening hours, so that the class timings do not overlap with your other work during the day time.
- In case you miss any class, in that case you can go through the recorded videos of that lecture. Also there is an option to attend the lecture in a different batch if there is a seat available.
- Every module in the course will be followed with a quiz to assess your learning.
- We give you extensive time to complete the hands-on labs and assignments.
- We have smaller batches with a limited number of people in a single batch to ensure quality learning.

### **Is this a Virtual Instructor Led training or Classroom training?**

This is a Virtual Instructor Led training (VILT) where an instructor will facilitate a training session for a group of learners over a virtual setting (online mode). Similar to traditional instructor-led classroom training, VILT is synchronous, collaborative, and happens in real-time.

### **How many learners will be there in a single batch?**

This is a virtual online Instructor Led course. There will be a maximum of 20 learners in a single batch.

### **Does the course include hands-on labs?**

Yes, the course curriculum includes both hands-on lab and theory sessions as well. The hands-on labs will be continuously monitored by our instructor and you get sufficient time to complete your labs. It is mandatory for the learners to attend both the labs as well as theory sessions for successful course completion.

### **Will the lab access available after the course completion?**

All our labs are provisioned in the cloud. So you can only access the labs during the duration of the course. Ideally, once you have completed your course, your lab access will be removed as well. But in exceptional cases where you need extension for an additional time, you can drop an email to [helpdesk@oxzeracademy.com](mailto:helpdesk@oxzeracademy.com) or open a support ticket with our helpdesk regarding this. Once your request has been considered and approved by management, you will receive an email notification within 48 hours from Oxzer Academy providing you with the status on the lab extension. You can request for extension only once.

### **How is an online class typically structured?**

The online classes will happen on google meet or similar communication platform. You will be notified with the login details before every class.

### **Is there any trial class provided by the Instructor?**

Yes, you are eligible for one free trial class. You can attend your first class as a trial class. Please note that there is only one trial class provided for each course.

### **How many trial classes are provided under this course?**

There is only one trial class provided under this course.

### **Do learners need to attend the classes at a specific time?**

Yes, classes are structured in batches and each batch has a specific time. You can enrol yourself in a batch which suits your availability. If you are not able to attend the lecture due to any specific reason then you can go through the recorded videos of that lecture. Also there is an option to attend the lecture in a different batch if there is a seat available.

### **Is Certification exam fees included in the course fees?**

No, certification exam fee is not included in the course fees. If you wish to appear for the certification exam after course completion, then you need to enrol separately for the certification exam. Please note that any payments which are done on the third party websites, then the terms and condition, refund policy etc of the third party website will be applied.

### **Will there be any refund if I cancel my enrollment in between the courses?**

No, there will be no refund in such cases. Please read the Refund policy carefully before enrolling in the course. <https://www.oxzeracademy.com/refund-policy/>

### **How do I get in touch with Oxzer Academy customer support?**

We have a 24/7 help desk to support our learners, instructors, customers and partners. You can raise a support ticket to our help desk from this page <https://www.oxzeracademy.com/submit-ticket/> Additionally, you can find our contact information on our website <https://www.oxzeracademy.com>

### **What is Oxzer Academy's response to the posted complaint?**

Oxzer Academy will review the complaint within one hour of submission and will also take necessary action within 24 hours on the posted complaint if required.



### **How do learners and instructors interact in an online class?**

There are various channels through which the learners and instructor interact in an online class. Learners can post his question in the google meet or similar communication platform chat and the instructor will respond. Then the learner can raise his hand, unmute himself and can directly ask questions to the Instructor. Also, towards the end of every lecture, there will be a query session for 15 minutes in which the learner can ask any doubt from the Instructor.

### **Do online classes have in-person components?**

No, all our classes will be delivered in an online mode only. In case you require a hard copy of your course completion certificate, it will be courier to your communication address.

### **What if I have queries after course completion?**

We provide 24/7 online support to resolve all your technical queries even after you have completed the course. Your access to our Technical Support is for a lifetime. Our support team will help you in resolving queries, during and after the course. You can raise a support ticket to our technical support from this page <https://www.oxzeracademy.com/submit-ticket/>

### **Do we get any certificate after completion of the course?**

Yes, except for courses listed under academic category, you will get a certificate after you complete the course successfully.

### **Where can I find the course duration?**

You can find the course duration on the course details page.

### **What are typical assignments in online classes?**

Online course assignments depend largely on the course you have enrolled into. But in general, learners should expect assignments similar to those in-person programs. An assignment may require you to work either individually or in groups with other learners on a project. Depending on your course, you may also be required to prepare and give remote presentations.

### **How do learners take exams in online classes?**

Exams will be conducted online after all the modules in the course are completed. It is mandatory to switch on the camera while giving a Test or Exam and will be strictly

monitored by the instructor. You should score at least 60% marks in the qualifying exam to complete the course successfully and receive your course certificate.

### **What should learners know before enrolling in an online course?**

Before enrolling in an online course a learner should go through all the details regarding the course, prerequisite etc. for which they are enrolling and must read all terms and conditions of Oxzer Academy before enrolling in the course.

### **Do you also provide job placement assistance?**

Yes, our placement team will assist you in all possible ways to find a right job if you are in need of the same. The final decision on hiring will always be based on your performance in the interview and the requirements of the recruiter. Moreover, Oxzer Academy courses are well recognized in the industry as it is a testament to the intensive and hands-on learning you have gone through and the real life use cases you have learned during the course.

### **How soon after signing up would I get access to the Learning Content?**

Once you enrol to the course, the LMS access will be instantly provided to you and will be available for lifetime. You will be able to access the complete set of previous class recordings, PPTs, PDFs, assignments etc. Moreover the access to our 24x7 support team will be granted instantly as well.

### **Is the course material accessible to the learners even after the course training is over?**

Yes, the access to the course material will be available for lifetime once you have enrolled into the course.

### **Where can I read the Terms and Conditions of Oxzer Academy?**

You can read the complete set of Terms and Conditions for this program at <https://www.oxzeracademy.com/terms-and-conditions/>

## About Oxzer Academy

Oxzer Academy is one of the leading e-learning platforms with more than 1 million learners across 50+ countries. We provide virtual instructor led courses in over 18 categories. Apart from this we also provide corporate training for organisations to transform their workforce by upskilling them.

Our courses are delivered by subject matter experts from top organisations who have more than 15+ years of relevant industry experience training & mentoring professionals in the industry.

## Contact Us

**OXZER SOFTWARE LABS PVT. LTD.**

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India**

**If you have any further queries or just want to have a conversation with us,  
then give a missed call on any of this number.**

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