

**PROFESSIONAL TRAINING REPORT**  
**At**  
**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**(DEEMED TO BE UNIVERSITY)**

Submitted in partial fulfillment of the requirements for the  
award of Bachelor of Engineering Degree in

**Information Technology**

By  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**SCHOOL OF COMPUTING**  
**SATHYABAMA INSTITUTE OF SCIENCE**  
**AND TECHNOLOGY**

**(DEEMED TO BE UNIVERSITY)**  
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**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**BONAFAIDE CERTIFICATE**

This is to certify that this Project Report is the bonafide work of **Arunachalam R**  
(Reg. No: 39120014) who carried out the project entitled “**E-commerce Application**  
**Using react js** ” under my supervision from March 2022 to April 2022.

**Internal Guide**

**Dr. J. JABEZ , M.E., Ph.D.,**

**Head of the Department**

**Dr. R. SUBHASHINI, M.E., Ph.D.,**

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Submitted for Viva voce Examination held on \_\_\_\_\_

**Internal Examiner**

**External Examiner**

## **DECLARATION**

I, **Arunachalam .R** (Reg.No.39120055) here by declare that the Project report entitled "**E-commer Application using react js**" done by me under the guidance of the **Dr. J. Jabez, M.E., Ph.D.** ,is submitted in partial fulfillment of the requirements for the awardof Bachelor of degree in Information Technology.

**DATE:**

**PLACE:**

**SIGNATUREOF THE CANDIDATE**

## **ACKNOWLEDGEMENT**

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr.J.JABEZ , M.E., Ph.D., , School of Computing** and **Dr.R.SUBHASHINI, M.E.,Ph.D., Head of the Department, Dept. Of Information Technology** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr. J.Jabez , M.E., Ph.D.** for her valuable guidance, suggestions, and constant encouragement paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **DEPARTMENT OF INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

## TRAINING CERTIFICATE



## **E-COMMERCE APPLICATION**

- **Ecommerce or electronic commerce actually means the use of an electronic medium for commercial transactions, but it is commonly used to refer to selling products and services over the internet to consumers or other businesses.**
- **According to another definition, ecommerce refers to the sharing of business information, maintenance of business relationships and conducting business transactions with the help of computers that are connected to a telecommunication network, and without the use of paper documents.**

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|     |   |                        |
|-----|---|------------------------|
| App | - | Application            |
| CSS | - | Cascading Style Sheets |

# 1.INTRODUCTION

## ReactJS:

ReactJS tutorial provides basic and advanced concepts of ReactJS. Currently, ReactJS is one of the most popular JavaScript front-end libraries which has a strong foundation and a large community.

ReactJS is a **declarative, efficient**, and flexible **JavaScript library** for building reusable UI components. It is an open-source, component-based front-end library which is responsible only for the view layer of the application. It was initially developed and maintained by Facebook and later used in its products like WhatsApp & Instagram.

The main objective of ReactJS is to develop User Interfaces (UI) that improves the speed of the apps. It uses virtual DOM (JavaScript object), which improves the performance of the app. The JavaScript virtual DOM is faster than the regular DOM. We can use ReactJS on the client and server-side as well as with other frameworks. It uses component and data patterns that improve readability and helps to maintain larger apps.

We will be following the below steps for creating our application:

### Creating the project:

We will start by creating a new react project using the create-react-app tool. You can use the following command for creating one with the desired name. Please ensure that Node and npm are installed on the system.!

### How to Set Up a React Project:

Creating a React project. We're going to use create-react-app to get us off the ground quickly. Fire up a terminal and type: `npx create-react-app movie-app`  
`npm i react-youtube , npm .`

### React Environment Setup

Pre-requisite for ReactJS

1. NodeJS and NPM
2. React and React DOM

There are two ways to set up an environment for successful ReactJS application. They are

1. **Using the npm command** (npm install react-scripts --save)
2. **Using the create-react-app command** (create-react-app react-project )

### **Role of CSS, JAVASCRIPT, REACT JS:**

- CSS is used for defining the styles for web pages. It describes the look and formatting of a document which is written in a markup language. It provides an additional feature to HTML. ...
- CSS helps us to control the text color, font style, the spacing between paragraphs, sizing of columns, layout designs, and many more.

- CSS provides these capabilities through a technical model based on a hierarchical scope of effect, the separation of style from content, and a well-defined set of published standards.
- JavaScript is a dynamic programming language that's used for web development, in web applications, for game development, and lots more.
- It allows you to implement dynamic features on web pages that cannot be done with only HTML and CSS.
- React is a declarative, efficient, and flexible JavaScript library for building user interfaces. It lets you compose complex UIs from small and isolated pieces of code called “components”.
- The main objective of ReactJS is to develop User Interfaces (UI) that improves the speed of the apps. It uses virtual DOM (JavaScript object), which improves the performance of the app. The JavaScript virtual DOM is faster than the regular DOM.
- We can use ReactJS on the client and server-side as well as with other frameworks. It uses component and data patterns that improve readability and helps to maintain larger apps.

## Requirements of Application:

- a) Create a workspace with VS Code
- b) Design the general layout with HTML & CSS
- c) Create the required components with React JS.

In React application, there are several files and folders in the root directory. Some of them are as follows:

1. **node modules:** It contains the React library and any other third party libraries needed.
2. **public:** It holds the public assets of the application. It contains the index.html where React will mount the application by default on the `<div id="root"></div>` element.
3. **src:** It contains the App.css, App.js, App.test.js, index.css, index.js, and serviceWorker.js files. Here, the App.js file always responsible for displaying the output screen in React.
4. **package.json:** It holds various metadata required for the project. It gives information to npm, which allows to identify the project as well as handle the project's dependencies.

# E-COMMERCE APPLICATION

## **AIM:**

The aim to create a E-commerce application using ReactJS.

## **PROJECTSCOPE:**

Web applications have become the primary necessity for modern consumers. They help our customers to get their necessary products or services in a short time. The incorporation of technology in our day-to-day services like paying bills to booking cabs involves complex procedures and innumerable iterations to serve customers efficiently. As on-demand apps offer the comfort to get products delivered at the doorsteps, people need not have to commute to buy food, groceries, clothes, and other commercial necessities. Technology has made it possible for people to get their necessities with a few simple taps and swipes on their smartphones.

## 2. SYSTEM SPECIFICATION

### HARDWARE REQUIREMENT

- ☐ RAM: 4GB
- ☐ Processor Intel Core i3 and above

### SOFTWARE REQUIREMENT

- ☐ Front-end: ReactJS and TypeScript

### TECHNOLOGY USED

I have built this project using the following tools & techniques:

- React.JS
- JavaScript.
- CSS

This Movies and TV Series application has following features in it:

- The first step is to code for the desired pages for the OTT platform i.e., Visual Studio Code.
- In this website the home page contains the categories such as Login, Trending, Movies, TV series, Search
- The user can login and personalize his/her genre of interest.
- The rating is displayed for each movie to help the user watch the best movie.
- Facility to scroll to 'n' number of pages and explore all the genres.
- With a click on the caption of the page the user is easily guided back from the bottom of the page from the top.
- Using the search option, the user can search a movie of any language and can view list of movies related to the search name.

- With this binge-watching app one can watch the trailer of any movie of their interest and decide if it is worth the watch.
- This app helps a movie lover to know all the details of the movie.
- The ratings displayed for each movie guides the user to watch the best one.
- The code is done from the scratch and the layout is made using frontend languages.

### **BENEFITS OF USING THIS WEBSITE:**

- Faster buying process. Customers can spend less time shopping for what they want. ...
- Store and product listing creation. ...
- Cost reduction. ...
- Affordable advertising and marketing. ...
- Flexibility for customers. ...
- Product and price comparison. ...
- No reach limitations. ...
- Faster response to buyer/market demands

### **3. SUMMARY AND CONCLUSIONS**

#### **SUMMARY:**

- With this binge-watching app one can watch the trailer of any movie of their interest and decide if it is worth the watch.
- This app helps a movie lover to know all the details of the movie.
- The ratings displayed for each movie guides the user to watch the best one.
- The code is done from the scratch and the layout is made using frontend languages.

#### **CONCLUSIONS:**

- The front-end languages such as CSS, React JS and MaterialUI are becoming one among the emerging languages.
- In today's world, the web development technology is an emerging technique which helps in many real time applications and saves people time and efforts.
- On this account this binge-watching app is developed to entertain the users.

#### **FUTURE SCOPE:**

Netflix, Inc. is one of the best examples regarding commercial applications for Video Streaming. With millions subscribing to the service all over the world, the company has found a way to capitalize its services using its title stock and outsourced infrastructure

## REFERENCES

1. Clever Programmer-YouTube
2. Sonny Sangha-YouTube

