

REACT-BASED RECRUITER DASHBOARD

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Abstract- React JS is JavaScript library created to design wealthy UI's. It is one of the popular frontend library among the others. It joins with 'View' concept from MVC model (Model-View-Controller). React JS is supported by Facebook, Instagram and community of frontend designers and organization. React JS is rising as one of the speediest and easy frontend library to be utilized in web applications as it has completely component based architecture. The reason behind this paper is to grandstand how and why React JS is developing as one of the finest open sourced JavaScript library.

Indexed Terms- React JS, Frontend Development, MVC model, Web application development.

Unix and others. To develop any React JS application, you need platforms like Node JS & NPM. To install Node JS and NPM package manager, visit this link: <https://nodejs.org/en/download/> React JS version 17.0.2 came out on March 22, 2021. Here are some steps to install and create a react application:
1. To install React, open a command window. Use this command: `npm install create-react-app`
2. To create a ReactJS project, type this command: `npx create-react-app (put your application name here)`
3. To run the project use this command: `npm start`
NPM, a package manager, allows the server to run the application at the default address: `http://localhost:3000`.

2. APPLICATIONS OF REACT JS

1. INTRODUCTION

React JS is an open-source JavaScript library to build UIs for web applications. Jordan Walke, a Software Engineer at Facebook, created React JS in 2011, but it became available to the public in May 2013. React JS aims to deliver the best rendering performance possible. Its power stems from its focus on individual components. Developers find it easy to design rich UIs using reusable components. React JS makes up the View part of the M-V-C (Model-View-Controller) model. React JS uses one-way data flow, which makes it simpler than traditional data binding. React uses a virtual DOM, which allows for straightforward programming and faster execution.

1.1 INSTALLATION

You can install React JS on various operating systems such as Macintosh, Microsoft Windows,

React JS has many uses as a tool to create interactive rich, and strong UI's.

A. Easy creation of dynamic applications React JS needs less coding and gives more functionality which helps developers to create dynamic web applications with less effort.

B. Open-source library React JS's open-source JavaScript library is one reason why React JS is becoming the fastest growing JS library among frontend developers and companies.

C. Use of Re-usable components React JS centers on components. Components are the key part of any React JS application. An application can have many components that developers can re-use to cut down on development time.

D. Simple debugging tools Facebook has released a Chrome extension to debug React applications, which leads to faster debugging of React applications

3. ARCHITECTURE

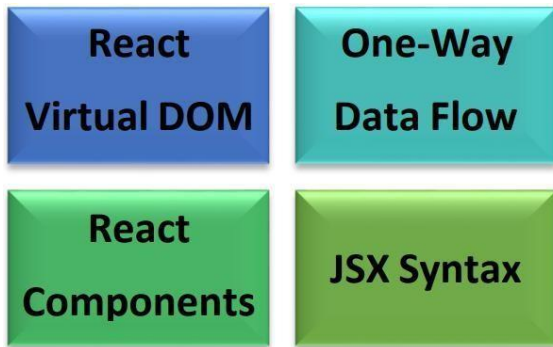


Figure 1. Architecture of React JS

Above are the four main aspects of ReactJS:

1. **React Virtual DOM** The ‘ ‘ Virtual document object model’ ’ is one of the primary concepts of React JS. It is little similar to the DOM created by the browser but limited to this, the crucial difference of storing it in the memory set it apart from a normal computation. At point when alterations are necessary to be made in page content, They are reflected to the memory residing virtual DOM. first; then that a diff ()algorithm compares the two DOM i.e. , the virtual DOM and the browser DOM then modifications made are mirrored back to the program itself DOM. Which is a lot less than refreshing the full DOM, yes. This give further boosting the application principally when a massive directions and instructions where modifications are to be done for data.

2. **One-Way data flow** React JS is designed to have a one way data flow i. e. , downstream is allowed and supported. Uni- directional flow makes certain that the details move only one way. Throughout the application, there are features which provide more control. between the states and the models implemented in an application. Since there is unidirectional flow, it will also guarantee that the architecture of The concept of the application is less complicated and comprehensible as compared to its classification feature. It does not affect other columns and update in the view part.

3. **React Components** is small UI (User Interface) elements that This transformation allows them to provide data to View, which can also evolve over the period of time. These are reusable components which are bind collectively used to construct the complete User Interface of the entire application. Components allow let developers to divide the UI

into different segments And on how to design and build UI most effectively. They are similar to JavaScript functions; they do the same job but in a different setting and methodology. They accept input called props and provides out the React elements This aspect can be viewed as a type of opposite or negative approach to the direct (what one can see on the screen).

4. **JSX Syntax** The term JSX is an acronym for JavaScript XML. It is a syntax extension in JavaScript. So, JSX is advisable to be used with React JS to design and build User Interface. JSX is faster, safer and easier since, JSX source code is If you will compile it to JavaScript, it shows a very optimized result. In this case, let us compare a piece of code to its equivalent in relative to library source code. JavaScript, the quality of application is way higher when developed with JSX.

4. IMPLEMENTATION

React JS and Angular JS are widely accepted currently, and It should be noted that new solutions based on the latest JavaScript technologies are applied here. develop single-page applications. Here are the few distinctions regarding the fundamentals of React JS and Angular JS.

Technology	Angular JS	React JS
Developed By	Google	Facebook
Initial Release	October 2010	March 2013
Latest Version	1.8.2 / 21 October 2020	18.3.1 / 1 April 2024
Languages used	JavaScript,HTML	JavaScript,JSX
Data-Binding	Two-way data binding	One-way data binding

DOM	Regular DOM	Virtual DOM
Dependencies	Managed automatically	Need third party tools
Performance	Slow	Fast
Best For	Single page applications which update a single view at a time.	Single page application that update multiple views at a time

Tabel 1. Angular JS vs React JS

Candidate Application form: The section of the Candidate Application Form in the recruiter dashboard is designed for the purpose of making more organized the management of job applications. This section gives a detailed preview to recruiters with respect to each candidate's submitted application.

Figure 3. Candidate Application form

Job openings section: The recruiter dashboard's Job Openings section lets recruiters handle job listings. It has an influence on how they work with postings.

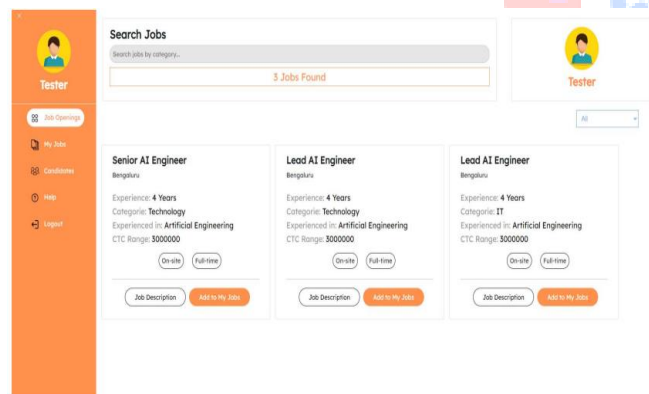


Figure 1. Dashboard

Candidate section: The section of the Candidate Application Form in the recruiter dashboard is designed for the purpose of making more organized the management of job applications. This section gives a detailed preview to recruiters with respect to each candidate's submitted application.

ID	Name	Location	Applied for	Experience	Remarks	Expected Salary	Status	Action
1	test	Bangalore, Bangalore North, Bangalore Urban, Karnataka, India	Senior AI Engineer	2	Processing	2	Processing	View Details
2	test	test	Lead AI Engineer	1	Processing	1	Processing	View Details
3	test	Gov. India	Senior AI Engineer	2	Processing	1	Processing	View Details
4	test	location	Technology	1	Processing	1	Processing	View Details
5	test	Gov. India	Lead AI Engineer	2	Processing	2	Processing	View Details

Figure 4. Candidate section

Job Description section: Recruiter dashboard is further divided into Job Description section which serves the purpose of furnishing details about each job vacancy.

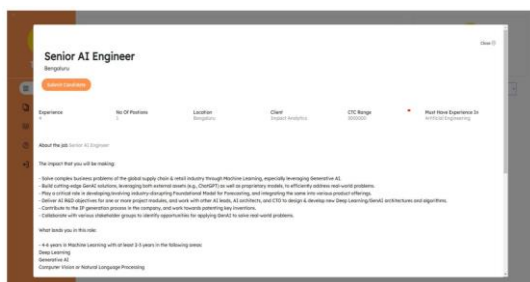


Figure 2. Job Description

Candidate Details section: The section is used to see the details of the candidate that are submitted by the recruiter and keep a track of the candidate.

Figure 5. Candidate Details section

Help & Support form: The Help and Support form on your recruiter dashboard is designed to provide you with efficient assistance and resolve any issues you might encounter. This user-friendly feature allows you to report problems, ask questions, and request support directly from our team.

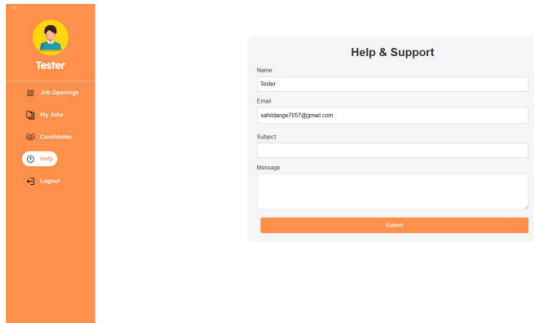


Figure 6. Help & Support

5. LIMITATIONS

Although React JS passes through few Impediment while coming as the finest JavaScript library

A. React only work with the View part of MVC so we Still, need other tooling to complete the back end development too.

B. Regarding JSX, aspiring developers have the following cases to complain. used in the learning phase of programming and is considered as barrier.

C. Responds to environment changes with high speed that consequently developers often feel hard pressed to adopt to the new adopt alter and reiteratively execute them. Developer's should always hone their competencies and on the same note, with modification done using the integrated development environment of React JS.

6. CONCLUSION

Therefore, the aim of this paper is to demonstrate how and why Concerning the popular front-end JavaScript frameworks and libraries, React JS library is a current trend among developer's. community and organizations. Facebook developed Initially developed for their own use and at some later date released to the public. It in 2013. Since then, well within a very short time, React JS has worked wonders in giving phenomenal reception among the developers and tech industry.

Of course there are few limitations that React JS has but still it is quite popular and most importantly useful. revolutionary. The abolition of feudal lords benefits the victims of oppression, and it has introduced a new dimension in the web application development. Clients requirements are upgrading rapidly and advancing some is ReactJS. React JS optimizes the application's speed and it can be observed that React JS is also broader in scope as well as worth the efforts. React JS has it all that can satisfy the requirements of today's world. Thus, one can assert that The given technology, React JS, can influence modern day web development.

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