Report On

Random Quote Generator

Submitted in partial fulfillment of the requirements of the Course project
in Semester V of Third Year Artificial Intelligence and Data Science

by

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CERTIFICATE

This is to certify that the project entitled "**Random Quote Generator**" is a bonafide work of " **Shruti Pawar (Roll No. 41), Anaum Sharif (Roll No. 50), Amulya Shetty (Roll No. 52)**" submitted to the University of Mumbai in partial fulfillment of the requirement for the Course project in Semester V of Third Year Artificial Intelligence and Data Science Engineering.

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Abstract

This mini-project revolves around the development of a user-friendly web-based Random Quote Generator application, employing the power of React and JavaScript. The primary aim is to craft an intuitive and visually pleasing user interface that enables users to seamlessly add, edit, and remove tasks, thereby enhancing their task management experience. Dynamic task management forms the project's core, facilitated by React's component-based structure, ensuring real-time task updates and seamless state management. The application offers users the capability to organize tasks, set due dates, and establish priorities, aiding in the efficient handling of daily responsibilities. Moreover, cross-device compatibility is a crucial focus, guaranteeing that the web app functions seamlessly on a variety of devices. Data persistence is achieved through local storage or other storage mechanisms, enabling users to access their to-do lists across sessions. Throughout this mini-project, an emphasis is placed on code modularity and maintainability, equipping developers with essential skills for building web applications with React and JavaScript, while delivering a reliable tool for effective task management to end-users.

Acknowledgement:

The completion of this project would not have been possible without the support and assistance of several individuals and organizations. We would like to extend our heartfelt gratitude to the following people and groups for their contributions to this project.

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Finally, we would like to thank the many other professors who consulted us during the course of this project. Their contributions were invaluable in helping us to gain a deeper understanding of the field and to develop our own ideas and approaches.

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Thank you all very much.

1. Introduction

1.1 Introduction

A random quote generator built with React is a fun and interactive web application that provides users with inspirational, humorous, or thought-provoking quotes each time they click a button or refresh the page. This project leverages React, a popular JavaScript library for building user interfaces, to create a dynamic and engaging user experience. This project will involve fetching a collection of quotes, displaying them randomly, and allowing users to generate new quotes at the click of a button.

1.2 Problem Statement &

Objective Problem Statement:

A random quote generator is a program or tool designed to produce and display random quotations or phrases from a predefined collection. These quotes can cover a wide range of topics, including wisdom, inspiration, humor, or any other theme depending on the purpose of the generator. The generator typically works by storing a database or list of quotes and using a randomization algorithm to select and display one at a time. This can be implemented in various contexts, including websites, mobile apps, or even physical devices. This mini-project addresses the challenge of creating a Simple Randon Quote Generator Web Application using React. Designing a random quote generator involves selecting and curating a diverse collection of quotes, developing the software or code to generate random selections, and presenting the quotes in an appealing and user-friendly manner. Developers might also consider features like filtering by category or author, allowing users to submit their own quotes, or incorporating multimedia elements to enhance the user experience. Overall, a random quote generator is a simple yet effective way to deliver nuggets of wisdom, inspiration, or entertainment to users, adding a touch of serendipity to their digital experience. This mini-project aims to create a versatile application that caters to the needs of users from all walks of life, helping them tackle their daily responsibilities with ease.

Objectives:

- Learn and Practice React: Gain hands-on experience with React, one of the most popular JavaScript libraries for building interactive user interfaces. By creating a Random Quote Generator, you will reinforce your understanding of React's core concepts such as components, state, and props.
- Dynamic Content: Create a web application that dynamically generates random quotes each time the user interacts with it. This introduces users to unpredictable and engaging content, encouraging them to revisit the application.
- User Interaction: Develop a user-friendly interface with features like a "Generate Quote" button, allowing users to trigger the display of new quotes. This objective enhances user engagement and encourages user interaction with the application.
- Quotes Database: Choose an appropriate method to store or source a collection of quotes. You can use a local array of quotes, consume a public API for quotes, or integrate a database. This objective introduces data management concepts in React.
- Styling and Design: Implement a visually appealing user interface by utilizing CSS and React's component styling options. A well-designed interface enhances user experience and makes the application more attractive.
- Randomization: Ensure that the quotes are selected at random from the database. This objective adds an element of surprise and intrigue, as users never know which quote they will get next.
- Shareability: Optionally, implement features that allow users to share their favorite quotes on social media platforms or copy them to the clipboard. This adds a social and practical aspect to the application.

1.3 Scope

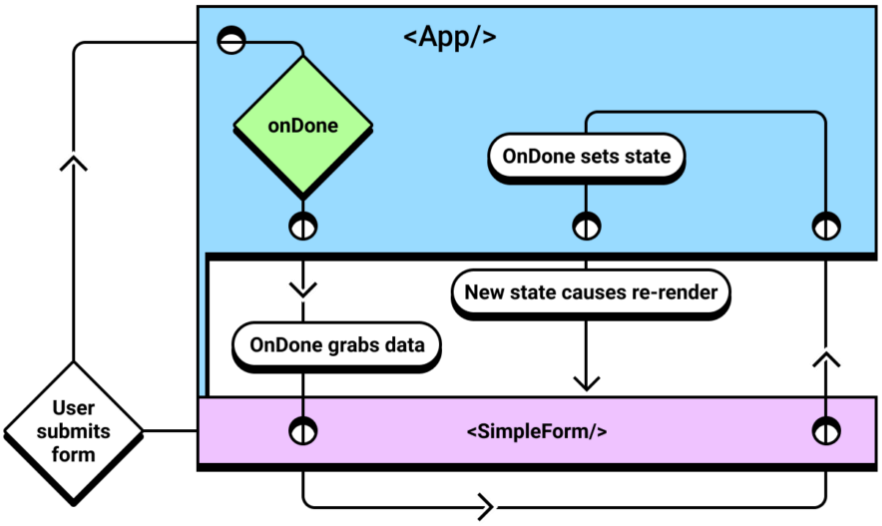
- User interface for displaying quotes.
- "Generate Quote" button.
- Optional sharing and copying features for quotes.
- Data management for storing and fetching quotes.
- Stylish and responsive user interface.
- Testing and debugging for reliability.
- Deployment for public access.
- Code comments and a detailed README.
- Out of scope: user accounts, advanced features like daily quotes.

2. Proposed System

2.1 Introduction:

This React-based web application offers a simple yet engaging experience, providing users with a diverse array of inspiring or thought-provoking quotes. With just a click of a button, users can access a randomly selected quote, making it a delightful source of daily inspiration and wisdom.

2.2 Architecture /Block Diagram



Code:

HTML:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta
      name="description"
      content="Web site created using create-react-app"
    />
    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
    <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
    <title>React App</title>
  </head>
  <body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
  </body>
</html>
```

CSS:

```
body {
```

```
  font-family: Arial, sans-serif;
  background-color: #f0f0f0;
  margin: 0;
  display: flex;
  align-items: center;
  justify-content: center;
  min-height: 100vh;
}

.container {
  text-align: center;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.2);
  padding: 20px;
  max-width: 400px;
}

h1 {
  color: #333;
  font-size: 24px;
  margin-bottom: 20px;
}

button {
```

```
  background-color: #007BFF;
  color: #fff;
  border: none;
  padding: 10px 20px;
  margin-top: 20px;
  border-radius: 5px;
  cursor: pointer;
  transition: background-color 0.3s;
}

button:hover {
  background-color: #0056b3;
}

.quote-box {
  border: 1px solid #ccc;
  background-color: #fff;
  padding: 20px;
  border-radius: 10px;
  margin-top: 20px;
}

.quote-box p {
  font-size: 20px;
  color: #333;
```

```
  line-height: 1.4;
}

input[type="text"] {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 5px;
  margin-top: 20px;
}
```

React:

```
import React, { Component } from 'react';
import './index.css';
import axios from 'axios';
class App extends Component {
  constructor() {
    super();
    this.state = {
      quote: '',
    };
  }


  fetchQuote = () => {
    axios
```

```
      .get('https://api.quotable.io/random')
      .then((response) => {
        this.setState({ quote: response.data.content });
      })
      .catch((error) => {
        console.error('Error fetching quote:', error);
      });
  };

  render() {
    return (
      <div>
        <h1>Random Quote Generator</h1>
        <button onClick={this.fetchQuote}>New Quote</button>
        <div className="quote-box">
          <p>{this.state.quote}</p>
        </div>
      </div>
    );
  }
}

export default App;
```

2.3 Details of Hardware &

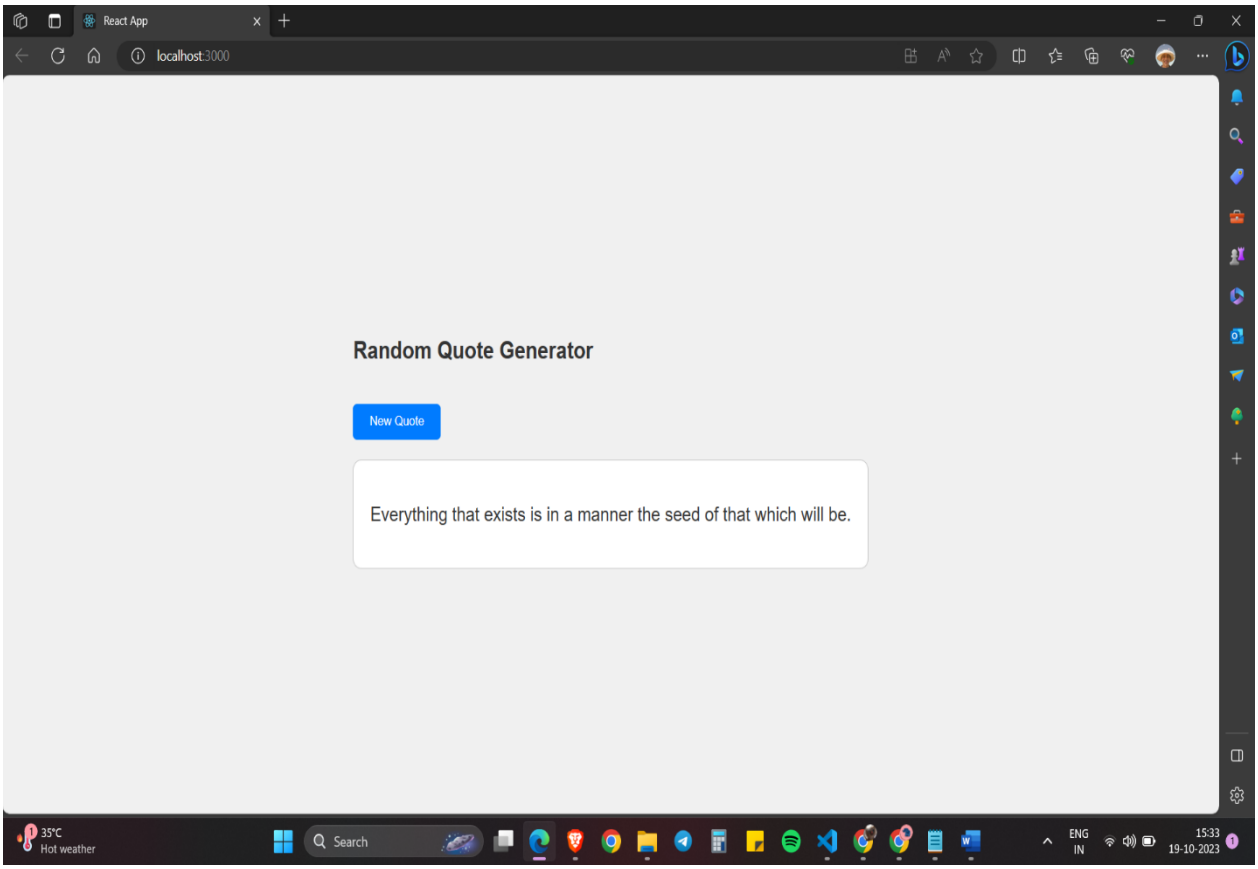
Software: Software:

- Visual Studios Code
- HTML
- CSS
- React

Hardware:

- 4 GB RAM or Higher
- 512 GB SSD or Higher
- 4 processor system or higher

2.4 Results:



2.5 Future Scope

- User Accounts
- User-Contributed Quotes
- Localization
- Daily Quote Subscription
- Mobile App Version
- Advanced Features

2.6 Conclusion

In conclusion, the Random Quote Generator is a captivating project that combines React's dynamic capabilities with inspirational or thought-provoking content. By achieving the outlined objectives and considering future scope possibilities, you can create an engaging and user-friendly application. Whether used for personal inspiration or shared with a broader audience, this project offers an excellent opportunity to explore React, enhance your web development skills, and provide users with a daily dose of wisdom and motivation.

Reference

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4. https://react.dev/