# WEB TECHNOLOGIES LAB
# CAFÉ WEBSITE USING REACT

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## Cafe Website Using React

**AIM:**

To create a Café Website using ReactJS and make is online in localhost:3000.

**ALGORITHM:**

1. **Setup and Initialization**
   - Install Node.js and npm.
   - Create a new React project using Create React App.
   - Navigate to the project directory.
2. **Project Structure**
   - Organize the project into directories for components, styles, and assets.
3. **Develop Components**
   - **Navigation Bar:**
     - Create a component for the navigation bar with links to different sections.
   - **Home Section:**
     - Create a component to display the homepage content, including welcome message and contact information.
   - **Book Table Section:**
     - Create a component for the table booking form with fields for user details and reservation information.
   - **Menu Section:**
     - Create a component to display the menu with pagination or a slider to show different menu items.
   - **Contact Section:**
     - Create a component for contact details and embed a Google Map showing the cafe's location.
4. **Integration**
   - Import and integrate all components into the main application component.
   - Ensure that all components are correctly rendered on the page.
5. **Styling**
   - Develop CSS files for styling each component.
   - Apply responsive design principles to ensure the site looks good on all devices.

**CODE:**

Begin with creating the React project in the terminal

```
npx create-react-app cafe-website
cd cafe-website
code .
```

Then open the folder and add a folder named components in the src folder.

The add the following js files in it.

**App.js**

```jsx
import React from 'react';
import Navbar from './components/Navbar';
import Home from './components/Home';
import Book from './components/Book';
import Menu from './components/Menu';
import Contact from './components/Contact';
import './styles/App.css';

const App = () => {
    return (
        <>
            <Navbar />
            <Home />
            <Book />
            <Menu />
            <Contact />
        </>
    );
};

export default App;
```

**Navbar.js**

```jsx
import React from 'react';
import './Navbar.css';

const Navbar = () => {
    // Smooth scrolling function
    const handleSmoothScroll = (event, href) => {
        event.preventDefault();
        const targetElement = document.querySelector(href);
        if (targetElement) {
            window.scrollTo({
                top: targetElement.offsetTop,
```

```
                behavior: 'smooth'
            });
        }
    };

    return (
        <nav className="navbar">
            <div className="navbar-container">
                <ul className="nav-links">
                    <li><a href="#home" onClick={(e) => handleSmoothScroll(e,
'#home')}>Home</a></li>
                    <li><a href="#book" onClick={(e) => handleSmoothScroll(e,
'#book')}>Book Table</a></li>
                    <li><a href="#menu" onClick={(e) => handleSmoothScroll(e,
'#menu')}>Menu</a></li>
                    <li><a href="#contact" onClick={(e) => handleSmoothScroll(e,
'#contact')}>Contact</a></li>
                </ul>
            </div>
        </nav>
    );
};

export default Navbar;
```

**Home.js**

```
import React from 'react';
import './Home.css';

const Home = () => {
    return (
        <section id="home" className="home-section-wrapper">
            <section className="home-section">
                <h1>Welcome to la Cafe</h1>
                <p>Taste the Best!</p>
                <address>
                    SNU Chennai<br />
                    Phone: 555-555-5555<br />
                    Email: <a href="mailto:info@lacafe.com">info@lacafe.com</a>
                </address>
            </section>
        </section>
    );
};

export default Home;
```

**Book.js**

```jsx
import React from 'react';
import './Book.css';

const Book = () => {
    return (
        <section id="book" className="book-section">
            <h1>Book a Table</h1>
            <p>Reserve a table at la Cafe for a unique dining experience.</p>
            <form>
                <label htmlFor="name">Name:</label>
                <input type="text" id="name" name="name" required /><br /><br />
                <label htmlFor="email">Email:</label>
                <input type="email" id="email" name="email" required /><br /><br />
                <label htmlFor="phone">Phone:</label>
                <input type="tel" id="phone" name="phone" required /><br /><br />
                <label htmlFor="date">Date:</label>
                <input type="date" id="date" name="date" required /><br /><br />
                <label htmlFor="time">Time:</label>
                <input type="time" id="time" name="time" required /><br /><br />
                <label htmlFor="guests">Number of Guests:</label>
                <input type="number" id="guests" name="guests" required /><br /><br
/>
                <label htmlFor="special-requests">Special Requests:</label>
                <textarea id="special-requests" name="special-
requests"></textarea><br /><br />
                <input type="submit" value="Book Table" />
            </form>
        </section>
    );
};

export default Book;
```

**Menu.js**

```jsx
import React, { useState } from 'react';
import './Menu.css';

const Menu = () => {
    const [activeMenu, setActiveMenu] = useState(1);

    // Sample menu items (20 items)
    const menuItems = [
        'Pizza Margherita', 'Pepperoni Pizza', 'BBQ Chicken Pizza', 'Vegetable
Pizza', 'Hawaiian Pizza',
        'Cheeseburger', 'Veggie Burger', 'Chicken Burger', 'BBQ Ribs', 'Spaghetti
Carbonara',
        'Caesar Salad', 'Greek Salad', 'Bruschetta', 'Garlic Bread', 'Pasta
Alfredo',
        'Tiramisu', 'Cheesecake', 'Brownies', 'Apple Pie', 'Ice Cream Sundae'
```

```
    ];

    // Split menu items into chunks of 10
    const chunkSize = 10;
    const paginatedItems = [menuItems.slice(0, chunkSize),
menuItems.slice(chunkSize)];

    const showMenu = (menuIndex) => {
        setActiveMenu(menuIndex);
    };

    return (
        <section id="menu" className="menu-section">
            <h1>Our Menu</h1>
            <div className="menu-slider-container">
                {/* Display items for the current menu */}
                <div className={`menu-slider ${activeMenu === 1 ? 'active' : ''}`}>
                    <ul>
                        {paginatedItems[0].map((item, index) => (
                            <li key={index}>{item}</li>
                        ))}
                    </ul>
                </div>
                <div className={`menu-slider ${activeMenu === 2 ? 'active' : ''}`}>
                    <ul>
                        {paginatedItems[1].map((item, index) => (
                            <li key={index}>{item}</li>
                        ))}
                    </ul>
                </div>
            </div>
            <div className="menu-buttons">
                <div className={`menu-button ${activeMenu === 1 ? 'active' : ''}`}
onClick={() => showMenu(1)}></div>
                <div className={`menu-button ${activeMenu === 2 ? 'active' : ''}`}
onClick={() => showMenu(2)}></div>
            </div>
        </section>
    );
};

export default Menu;
```

**Contact.js**

```
import React from 'react';
import './Contact.css';

const Contact = () => {
    return (
```

```jsx
        <section id="contact" className="contact-section">
            <div className="container">
                <div className="row">
                    <div className="col-md-6">
                        <div className="google-map">
                            <iframe

src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d248756.13130929516!2d80.
04420289216043!3d13.047473319208887!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2
!1s0x3a5265ea4f7d3361%3A0x6e61a70b6863d433!2sChennai%2C%20Tamil%20Nadu!5e0!3m2!1sen
!2sin!4v1722921573556!5m2!1sen!2sin"
                                title="Google Maps"
                                allowFullScreen=""
                                loading="lazy"
                                referrerPolicy="no-referrer-when-downgrade"
                            ></iframe>
                        </div>
                    </div>
                    <div className="col-md-6 contact-info">
                        <h2>Contact Us</h2>
                        <ul>
                            <li>
                                <i className="fas fa-phone"></i>
                                <span>Phone:</span>
                                <a href="tel:+1234567890">+123 456 7890</a>
                            </li>
                            <li>
                                <i className="fas fa-envelope"></i>
                                <span>Email:</span>
                                <a
href="mailto:info@example.com">info@example.com</a>
                            </li>
                            <li>
                                <i className="fas fa-map-marker-alt"></i>
                                <span>Address:</span>
                                <address>SNU Chennai</address>
                            </li>
                        </ul>
                    </div>
                </div>
            </div>
        </section>
    );
};

export default Contact;
```
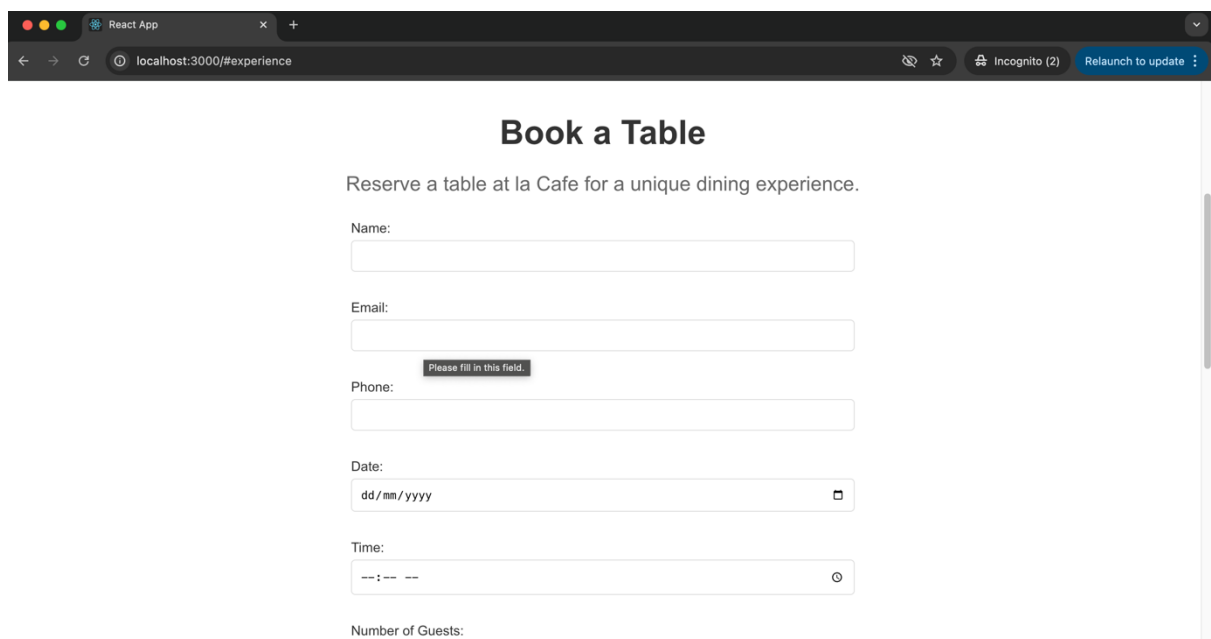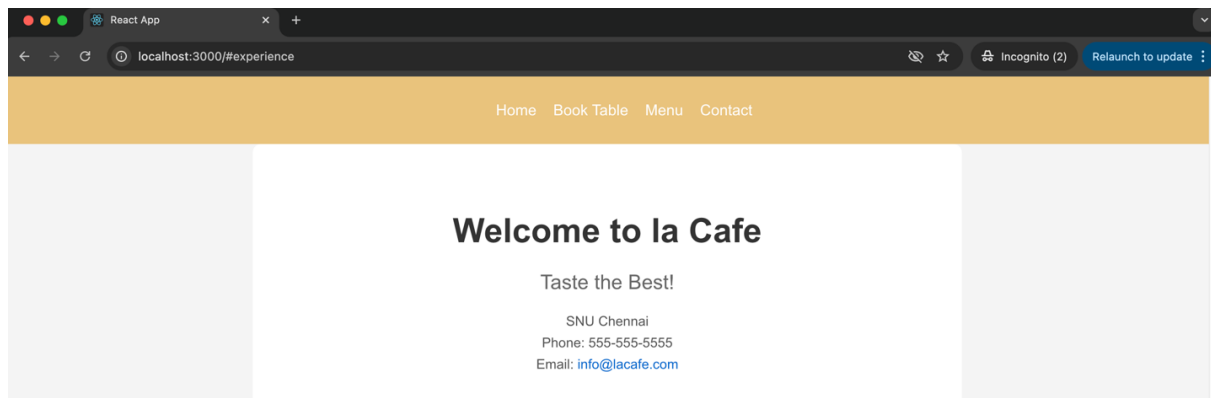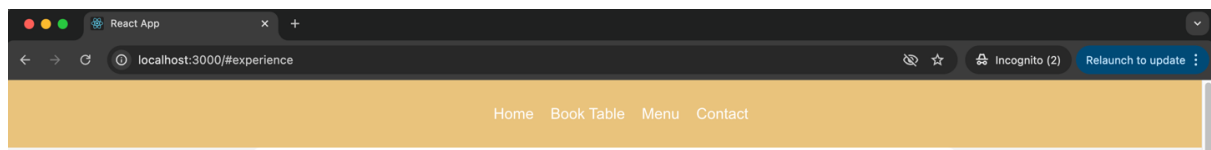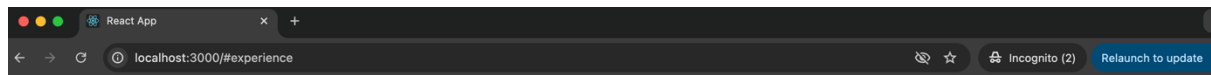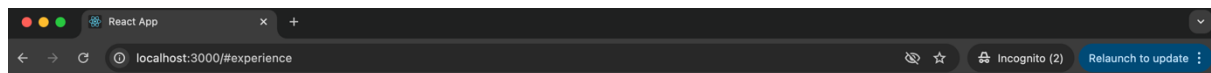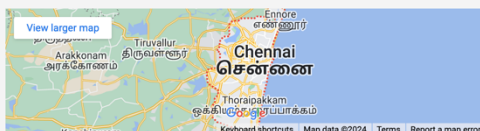
Output:





### Welcome to la Cafe

Taste the Best!

SNU Chennai
Phone: 555-555-5555
Email: info@lacafe.com



## Book a Table

Reserve a table at la Cafe for a unique dining experience.

Name:

Email:

Please fill in this field.

Phone:

Date:

dd / mm / yyyy

Time:

--:-- --

Number of Guests:

## Our Menu

| |
|---|
| Pizza Margherita |
| Pepperoni Pizza |
| BBQ Chicken Pizza |
| Vegetable Pizza |
| Hawaiian Pizza |
| Cheeseburger |
| Veggie Burger |
| Chicken Burger |
| BBQ Ribs |
| Spaghetti Carbonara |

| |
|---|
| Greek Salad |
| Bruschetta |
| Garlic Bread |
| Pasta Alfredo |
| Tiramisu |
| Cheesecake |
| Brownies |
| Apple Pie |
| Ice Cream Sundae |

## Contact Us

**Phone:** +123 456 7890

**Email:** info@example.com

**Address:** *SNU Chennai*

**OUTPUT:**

Thus the café website have been developed and deployed using ReactJS.