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20 April 2021

UCS 1611 - Internet Programming Lab

Exercise 7: Website for International Conference using React

Learning Objective:

Design a Website for an International Conference using React. (Similar to Ex 1)

1. The conference homepage should consists of the following tabs: Home, Committee, Call For Papers, Important Dates, Workshops, Registration and Contact.

2. On clicking each tab, it should open in the same page (SPA). (Use react router)

3. The website should contain logos, header, footer.

4. The Header and footer should be same for all links.

5. For pre-conference workshop registration use form elements.

Code - Home Component:

```
1  import React , { Component } from 'react ';
2
3  class Home extends Component {
4      render () {
5          return (
6              <div>
7                  <hr />
8                  <h2 align="center" className="title text -shadow -pop -bottom
    ">HOME </h2>
9                  <br />
10                 <article align="center" style ={{ fontFamily: 'arial',
    position: 'relative', overflow: 'auto', margin: 'auto', width: '35% ',
    border: '3px solid black' }}>
11                     <h2 style ={{ color: '#ffbd39 ' }}>ABOUT </h2>
12                     <p style ={{ fontSize: 20, color: '#f8f1f1', padding: 5
     }}>The <strong ><abbr title="Internation Conference for Chess">ICC </
    abbr > 2021 </strong > is organized proudly by the
13                         <b>Tata Steel Foundation </b>. Leading Grandmasters
     and key chess figures will be present in this grand
14                         event.
15                         It provides an opportunity for chess enthusiasts ,
    professional chess players , researchers and related
16                         specialists to discuss on how <b><i>Artificial
    Intelligence </i></b> has influenced the game and propose
17                         novel ideas for further development and research.
18                     </p>
19                 </article >
20                 <br /><br />
21                 <div align="center" className="logo">
22                     <figure >
23                         <img src="tata_logo.png" height="125," width ={125}
     alt="Tata Logo" style ={{ border: '3px solid black' }} />
24                         <figcaption >Tata Steel Chess Tournament </
    figcaption >
25                     </figure >
26                 </div>
27                 <br /><br /><br />
28             </div>
29         );
30     }
31 }
32
33 export default Home ;
```

Code - Committee Component:

```jsx
import React, { Component } from 'react';

class Committee extends Component {
    render() {
        return (
            <div>
                <hr />
                <h2 align="center" className="title text-shadow-pop-bottom">COMMITTEE</h2>
                <article>
                    <ul className="committee">
                        <li>CHIEF CHAIR</li>
                        <ul className="members">
                            <li>Garry Kasparov, Grandmaster</li>
                        </ul>
                        <li>PATRON</li>
                        <ul className="members">
                            <li>Magnus Carlsen, Grandmaster</li>
                            <li>Hikaru Nakamura, Grandmaster</li>
                            <li>Viswanathan Anand, Grandmaster</li>
                        </ul>
                        <li>CONFERENCE CHAIR</li>
                        <ul className="members">
                            <li>Fabiano Caruana, Grandmaster</li>
                            <li>Wesley So, Grandmaster</li>
                            <li>Anish Giri, Grandmaster</li>
                        </ul>
                        <li>PROGRAM COMMITTEE</li>
                        <ul className="members">
                            <li>Levy Rozman, International Master</li>
                            <li>Alexandra Botez, Woman FIDE Master</li>
                        </ul>
                        <li>MEDIA COMMITTEE</li>
                        <ul className="members">
                            <li>Sagar Shah, International Master</li>
                            <li>Samay Raina, YouTuber</li>
                            <li>Antonio Radic (Agadmator), YouTuber</li>
                        </ul>
                        <li>STRATEGIC PARTNERS</li>
                        <ul className="members">
                            <li>Danny Rensch, Chief Chess Officer, Chess.com</li>
                            <li>Robert Hess, Analyst, Chess.com</li>
                        </ul>
                    </ul>
                </article>
                <br /><br /><br />
```

```
46            </div>
47         );
48     }
49 }
50
51 export default Committee;
```

Code - Call for Papers Component:

```jsx
import React, { Component } from 'react';

class Papers extends Component {
    render() {
        return (
            <div>
                <hr />
                <h2 align="center" className="title text-shadow-pop-bottom">ICC 2021 PAPERS</h2>
                <article align="left" style={{ fontFamily: 'arial', width: '75%', fontSize: 20, color: '#f8f1f1', padding: 5 }}>
                    <p>The <strong><abbr title="Internation Conference for Chess">ICC</abbr> 2021</strong> calls for papers to to be
                    submitted in all aspects of chess, with emphasis on Engine Analysis, Endgame Theory &amp; Tactics.</p>
                    <p>Relevant topics for the conference include, but not limited to, the following areas:</p>
                    <ul className="topics">
                        <li>ENGINE ANALYSIS</li>
                        <ul className="subtopics">
                            <li>Deep Neural Networks</li>
                            <li>Expert Systems</li>
                            <li>Chess Cognition</li>
                            <li>Real-time high performance analysis</li>
                            <li>Report generation</li>
                            <li>Move order exploration</li>
                            <li>Exploring opening theory</li>
                        </ul>
                        <li>ENDGAME THEORY</li>
                        <ul className="subtopics">
                            <li>Rook &amp; Pawn Endgames</li>
                            <li>Queen &amp; Pawn Endgames</li>
                            <li>Bishop Endgames</li>
                            <li>Knights vs Bishops Endgames</li>
                        </ul>
                        <li>TACTICS</li>
                        <ul className="subtopics">
                            <li>Puzzle Training</li>
                            <li>Puzzle Design</li>
                            <li>Artificial Puzzle Generation</li>
                            <li>Tactical analysis of positions</li>
                        </ul>
                    </ul>
                </article>
                <br /><br /><br />
            </div>
        );
```

```
43        }
44 }
45
46 export default Papers;
```

Code - Important Dates Component:

```
1  import React , { Component } from 'react';
2
3  class Dates extends Component {
4      render () {
5          return (
6              <div>
7                  <hr />
8                  <h2 align="center" className="title text-shadow-pop-bottom
   ">IMPORTANT DATES</h2>
9                  <br />
10                 <table width="75%" border="2px" solid black>
11                     <thead style={{ color: '#ffbd39', fontSize: 25 }}>
12                         <tr>
13                             <th>Event</th>
14                             <th>Date</th>
15                         </tr>
16                     </thead>
17                     <tbody>
18                         <tr>
19                             <td>Commencement of Paper Submission</td>
20                             <td>December 05, 2020</td>
21                         </tr>
22                         <tr>
23                             <td><strike>Closing of Paper Submission</
   strike></td>
24                             <td><strike>January 05, 2021</strike></td>
25                         </tr>
26                         <tr>
27                             <td>Acceptance Notification</td>
28                             <td>January 10, 2021</td>
29                         </tr>
30                         <tr>
31                             <td>Payment Deadline</td>
32                             <td>January 15, 2021</td>
33                         </tr>
34                         <tr>
35                             <td>Pre-Conference Workshops</td>
36                             <td>January 25, 2021</td>
37                         </tr>
38                         <tr>
39                             <td><strong>Closing of Paper Submission</
   strong></td>
40                             <td><strong>January 20, 2020</strong></td>
41                         </tr>
42                         <tr>
43                             <td>Conference</td>
```

```
44                            <td>January 28<sup>th</sup> - February 2<sup>
   nd</sup>, 2021</td>
45                        </tr>
46                    </tbody>
47                </table>
48                <br /><br /><br />
49            </div>
50        );
51    }
52 }
53
54 export default Dates;
```

Code - Workshops Component:

```jsx
import React, { Component } from 'react';

class Workshops extends Component {
    render() {
        return (
            <div>
                <hr />
                <h2 align="center" className="title text-shadow-pop-bottom">ICC 2021 WORKSHOPS</h2>
                <br />
                <div align="left" style={{ fontFamily: 'arial', width: '50%' }}>
                    <p style={{ fontSize: 20, color: '#f8f1f1', padding: 5 }}>The <strong><abbr title="Internation Conference for Chess">ICC</abbr> 2021</strong> is organizing two extensive,
                        in-depth workshops that will be held for two hours on all the days of the conference, from <strong>10 AM -
                        12 PM</strong>. Interested people can register for attending the workshops from our registration page.
                    </p>
                    <p style={{ fontFamily: 'arial', width: '75%', fontSize: 15, color: '#f8f1f1', fontWeight: 'bold' }}>(Please note that
                        registrations are served on a first-come, first-serve basis)</p>
                </div>
                <div className="content">
                    <p>
                        <img src="radjabov.png" alt="Radjabov's Picture" width="300px" height="200px" />
                        A workshop on detailed analysis of <b>flank opening</b> theories including King's Indian Defense, Reti
                        Opening, English Opening, Caro-Kann, etc. will be held by <strong>GM Teimour Radjabov</strong>.
                    </p>
                    <br /><br /><br />
                </div>
                <div className="content">
                    <p>
                        <img src="alphazero.jpeg" alt="AlphaZero Logo" width="300px" height="200px" />
                        <b>DeepMind</b> in partnership with <b>Chess.com</b> is hosting a workshop on the role of AI in Chess with a
                        case-study of their own chess engine, <mark>AlphaZero</mark>. Attendees will be able to understand how
                        conventional chess ideologies are translated into notions that can be perceived by the computer. No prior
```

```
32                          technical knowledge is required to join this
    workshop .
33                         </p>
34                         <br /><br /><br />
35                     </div>
36                     <br /><br /><br />
37                 </div>
38         );
39     }
40 }
41
42 export default Workshops ;
```

Code - Registration Component:

```
1  import React , { Component } from 'react';
2
3  class Registration extends Component {
4      render () {
5          return (
6              <div>
7                  <hr />
8                  <h2 align="center" className="title text-shadow-pop-bottom
   ">REGISTRATION</h2>
9                  <br />
10                 <p align="left" style={{ fontFamily: '"Tahoma", sans-serif
   ', fontSize: 18, color: '#f8f1f1', width: '60%' }}>
11                     The registration fee for main conference with workshop
    will cover conference &amp; workshop, full access to all
12                     sessions/invited talks including the pre-conference
   workshop.
13   <br />
14   Currently the only possible mode of payment is NEFT/RTGS for Dutch
   participants and wire transfer for foreign
15   participants.
16   <br />
17                     <b>Kindly fill out the form below to commence the
   registration process and receive payment information in
18      your e-mail.</b>
19                 </p>
20                 <hr />
21                 <div id="form">
22                     <form>
23                         <p className="title"><b><u>NAME &amp; E-MAIL</u></
   b></p>
24                         <label htmlFor="name">Name</label>
25                         <input type="text" id="text" name="name"
   placeholder="Anatoly Karpov" />
26                         <br /><br />
27                         <label htmlFor="email">Email</label>
28                         <input type="text" id="text" name="email"
   placeholder="karpov_anatoly@email.com" />
29                         <br />
30                         <p className="title"><b><u>GENDER</u></b></p>
31                         <input type="radio" id="male" name="gender"
   defaultValue="male" />
32                         <label htmlFor="male">Male</label><br />
33                         <input type="radio" id="female" name="gender"
   defaultValue="female" />
34                         <label htmlFor="female">Female</label><br />
35                         <input type="radio" id="other" name="gender"
   defaultValue="other" />
```

```
36                          <label htmlFor="other">Other</label><br />
37                          <p className="title"><b><u>EVENTS INTERESTED</u></
   b></p>
38                          <input type="checkbox" id="event1" name="event1"
   defaultValue="Flank Opening Theories" />
39                          <label htmlFor="event1">Flank Opening Theories</
   label><br />
40                          <input type="checkbox" id="event2" name="event2"
   defaultValue="DeepMind Workshop" />
41                          <label htmlFor="event2">DeepMind Workshop</label><
   br />
42                          <input type="checkbox" id="event3" name="event3"
   defaultValue="Pre-Conference Workshop" />
43                          <label htmlFor="event3">Pre-Conference Workshop</
   label><br /><br />
44                          <input type="submit" defaultValue="Submit" id="
   button" />
45                          <input type="reset" defaultValue="Clear" id="
   button" />
46                      </form>
47                  </div>
48                  <br /><br /><br />
49              </div>
50          );
51      }
52 }
53
54 export default Registration;
```

Code - Contact Component:

```
1  import React, { Component } from 'react';
2
3  class Contact extends Component {
4      render() {
5          return (
6              <div>
7                  <hr />
8                  <h2 align="center" className="title text-shadow-pop-bottom">CONTACT</h2>
9                  <br />
10                 <section align="center">
11                     <p className="contact"><span className="name">Pentala Harikrishna</span> - <a href="mailto:harikrishna_p@chess.com">harikrishna_p@chess.com</a></p>
12                     <p className="contact"><span className="name">Aryan Tari</span> - <a href="mailto:tari_aryan@chess24.com">tari_aryan@chess24.com</a></p>
13                     <p className="contact"><span className="name">Ray Robson</span> - <a href="mailto:rrobson@lichess.org">rrobson@lichess.org</a></p>
14                     <p className="contact"><span className="name">Simon Williams</span> - <a href="mailto:gingergm@chessable.com">gingergm@chessable.com</a></p>
15                 </section>
16                 <br /><br /><br />
17             </div>
18         );
19     }
20 }
21
22 export default Contact;
```

Code - Header Component:

```
1  import React , { Component } from 'react';
2
3  import {
4      BrowserRouter as Router ,
5      Link
6  } from "react-router-dom";
7
8  class Header extends Component {
9      render () {
10         return (
11             <div>
12                 <header>
13                     <h1 title="ICC 2021 Welcomes You!">The International
   Conference for Chess 2021</h1>
14                     <h2>3rd International Conference on the Role of AI in
   Chess</h2>
15                     <h3>28<sup>th</sup> January 2021 - 2<sup>nd</sup>
   February 2021</h3>
16                     <h3>Tata Chess Amphitheatre , Wijk Aan Zee , Netherlands
   </h3>
17                 </header>
18                 <br />
19                 <nav align="center">
20                     <ul>
21                         <li><a><Link to="/"> HOME </Link></a></li>
22                         <li><a><Link to="/committee"> COMMITTEE </Link></a
   ></li>
23                         <li><a><Link to="/papers"> CALL FOR PAPERS </Link>
   </a></li>
24                         <li><a><Link to="/dates"> IMPORTANT DATES </Link><
   /a></li>
25                         <li><a><Link to="/workshops"> WORKSHOPS </Link></a
   ></li>
26                         <li><a><Link to="/registration"> REGISTRATION </
   Link></a></li>
27                         <li><a><Link to="/contact"> CONTACT </Link></a></
   li>
28                     </ul>
29                 </nav>
30
31             </div>
32         )
33     }
34 };
35
36 export default Header;
```

Code - Footer Component:

```
1 import React, { Component } from 'react';
2
3 class Footer extends Component {
4     render() {
5         return (
6             <div className="footer" align="center">
7                 <address> Contact us at <a href="svishakan123@gmail.com">
    svishakan123@gmail.com</a> </address>
8             </div>
9         )
10     }
11 };
12
13 export default Footer;
```

Code - App JS:

```
1  import logo from './logo.svg';
2  import './App.css';
3  import './styles.css'
4  import Home from './components/Home'
5  import Committee from './components/Committee'
6  import Papers from './components/Papers'
7  import Dates from './components/Dates'
8  import Workshops from './components/Workshops'
9  import Registration from './components/Registration';
10 import Contact from './components/Contact';
11 import Header from './components/Header';
12 import Footer from './components/Footer';
13
14 import {
15   BrowserRouter as Router,
16   Switch,
17   Route,
18   Link
19 } from "react-router-dom";
20
21 function App() {
22   return (
23     <div>
24       <Router>
25         <Header />
26         <Switch>
27           <Route exact path="/">
28             <Home />
29           </Route>
30           <Route path="/committee">
31             <Committee />
32           </Route>
33           <Route path="/papers">
34             <Papers />
35           </Route>
36           <Route path="/dates">
37             <Dates />
38           </Route>
39           <Route path="/workshops">
40             <Workshops />
41           </Route>
42           <Route path="/registration">
43             <Registration />
44           </Route>
45           <Route path="/contact">
46             <Contact />
47           </Route>
```

```
48          </Switch>
49          <Footer />
50        </Router>
51      </div>
52    );
53 }
54
55 export default App;
```

Code - Stylesheet:

```css
@import url('https://fonts.googleapis.com/css2?family=Dosis&display=swap')
    ;
@import url('https://fonts.googleapis.com/css2?family=Righteous&display=
    swap');

body {
    background: #9d50bb;
    background: linear-gradient(to right, #6e48aa, #9d50bb);
}

header {
    background-image: url("header-bg.png");
    background-repeat: no-repeat;
    overflow: hidden;
    height: auto;
    width: 100%;
    font-family: "Dosis", sans-serif;
    color: #111d5e;
    text-align: center;
    border-radius: 0 0 85% 85% / 30%;
}

/*Navigation Bar starts*/

nav {
    border: 2px solid white;
}

nav ul {
    font-family: arial;
    font-size: 20px;
    overflow: hidden;
    background-color: #333;
    margin: 0;
    padding: 0;
}

nav ul li {
    list-style-type: none;
    border-right: 2px solid white;
    display: inline-block;
    margin-left: -6px;
}

li a {
    display: block;
    color: white;
```

```css
46      text-align: center;
47      padding: 7px 7px;
48      text-decoration: none;
49 }
50
51 li a:hover:not(.active) {
52      /*Defines the default color if the anchor is not active*/
53      background-color: #111;
54 }
55
56 .active {
57      /*Defines the currently active anchor tag color*/
58      background-color: #4caf50;
59 }
60
61 /*Title Text*/
62
63 .title {
64      color: #111d5e;
65      font-family: Righteous;
66      font-size: 40px;
67      text-shadow: 5px 5px 5px #f148fb;
68 }
69
70 .text-shadow-pop-bottom {
71      animation: text-shadow-pop-bottom 1s linear infinite alternate both;
72 }
73
74 @keyframes text-shadow-pop-bottom {
75      0% {
76          -webkit-transform: translateY(0);
77          transform: translateY(0);
78      }
79      100% {
80          -webkit-transform: translateY(-8px);
81          transform: translateY(-8px);
82      }
83 }
84
85 /*Navigation Bar ends*/
86
87 .footer {
88      color: black;
89      background: azure;
90      border-top: 3px solid black;
91      border-bottom: 3px solid black;
92      position: fixed;
93      bottom: 0px;
94      padding: 5px 5px 5px 5px;
95      text-align: center;
96      width: 100%;
```

```css
97      margin-left: -8px;
98      z-index: 1;
99  }
100
101 table {
102     font-family: "Segoe UI", Tahoma, sans-serif;
103     font-size: 20px;
104     color: firebrick;
105     padding: 5px;
106     text-align: center;
107     margin-left: auto;
108     margin-right: auto;
109     width: 65%;
110 }
111
112 tbody tr:hover {
113     font-weight: bold;
114     color: black;
115 }
116
117 tbody tr:nth-child(even) {
118     background-color: beige;
119 }
120
121 tbody tr:nth-child(odd) {
122     background-color: thistle;
123 }
124
125 /*Form CSS*/
126
127 #form {
128     border-radius: 5px;
129     box-sizing: border-box;
130     border: 2px solid white;
131     background: #525252;
132     background: linear-gradient(to right, #3d72b4, #525252);
133     padding: 20px;
134     font-size: 18px;
135 }
136
137 #form label {
138     font-weight: 600;
139     color: mistyrose;
140 }
141
142 #form .title {
143     color: #ffbd39;
144     font-size: 20px;
145 }
146
147 #text {
```

```css
148     width: 50%;
149     background-color: seashell;
150     color: black;
151     padding: 10px 10px;
152     margin: 10px;
153     border: none;
154     border-radius: 4px;
155     box-sizing: border-box;
156     display: inline-block;
157     cursor: pointer;
158 }
159
160 #button {
161     width: 25%;
162     background-color: darkslategrey;
163     color: ivory;
164     cursor: pointer;
165     border-radius: 4px;
166     margin: 10px;
167     border: 1px solid white;
168     padding: 10px 10px;
169     font-size: 18px;
170 }
171
172 #button:hover {
173     font-weight: bold;
174     background-color: seagreen;
175 }
176
177 /*Form CSS ends*/
178
179 /*Committee CSS*/
180
181 /*list-style-type uses unicode icons*/
182
183 .committee {
184     list-style-type: "\2654  ";
185     color: #ffbd39;
186     font-weight: bold;
187     font-size: 22px;
188     line-height: 30px;
189 }
190
191 .committee .members {
192     list-style-type: "\2659  ";
193     color: #f8f1f1;
194     font-size: 20px;
195     line-height: 25px;
196 }
197
198 .topics {
```

21

```css
199        list-style-type: "\1F3AF    ";
200        color: #ffbd39;
201        font-weight: bold;
202        font-size: 20px;
203        line-height: 30px;
204 }
205
206 .subtopics {
207        list-style-type: "\1F4D5   ";
208        color: #f8f1f1;
209        font-size: 15px;
210        line-height: 25px;
211 }
212
213 /*CSS for Contact Page*/
214
215 .contact {
216        color: #f8f1f1;
217        font-size: 22px;
218        font-family: "Helvetica", sans-serif;
219 }
220
221 .name {
222        color: #ffbd39;
223        font-weight: bold;
224        font-size: 25px;
225 }
226
227 .contact a {
228        text-decoration: none;
229 }
230
231 .contact a:link {
232        color: #f8f1f1;
233 }
234
235 .contact a:hover {
236        color: hotpink;
237 }
238
239 /*CSS for Contact Page ends*/
240
241 /*CSS for Images*/
242
243 @keyframes animate_logo {
244        0% {
245            border-color: red;
246        }
247        25% {
248            border-color: yellow;
249        }
```

```css
250      50% {
251          border-color: blue;
252      }
253      75% {
254          border-color: green;
255      }
256      100% {
257          border-color: white;
258      }
259 }
260
261 .logo img {
262     animation-name: animate_logo;
263     animation-duration: 4s;
264     animation-iteration-count: infinite;
265     animation-direction: alternate;
266 }
267
268 .logo img:hover {
269     transform: scale(1.5);
270 }
271
272 .content {
273     font-family: "Lucida Sans", "Geneva", sans-serif;
274     width: 50%;
275     float: left;
276     overflow: auto;
277     scroll-behavior: auto;
278 }
279
280 .content p {
281     font-size: 18px;
282     color: #f8f1f1;
283     padding: 0 20px 0 0;
284 }
285
286 .content p img {
287     float: right;
288     border: 2px solid black;
289     box-sizing: border-box;
290 }
```

Output - Home Page:

Figure 1: Browser Output: Home Page.
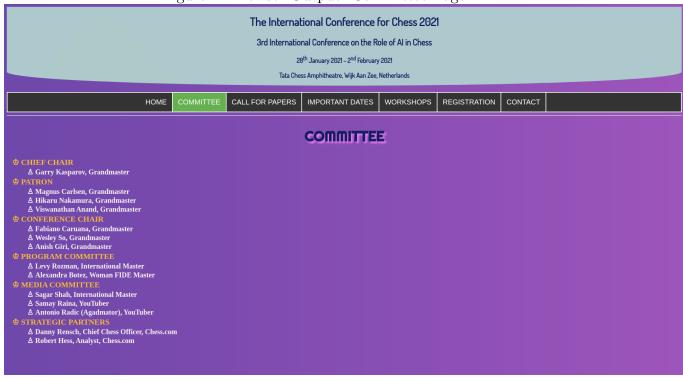
Output - Committee Page:

Figure 2: Browser Output: Committee Page.

Output - Call For Papers Page:

Figure 3: Browser Output: Call For Papers Page.
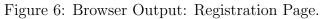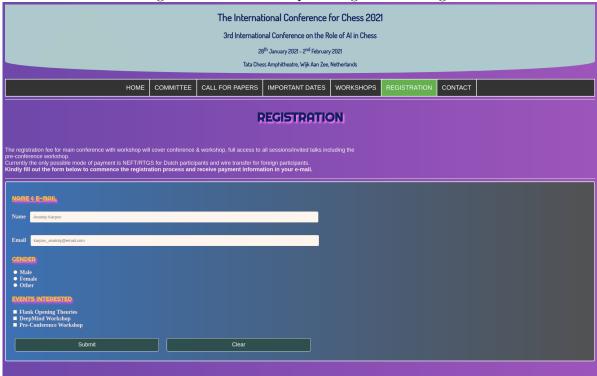
Output - Important Dates Page:

Figure 4: Browser Output: Important Dates Page.

The International Conference for Chess 2021

3rd International Conference on the Role of AI in Chess

28th January 2021 – 2nd February 2021

Tata Chess Amphitheatre, Wijk Aan Zee, Netherlands

| HOME | COMMITTEE | CALL FOR PAPERS | IMPORTANT DATES | WORKSHOPS | REGISTRATION | CONTACT |

IMPORTANT DATES

Event	Date
Commencement of Paper Submission	December 05, 2020
Closing of Paper Submission	January 05, 2021
Acceptance Notification	January 10, 2021
Payment Deadline	January 15, 2021
Pre-Conference Workshops	January 25, 2021
Closing of Paper Submission	**January 20, 2020**
Conference	January 28th - February 2nd, 2021

Contact us at svishakan123@gmail.com

Output - Workshops Page:

Figure 5: Browser Output: Workshops Page.

Output - Registration Page:

Figure 6: Browser Output: Registration Page.

Output - Contact Page:

Figure 7: Browser Output: Contact Page.

Learning Outcome:

- From the experiment, I learnt to create a simple **React** app.

- I learnt to create and render a class component.

- I learnt to create a SPA with multiple links in React.

- I learnt about the working of **React Router**.

- I was able to reuse my previous HTML elements and convert them to JSX format for rendering in React.

- I learnt how components are rendered in React.

- I learnt about JSX syntax.

- I learnt how to load different components based on user-selection using React Routing.

- I was able to modularize and reuse several components like the header, navigation bar and footer using React.

- I learnt how to download different NodeJS packages.

- I implemented detailed CSS for the website.

- I learnt how react efficiently simplifies code using the principle of reuse.