

UTS

**SPA (Single Page Application) React Router
Online Shop**

PEMROGRAMAN BERBASIS FRAMEWORK



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**POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI D4 TEKNIK INFORMATIKA**

APRIL 2021

Langkah Langkah :

No	Keterangan
1	Lakukan instalasi react (<i>npm install</i>) terlebih dahulu
2	Tambahkan library react router dengan menambahkan <i>npm install react-router-dom</i> 
3	Import css <i>bootstrap.min.css</i> (css bootstrap yang sudah dikompresi) ke dalam App.js Jika css tidak ditemukan, install lewat cmd dengan perintah “ <i>npm install bootstrap</i> ” 
4	Source code pada App.js 

```

38
39     <Switch>
40       <Route exact path="/">
41         <Home />
42       </Route>
43       <Route exact path="/home">
44         <Home />
45       </Route>
46       <Route path="/product">
47         <Products />
48       </Route>
49       <Route path="/cart">
50         <Keranjangs />
51       </Route>
52       <Route path="/about">
53         <About />
54       </Route>
55     </Switch>
56   </div>
57 </Router>
58 );
59 }
60
61 function Home() {
62   return (
63     <div className="Home">
64       <header class="masthead">
65         <div class="container">
66           <div class="masthead-subheading">Welcome To Our Store!</div>
67           <div class="masthead-heading text-uppercase">
68             It's Nice To Meet You
69           </div>
70         </div>
71       </header>
72     </div>
73   );
74 }

```

```

75
76 const About = () => {
77   return (
78     <div>
79       <center>
80         <div className="biodataaaa">
81           <br />
82           <h2>Biodata</h2>
83           <br />
84           <div className="biodata">
85             <table
86               classname="table-biodata"
87               border="0"
88               width="700px"
89               height="300px"
90             >
91               <tr>
92                 <td rowspan="8">
93                   <div className="gambar-biodata">
94                     <img src={biodata} width="250" height="450" alt="" />
95                   </div>
96                 </td>
97               </tr>
98               <tr>
99                 <td>Nama</td>
100                <td>:</td>
101                <td width="200px">Livia Yurike Khuril Maula</td>
102              </tr>
103              <tr>
104                <td>Kelas</td>
105                <td>:</td>
106                <td>TI 3F</td>
107              </tr>
108              <tr>
109                <td>NIM</td>
110                <td>:</td>
111                <td>1841720025</td>

```

```

112     </tr>
113     <tr>
114         <td>Tempat, Tanggal Lahir</td>
115         <td>:</td>
116         <td>Malang, 3 Juli 1999</td>
117     </tr>
118     <tr>
119         <td>No Hp</td>
120         <td>:</td>
121         <td>+62822 2877 3286</td>
122     </tr>
123     <tr>
124         <td>Email</td>
125         <td>:</td>
126         <td>kliviayurike@gmail.com</td>
127     </tr>
128     <b>
129         <tr colspan="3" align="center">
130             <td align="center">Politeknik Negeri Malang</td>
131         </tr>
132     </b>
133 </table>
134 </div>
135 </div>
136 </center>
137 </div>
138 );
139 };
140
141 function Products() {
142     return (
143         <div className="product">
144             <MesinCuci />
145         </div>
146     );
147 }
148

```

```

149 function Keranjangs() {
150     return (
151         <div>
152             <Keranjang />
153         </div>
154     );
155 }
156
157 export default App;
158

```

5 Code App.css

```
# App.css ×
src > # App.css > .tgh
1  header.masthead {
2    padding-top: 10.5rem;
3    padding-bottom: 6rem;
4    text-align: center;
5    color: #fff;
6    background-image: url("../assets/header-bg.jpg");
7    background-repeat: no-repeat;
8    background-attachment: scroll;
9    background-position: center center;
10   background-size: cover;
11 }
12
13 header.masthead3 {
14   padding-top: 10.5rem;
15   padding-bottom: 20rem;
16   text-align: center;
17   color: #fff;
18   background-repeat: no-repeat;
19   background-attachment: scroll;
20   background-position: center center;
21   background-size: cover;
22 }
23
24 .container {
25   width: 100%;
26   padding-right: 0.75rem;
27   padding-left: 0.75rem;
28   margin-right: auto;
29   margin-left: auto;
30 }
31
32 header.masthead .masthead-subheading {
33   font-size: 1.5rem;
34   font-style: italic;
35   line-height: 1.5rem;
36   margin-bottom: 25px;
37   font-family: "Droid Serif", -apple-system, BlinkMacSystemFont, "Segoe UI",
```

```
38   Roboto, "Helvetica Neue", Arial, sans-serif, "Apple Color Emoji",
39   "Segoe UI Emoji", "Segoe UI Symbol", "Noto Color Emoji";
40 }
41
42 @media (min-width: 768px) {
43   header.masthead {
44     padding-top: 17rem;
45     padding-bottom: 12.5rem;
46   }
47   header.masthead .masthead-subheading {
48     font-size: 2.25rem;
49     font-style: italic;
50     line-height: 2.25rem;
51     margin-bottom: 2rem;
52   }
53   header.masthead .masthead-heading {
54     font-size: 4.5rem;
55     font-weight: 700;
56     line-height: 4.5rem;
57     margin-bottom: 4rem;
58   }
59 }
60
61 .header {
62   overflow: hidden;
63 }
64
65 .header img {
66   width: 40px;
67   float: left;
68   display: flex;
69   align-items: center;
70   margin-top: 15px;
71   margin-left: 15px;
72 }
73
74 .TopBar-1 {
```

```

75     float: left;
76     text-align: center;
77     text-decoration: text-decoration: underline brown;
78     padding: 14px 16px;
79     list-style: none;
80     font-size: 23px;
81     font-weight: 500;
82     font-style: oblique;
83 }
84
85 #TB1 {
86     margin-left: 25px;
87 }
88
89 a:any-link {
90     color: #212121;
91     text-decoration: none;
92     font-style: oblique;
93 }
94
95 /* Home */
96
97 .Home {
98     text-transform: uppercase;
99     border-top: 1px solid #212121 rgba(139, 136, 136, 0.425);
100     height: 745px;
101 }
102
103 .Home h2 {
104     color: #212121;
105 }
106
107 .row {
108     margin-top: 10px;
109     display: flex;
110     justify-content: center;
111 }

```

```

112
113 .col-sm {
114     border: 1px solid #212121;
115     width: 20%;
116     float: left;
117     margin: 0 10px;
118     border-radius: 10px;
119     padding-top: 25px;
120 }
121
122 .col-sm p {
123     font-size: 10px;
124     padding: 0px 10px 0px 10px;
125     text-align: justify;
126 }
127
128 .col-sm img {
129     width: 250px;
130 }
131
132 /* Data Page */
133
134 .header-2 {
135     overflow: hidden;
136     margin-top: 75px;
137     border-top: 1px solid #212121 rgba(139, 136, 136, 0.425);
138     height: 745px;
139 }
140
141 .header-2 ul {
142     margin-left: 60px;
143 }
144
145 .TopBar-2 {
146     float: left;
147     text-align: center;
148     text-decoration: text-decoration: underline brown;

```

```

149 padding: 14px 16px;
150 list-style: none;
151 font-size: 25px;
152 font-weight: 500;
153 font-style: oblique;
154 }
155
156 .tgh {
157   border: 0px solid #212121;
158   border-collapse: collapse;
159 }
160
161 .mesinuci .table-mesincuci {
162   border: 0px;
163 }
164
165 .product {
166   background-image: url("https://mmc.tirto.id/image/otf/1024x535/2019/05/21/mesin-cuci-isockphoto_ratio-16x9.jpg");
167   background-size: cover;
168 }
169
170 .mesincuci {
171   background-color: #fff;
172 }
173
174 .biodata {
175   width: 800px;
176   height: 500px;
177   padding: 20px;
178   border: 1px solid black;
179   border-radius: 4px;
180   margin-bottom: 10px;
181   margin-right: 10px;
182   margin-left: 10px;
183   display: inline-block;
184   background: #fff;
185 }
186
187 .biodataaaa {
188   background-image: url("https://mmc.tirto.id/image/otf/1024x535/2019/05/21/mesin-cuci-isockphoto_ratio-16x9.jpg");
189   background-size: cover;
190 }
191

```

6 Code component/MesinCuci/Post.jsx

```

JS Post.jsx 1 X
src > component > MesinCuci > JS Post.jsx > [0] Post
1  import React from "react";
2
3  const Post = (brg) => {
4    return (
5      <center>
6        <div className="mesincuci">
7          <table className="table-mesincuci" border="0">
8            <tr>
9              <td rowspan="4">
10               <div className="gambar-mesincuci">
11                 <img src={brg.gambar} width="150" height="150" alt="" />
12               </div>
13             </td>
14           </tr>
15           <tr>
16             <td>ID</td>
17             <td>:</td>
18             <td width="200px">{brg.id}</td>
19             <td>Stok</td>
20             <td>:</td>
21             <td>{brg.stok}</td>
22           </tr>
23           <tr>
24             <td>Nama</td>
25             <td>:</td>
26             <td>{brg.nama}</td>
27             <td colspan="3" rowspan="2">
28               <button
29                 className="btn btn-sm btn-warning"
30                 onClick={brg.tambahMesinCuci.bind(this, brg.id)}
31               >
32                 Beli
33               </button>
34             </td>
35           </tr>
36           <tr>
37             <td>Harga</td>

```

	<pre> 38 <td>:</td> 39 <td>{brg.harga}</td> 40 </tr> 41 </table> 42 </div> 43 </center> 44); 45 }; 46 47 export default Post; 48 </pre>
7	<p>Code component/MesinCuci/PostKeranjang.jsx</p> <pre> JS PostKeranjang.jsx 1 X src > component > MesinCuci > JS PostKeranjang.jsx > ... 1 import React from "react"; 2 3 const PostKeranjang = (brg) => { 4 return (5 <tr> 6 <td align="center">{brg.no}</td> 7 <td>{brg.id}</td> 8 <td>{brg.nama}</td> 9 <td>Rp {brg.harga}</td> 10 <td align="center">{brg.qty}</td> 11 <td>Rp {brg.harga * brg.qty}</td> 12 </tr> 13); 14 }; 15 16 export default PostKeranjang; 17 </pre>
8	<p>Code container/MesinCuci/MesinCuci.jsx</p> <pre> JS MesinCuci.jsx 1 X src > container > MesinCuci > JS MesinCuci.jsx > MesinCuci > render 1 import React, { Component } from "react"; 2 import "./MesinCuci.css"; 3 import Post from "../../component/MesinCuci/Post"; 4 5 class MesinCuci extends Component { 6 state = { 7 listMesinCuci: [], 8 }; 9 10 ambilDataDariServerAPI = () => { 11 fetch("http://localhost:3001/mesincuci") 12 .then((response) => response.json()) 13 .then((jsonHasilAmbilDariAPI) => { 14 this.setState({ 15 listMesinCuci: jsonHasilAmbilDariAPI, 16 }); 17 }); 18 }; 19 20 componentDidMount() { 21 this.ambilDataDariServerAPI(); 22 } 23 24 handleGetMesinCuci = (data) => { 25 fetch(`http://localhost:3001/mesincuci/\${data}`, { method: "GET" }) 26 .then((response) => response.json()) 27 .then((res) => { 28 // this.handleUpdateList(data, res); 29 var dataMesinCuci = { ...this.state.insertKeranjang }; 30 dataMesinCuci["id"] = res["id"]; 31 dataMesinCuci["nama"] = res["nama"]; 32 dataMesinCuci["harga"] = res["harga"]; 33 dataMesinCuci["stok"] = res["stok"]; 34 dataMesinCuci["qty"] = 1; 35 this.setState({ 36 insertKeranjang: dataMesinCuci, 37 }); 38 }); 39 }; 40 </pre>


```

38     })
39     .then(() => {
40       this.handlecekKeranjang(data);
41     })
42     .then(() => {
43       this.handleTombolSimpan();
44     });
45   });
46
47   handlecekKeranjang = (data) => {
48     fetch(`http://localhost:3002/keranjang/${data}`, { method: "GET" }).then(
49       (response) => {
50         if (response.ok) {
51           response.json().then((res) => {
52             this.handleUpdateKeranjang(data, res);
53             this.ambilDataDariServerAPI();
54           });
55         } else {
56           this.handleTombolSimpan();
57         }
58       }
59     );
60   });
61
62   handleUpdateKeranjang = (data, res) => {
63     fetch(`http://localhost:3002/keranjang/${data}`, {
64       method: "PUT",
65       headers: {
66         Accept: "application/json",
67         "Content-Type": "application/json",
68       },
69       body: JSON.stringify({
70         id: res["id"],
71         nama: res["nama"],
72         harga: res["harga"],
73         stok: res["stok"],
74         qty: res["qty"] + 1,

```

```

75     }),
76   });
77 };
78
79 handleTombolSimpan = () => {
80   fetch("http://localhost:3002/keranjang", {
81     method: "post",
82     headers: {
83       Accept: "application/json",
84       "Content-Type": "application/json",
85     },
86     body: JSON.stringify(this.state.insertKeranjang),
87   }).then((Response) => {
88     this.ambilDataDariServerAPI();
89   });
90 };
91
92 render() {
93   return (
94     <div className="post-mesincuci">
95       <center>
96         <br />
97         <h2>Daftar Barang</h2>
98         <br />
99       </center>
100       <div className="tgh">
101         {this.state.listMesinCuci.map((MesinCuci) => {
102           return (
103             <Post
104               key={MesinCuci.id}
105               id={MesinCuci.id}
106               nama={MesinCuci.nama}
107               harga={MesinCuci.harga}
108               gambar={MesinCuci.gambar}
109               stok={MesinCuci.stok}
110               tambahMesinCuci={this.handleGetMesinCuci}
111             />

```

```

112         );
113     }}}
114     </div>
115 </div>
116 );
117 }
118 }
119
120 export default MesinCuci;
121

```

9 Code container/MesinCuci/MesinCuci.css

```

# MesinCuci.css X
src > container > MesinCuci > # MesinCuci.css > .mesincuci .table-mesincuci
1  .tgh {
2      width: 1297px;
3      margin: 0 auto;
4      margin-bottom: 10px;
5  }
6
7  .mesincuci {
8      width: 650px;
9      height: 220px;
10     padding: 20px;
11     border: 1px solid black;
12     border-radius: 4px;
13     margin-bottom: 10px;
14     margin-right: 10px;
15     margin-left: 10px;
16     display: inline-block;
17 }
18
19 .gambar-mesincuci {
20     height: 150px;
21     width: 150px;
22     float: left;
23 }
24
25 .gambar-mesincuci img {
26     width: 100%;
27     height: 100%;
28     object-fit: cover;
29 }
30
31 .konten-mesincuci {
32     float: left;
33     width: 200%;
34 }
35
36 .konten-mesincuci div.judul-mesincuci {
37     font-size: 20px;

```

```

38     font-weight: bold;
39     margin-bottom: 10px;
40 }
41
42 .konten-mesincuci .isi-mesincuci {
43     font-size: 25px;
44     margin-right: 100px;
45     width: 50%;
46 }
47
48 .stok-button {
49     font-size: 24px;
50     margin-right: 20px;
51     width: 50%;
52 }
53
54 .btn {
55     color: white;
56     border: none;
57     background: #25d700;
58     width: 90px;
59 }
60
61 .mesincuci .table-mesincuci {
62     font-size: 23px;
63     border: 0px;
64     background-color: azure;
65 }
66

```

10 Code container/MesinCuci/Keranjang.jsx

```

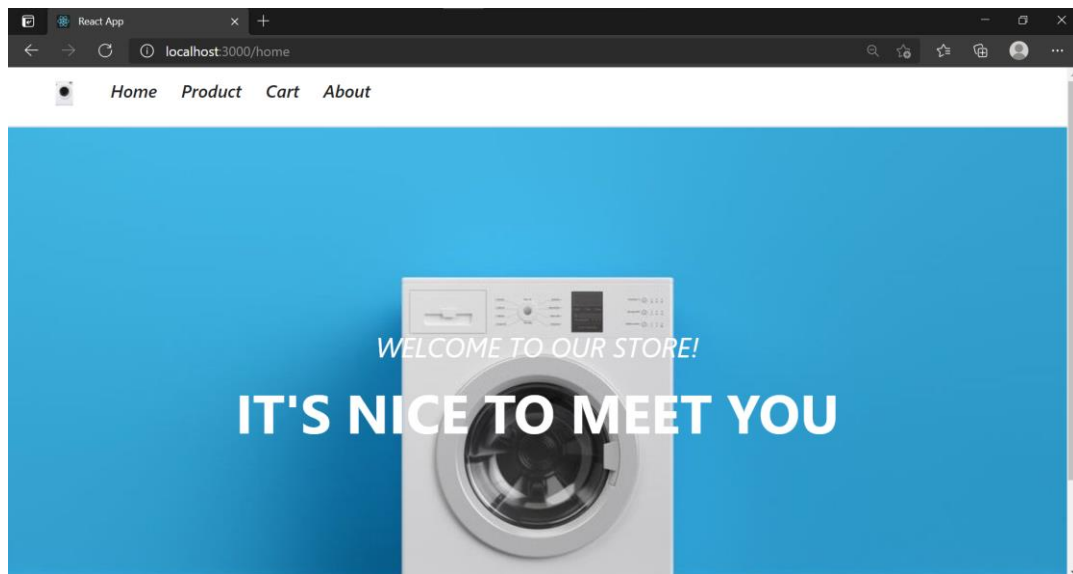
JS Keranjang.jsx 1 X
src > container > MesinCuci > JS Keranjang.jsx > MesinCuci > render
1  import React, { Component } from "react";
2  import "../MesinCuci.css";
3  import PostKeranjang from "../../component/MesinCuci/PostKeranjang";
4
5  class MesinCuci extends Component {
6      state = {
7          listKeranjang: [],
8      };
9
10     ambilDataDariServerAPI = () => {
11         fetch("http://localhost:3002/keranjang")
12             .then((response) => response.json())
13             .then((jsonHasilAmbilDariAPI) => {
14                 this.setState({
15                     listKeranjang: jsonHasilAmbilDariAPI,
16                 });
17             });
18     };
19
20     componentDidMount() {
21         this.ambilDataDariServerAPI();
22     }
23
24     handleTombolSimpan = () => {
25         fetch("http://localhost:3002/keranjang", {
26             method: "post",
27             headers: {
28                 Accept: "application/json",
29                 "Content-Type": "application/json",
30             },
31             body: JSON.stringify(this.state.insertKeranjang),
32         }).then((Response) => {
33             this.ambilDataDariServerAPI();
34         });
35     };
36
37     render() {

```

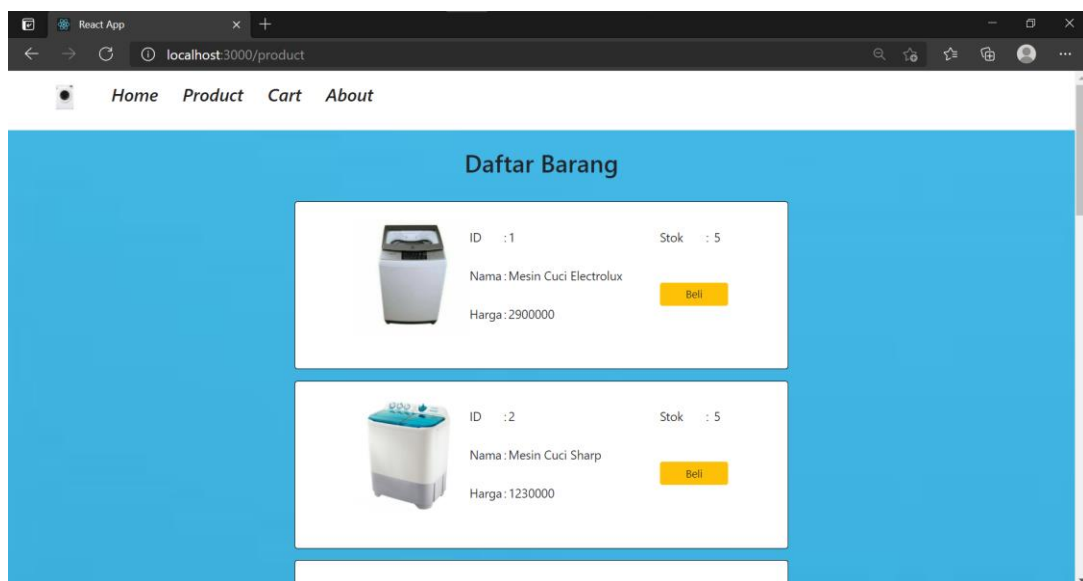
	<pre> 38 var no = 0; 39 var total = 0; 40 return (41 <div className="post-mesincuci"> 42 <center> 43 <h2>Keranjang</h2> 44
 45 </center> 46 <div className="tgh"> 47 <table border="1" cellpadding="5" width="70%" align="center"> 48 <tr> 49 <th align="center">No</th> 50 <th align="center">ID Produk</th> 51 <th align="left">Nama</th> 52 <th align="center">Harga</th> 53 <th align="center">Qty</th> 54 <th align="center">Subtotal</th> 55 </tr> 56 {this.state.listKeranjang.map((mesincuci) => { 57 no += 1; 58 total += mesincuci.harga * mesincuci.qty; 59 return (60 <PostKeranjang 61 no={no} 62 key={mesincuci.id} 63 id={mesincuci.id} 64 nama={mesincuci.nama} 65 harga={mesincuci.harga} 66 gambar={mesincuci.gambar} 67 stok={mesincuci.stok} 68 qty={mesincuci.qty} 69 tambahMesinCuci={this.handleGetMesinCuci} 70 </> 71); 72 })} 73 <tr> 74 <td colspan="5" align="right"> 75 Total :[" "] 76 </td> 77 <td>Rp{total}</td> 78 </tr> 79 </table> 80 </div> 81 </div> 82); 83 } 84 } 85 86 export default MesinCuci; 87 </pre>
12	Untuk menjalankannya, buka terminal lalu ketikkan "npm start"
13	Buka terminal baru dan ketikkan "npx json-server -watch listProduk.json -port 3001"
14	Buka terminal dan ketikkan "npx json-server -watch keranjang.json -port 3002" Lalu refresh pada hasil localhost:3000

15 Hasilnya seperti ini :

Tampilan **Home**



Tampilan **Produk**

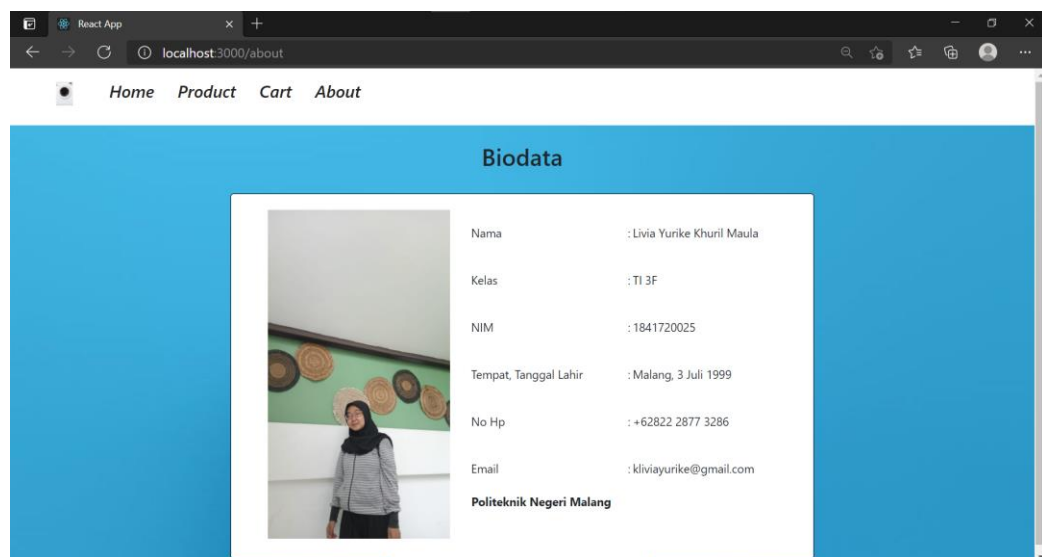


Tampilan Keranjang



No	ID Produk	Nama	Harga	Qty	Subtotal
1	1	Mesin Cuci Electrolux	Rp 2900000	2	Rp 5800000
2	2	Mesin Cuci Sharp	Rp 1230000	2	Rp 2460000
3	3	Mesin Cuci LG	Rp 1200000	1	Rp 1200000
4	4	Mesin Cuci Sanyo	Rp 1000000	1	Rp 1000000
Total :					Rp10460000

Tampilan About



Biodata

Nama : Livia Yurike Khuril Maula

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Link Youtube : <https://youtu.be/VtsqRZuE01I>

Link Github : <https://github.com/liviayurike/Pemrograman-Berbasis-Framework/tree/master/Pertemuan%208>