

# **PEMROGRAMAN BERBASIS FRAMEWORK**

## **UJIAN TENGAH SEMESTER**



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**TI – 3H**

**PROGRAM STUDI TEKNIK INFORMATIKA  
JURUSAN TEKNOLOGI INFORMASI  
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## PRAKTIKUM 1

No	Keterangan
1.	<p>Install npm dengan perintah “npm install -g create-react-app”</p> <pre>D:\&gt;npm install -g create-react-app C:\Users\ASUS\AppData\Roaming\npm\create-react-app -&gt; C:\Users\ASUS\AppData\Roaming\npm\node_modules\create-react-app\index.js + create-react-app@4.0.3 updated 1 package in 4.782s</pre> <p>Membuat project baru dengan nama televisi-app</p> <pre>D:\&gt;create-react-app televisi  Creating a new React app in D:\televisi.  Installing packages. This might take a couple of minutes. Installing react, react-dom, and react-scripts with cra-template...</pre> <p>Lalu menginstall react-router-dom dengan perintah “npm install react-router-dom”</p> <pre>D:\&gt;cd televisi D:\televisi&gt;npm install react-router-dom npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yourself. npm WARN tsutils@3.21.0 requires a peer of typescript@&gt;=2.8.0    &gt;= 3.2.0-dev    &gt;= 3.3.0-dev    &gt;= 3.4.0-dev    &gt;= 3.5.0-dev    &gt;= 3.6.0-dev    &gt;= 3.6.0-beta    &gt;= 3.7.0-dev    &gt;= 3.7.0-beta but none is installed. You must install peer dependencies yourself.</pre>
2.	<p>Membuat file json listProduk.json</p> <pre>televisi-app &gt; listProduk.json &gt; ... 1  {} 2  "televisi": [{ 3    "id": 1, 4    "nama": "Samsung Curved TV 49 Inch", 5    "harga": 8254000, 6    "gambar": "https://www.static-src.com/wcsstore/Indraprastha/images/catalog/full//94/MTA-3709910/samsung_samsung-49ru7300-49-inc", 7    "stok": 3 8  }, 9  { 10   "id": 2, 11   "nama": "Sony LED TV 32 Inch", 12   "harga": 3000000, 13   "gambar": "https://ecs7.tokopedia.net/blog-tokopedia-com/uploads/2020/07/2.-Sony-LED-TV-32-Inch-420x420.jpg", 14   "stok": 3 15  }, 16  { 17   "id": 3, 18   "nama": "COOCOA 40 inch Smart TV", 19   "harga": 3099000, 20   "gambar": "https://migadget.id/wp-content/uploads/2020/09/COOCOA-40S6G-LED-TV-40-inch.jpg", 21   "stok": 3 22  }, 23  { 24   "id": 4, 25   "nama": "TCL Android Smart TV 43 Inch", 26   "harga": 3799000, 27   "gambar": "https://www.static-src.com/wcsstore/Indraprastha/images/catalog/full//93/MTA-4362816/tcl_tcl_43a8_smart_tv_-_43_inch", 28   "stok": 3 29  }, 30  { 31   "id": 5, 32   "nama": "Smart TV LG 43LN5600", 33   "harga": 3750000, 34   "gambar": "https://www.static-src.com/wcsstore/Indraprastha/images/catalog/full//103/MTA-7890465/lg_led_tv_lg_43ln5600_pta_ful", 35   "stok": 3 36  }, 37  }</pre>

```

televisi-app > {} listProduk.json > ...
37 {
38   "id": 6,
39   "nama": "Smart TV Samsung 43TU6900",
40   "harga": 4399000,
41   "gambar": "https://images.tokopedia.net/img/cache/500-square/product-1/2020/9/18/4A76598/4A76598_fb0064a7-6a66-473a-b709-e443ba",
42   "stok": 3
43 },
44 {
45   "id": 7,
46   "nama": "POLYTRON PLD32T711 TV TV",
47   "harga": 2399900,
48   "gambar": "https://cf.shopee.co.id/file/3f4ee7569b032033a0a13823d3d85aae",
49   "stok": 3
50 },
51 {
52   "id": 8,
53   "nama": "Xiaomi Mi TV 4 55 Inch",
54   "harga": 5899000,
55   "gambar": "https://www.sinarbaru.co.id/image/cache/catalog/new_product/xiaomi/mi%20tv%204%2055-550x550.png",
56   "stok": 3
57 },
58 {
59   "id": 9,
60   "nama": "Changhong 75 Inch AV 18D",
61   "harga": 17 Follow link \(ctrl + click\),
62   "gambar": "https://myhartono.com/images/detailed/289/u75H9.jpg",
63   "stok": 3
64 },
65 {
66   "id": 10,
67   "nama": "AQUA LED TV 40 Inch",
68   "harga": 2624000,
69   "gambar": "https://d2pa5gi5n2e1an.cloudfront.net/global/images/product/tvs/AQUA_40_in_LE24AQ8300/AQUA_40_in_LE24AQ8300_L_1.jpg",
70   "stok": 3
71 }
72 ],
73 "comments": [],
74 "profile": {
75   "name": "typicode"
76 }
77 }

```

3. Membuat file json Keranjang.json (Keranjang sebelum klik button membeli barang lain)

```

televisi-app > {} keranjang.json > [ ] keranjang > {} 1
1 {
2   "keranjang": [
3     {
4       "id": 1,
5       "nama": "Samsung Curved TV 49 Inch",
6       "harga": 8254000,
7       "qty": 1
8     },
9     {
10      "id": 2,
11      "nama": "Sony LED TV 32 Inch",
12      "harga": 3000000,
13      "qty": 3
14    }
15  ],
16  "comments": [],
17  "profile": {
18    "name": "typicode"
19  }
20 }

```

4. Membuat Post.jsx di dalam folder Component\Televisi

```
televisi-app > src > component > Televisi > Post.jsx > ...
1  import React from "react";
2
3  const Post = (brg) => {
4    return (
5
6      <div className="televisi">
7        <div className="konten-televisi">
8          <div className="gambar-televisi"><img src={brg.gambar} width="150" height="150" alt="" /></div>
9          <div className="isi-televisi">
10             ID : {brg.id}<br />
11             Nama : {brg.nama}<br />
12             Harga : {brg.harga}<br />
13             Stok : {brg.stok}
14           </div>
15           <button className="btn btn-sm btn-warning" onClick={brg.tambahTelevisi.bind(this, brg.id)}>
16         </div>
17       </div>
18     )
19   }
20 }
21
22 export default Post;
```

5. Membuat PostKeranjang.jsx di dalam folder Component\Televisi

```
televisi-app > src > component > Televisi > PostKeranjang.jsx > ...
1  import React from "react";
2
3  const PostKeranjang = (brg) => {
4    return (
5
6      <tr>
7        <td align="center">{brg.no}</td>
8        <td align="center">{brg.id}</td>
9        <td align="center">{brg.nama}</td>
10       <td align="center">{brg.harga}</td>
11       <td align="center">{brg.qty}</td>
12       <td align="center">{brg.harga * brg.qty}</td>
13     </tr>
14   )
15 }
16 export default PostKeranjang;
```

6. Membuat Keranjang.jsx di dalam folder Container\Televisi

```
televisi-app > src > container > Televisi > Keranjang.jsx > ...
1  import React, { Component } from "react";
2  import './Televisi.css';
3  import PostKeranjang from "../../component/Televisi/PostKeranjang";
4
5  class Televisi 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       })
```

```

31     body: JSON.stringify(this.state.insertKeranjang)
32   })
33   .then((Response) => {
34     this.ambilDataDariServerAPI();
35   })
36 }
37
38 render() {
39   var no = 0;
40   var total = 0;
41   return (
42     <div className="post-televisi">
43       (
44         <div className="form pb-2 border-bottom">
45           <button type="submit" className="btn btn-primary" onClick={this.handleTombolSimpan}>Simpan
46         </div>
47         <center><h1>Keranjang</h1></center>
48         <div className="tgh">
49           <table border="1" cellpadding="5" width="100%">
50             <tr>
51               <th align="center">No</th>
52               <th align="center">ID Produk</th>
53               <th align="left">Nama</th>
54               <th align="center">Harga</th>
55               <th align="center">Qty</th>
56               <th align="center">Subtotal</th>
57             </tr>
58
59             {this.state.listKeranjang.map(televisi => {
60               no += 1;
61               total += televisi.harga * televisi.qty
62               return (
63                 <PostKeranjang
64                   no={no}
65                   key={televisi.id}
66                   id={televisi.id}
67                   nama={televisi.nama}
68                   harga={televisi.harga}
69                   gambar={televisi.gambar}
70                   stok={televisi.stok}
71                   qty={televisi.qty}
72                   tambahTelevisi={this.handleGetTelevisi} />
73               )
74             )}
75           <tr>
76             <td colspan="5" align="right">Total : </td>
77             <td align="center">{total}</td>
78           </tr>
79         </table>
80       </div>
81     </div>
82   )
83 }
84
85 }
86
87 export default Televisi;

```

## 7. Membuat Keranjang.jsx di dalam folder Container\Televisi

```

televisi-app > src > container > Televisi > Keranjang.jsx > ...
1  import React, { Component } from "react";
2  import './Televisi.css';
3  import PostKeranjang from "../../component/Televisi/PostKeranjang";
4
5  class Televisi 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   })
33   .then((Response) => {
34     this.ambilDataDariServerAPI();
35   });
36 }
37
38 render() {
39   var no = 0;
40   var total = 0;
41   return (
42     <div className="post-televisi">
43       {
44         /* <div className="form pb-2 border-bottom">
45           <button type="submit" className="btn btn-primary" onClick={this.handleTombolSimpan}>Sim
46         </div> */
47       <center><h2>Keranjang</h2></center>
48       <div className="tgh">
49         <table border="1" cellpadding="5" width="100%">
50           <tr>
51             <th align="center">No</th>
52             <th align="center">ID Produk</th>
53             <th align="left">Nama</th>
54             <th align="center">Harga</th>
55             <th align="center">Qty</th>
56             <th align="center">Subtotal</th>
57           </tr>
58
59           {this.state.listKeranjang.map(televisi => {
60             no += 1;
61             total+=televisi.harga*televisi.qty
62             return (
63               <PostKeranjang
64                 no={no}
65                 key={televisi.id}
66                 id={televisi.id}
67                 nama={televisi.nama}
68                 harga={televisi.harga}
69                 gambar={televisi.gambar}
70                 stok={televisi.stok}
71                 qty={televisi.qty}
72                 tambahTelevisi={this.handleGetTelevisi} />
73             )
74           })}
75         <tr>
76           <td colspan="5" align="right">Total : </td>
77           <td align="center">{total}</td>
78         </tr>
79       </table>
80     </div>
81   </div>
82 )
83 }
84 }
85 }
86
87 export default Televisi;

```

## 8. Membuat CSS Televisi



```

1  .tgh {
2    width: 1297px;
3    margin: 0 auto;
4    margin-bottom: 10px;
5  }
6
7  .televisi {
8    width: 412px;
9    padding: 20px;
10   border: 1px solid black;
11   border-radius: 4px;
12   margin-bottom: 10px;
13   margin-right: 10px;
14   margin-left: 10px;
15   display: inline-block;
16 }
17
18 .gambar-televisi {
19   height: 80px;
20   width: 80px;
21   margin-right: 20px;
22   float: left;
23 }
24
25 .gambar-televisi img {
26   width: 100%;
27   height: 100%;
28   object-fit: cover;
29 }

```

```

31 .konten-televisi {
32   float: left;
33   width: 100%;
34 }
35
36 .konten-televisi div.judul-televisi {
37   font-size: 20px;
38   font-weight: bold;
39   margin-bottom: 10px;
40 }
41
42 .konten-televisi .isi-televisi {
43   font-size: 16px;
44   margin-right: 20px;
45   width: 100%;
46 }
47
48
49 /* .btn {
50   color:white;
51   border:none;
52   background:#25d700;
53   width:90px;
54 } */

```

## 9. App.js

```

televisi-app > src > JS App.js > [0] About
1  import React from 'react';
2  import './App.css';
3  import {
4    BrowserRouter as Router,
5    Switch,
6    Route,
7    Link
8  } from "react-router-dom";
9  import Televisi from "../container/Televisi/Televisi";
10 import Keranjang from "../container/Televisi/Keranjang";
11
12 function App() {
13   return (
14     <Router>
15       <div>
16
17         <ul className="menu">
18           <li>
19             <Link to="/"><span>Home</span></Link>
20           </li>
21           <li>
22             <Link to="/list-product"><span>List Produk</span></Link>
23           </li>
24           <li>
25             <Link to="/keranjang"><span>Keranjang</span></Link>
26           </li>
27           <li>
28             <Link to="/about"><span>About</span></Link>
29           </li>
30         </ul>

```

```

32     <Switch>
33       <Route exact path="/">
34         <Home />
35       </Route>
36       <Route path="/list-product">
37         <Products />
38       </Route>
39       <Route path="/keranjang">
40         <Keranjangs />
41       </Route>
42       <Route path="/about">
43         <About />
44       </Route>
45     </Switch>
46   </div>
47 </Router>
48 );
49 }
50
51 function Home() {
52   return (
53     <div>
54       <center><h2>Selamat Datang di Toko Televisi!</h2></center>
55     </div>
56   );
57 }
58
59 const About = () => {
60   return (
61     <div>
62       <center><h2>Biografi</h2></center>
63       <section class="home_banner_area">
64         <div class="container box_1628">
65           <div class="banner_inner d-flex align-items-center">
66             <div class="banner_content">
67               <div class="media">
68                 <div class="d-flex">
69                   <img src={require("../s.jpg")} width="300" alt="" />
70                 </div>
71               <div class="media-body">
72                 <div class="personal_text">
73                   <h3>Andhika Utama</h3>
74                   <h4>Mahasiswa Politeknik Negeri Malang</h4>
75                   <p></p>
76                   <ul class="list basic_info">
77                     <li><a href="#"><i class="lnr lnr-calendar-full"></i> 04 Agustus 2000</a></li>
78                     <li><a href="#"><i class="lnr lnr-envelope"></i> andhikautama04@gmail.com</a></li>
79                   </ul>
80                 </div>
81               </div>
82             </div>
83           </div>
84         </div>
85       </section>
86     </div>
87   );
88 }
89
90
91 function Products() {
92   return (
93     <div>
94       <Televisi />
95     </div>
96   )
97 }
98
99 function Keranjangs() {
100   return (
101     <div>
102       <Keranjang />
103     </div>
104   )
105 }
106
107 export default App;
108

```



10. App.css

```

1  .App {
2    text-align: center;
3  }
4
5  .App-logo {
6    height: 40vmin;
7    pointer-events: none;
8  }
9
10 @media (prefers-reduced-motion: no-preference) {
11   .App-logo {
12     animation: App-logo-spin infinite 20s linear;
13   }
14 }
15
16 .App-header {
17   background-color: #2e3436;
18   min-height: 100vh;
19   display: flex;
20   flex-direction: column;
21   align-items: center;
22   justify-content: center;
23   font-size: calc(10px + 2vmin);
24   color: white;
25 }
26
27 .App-link {
28   color: #61dafb;
29 }
30
31 @keyframes App-logo-spin {
32   from {
33     transform: rotate(0deg);
34   }
35   to {
36     transform: rotate(360deg);
37   }
38 }
39
40 .menu {
41   list-style-type: none;
42   margin: 0;
43   padding: 0;
44   overflow: hidden;
45   background-color: #333;
46   border: 1px solid #333;
47 }
48
49 .menu li {
50   float: left;
51 }
52
53 .menu li a {
54   display: block;
55   color: white;
56   text-align: center;
57   padding: 14px 16px;
58   text-decoration: none;
59   transition: 1s;
60 }
61
62 .menu li a:hover {
63   background-color: #fff;
64   color: black;
65 }
66
67 .btn {
68   border: none;
69   background: #ff5e00;
70   padding: 10px;
71   margin-top: 20px;
72   width: 100%;
73   cursor: pointer;
74   color: #fff;
75   position: relative;
76   transition: 1s;
77 }
78
79 .btn:hover {
80   background: #ff5e00;
81 }
82
83 h2 {
84   margin-top: 5px;
85   color: #000080;
86   font-style: italic;
87 }
88
89 th {
90   text-align: center;
91 }

```

11. Lakukan perintah “json-server --watch listProduk.json --port 3001”. ini digunakan nanti untuk membaca file listProduk.json yang telah kita buat

```
D:\00. PENTINGNYA KULIAH\06. Semester 6\01. Senin\Pemrograman Berbasis Framework\UTS\Televisi\televisi-app>json-server -
-watch listProduk.json --port 3001

\{^_^}/ hi!

Loading listProduk.json
Done

Resources
http://localhost:3001/televisi
http://localhost:3001/comments
http://localhost:3001/profile

Home
http://localhost:3001
```

## 12. Ketik npm start untuk menjalankan program

```
PS D:\00. PENTINGNYA KULIAH\06. Semester 6\01. Senin\Pemrograman Berbasis Framework\UTS\Televisi\televisi-app> npm start
Compiled with warnings.

./src/App.js
Line 113:14: The href attribute requires a valid value to be accessible. Provide a valid, navigable address as the href value.
```

## 13. Halaman Awal



## 14. Halaman List Produk



Mencoba membeli barang nomor 5



15. Halaman Keranjang

[Home](#) [List Produk](#) [Keranjang](#) [About](#)

*Keranjang*

No	ID Produk	Nama	Harga	Qty	Subtotal
1	1	Samsung Curved TV 49 Inch	8254000	1	8254000
2	2	Sony LED TV 32 Inch	3000000	3	9000000
Total :					17254000

Barang no 5 yang dibeli

[Home](#) [List Produk](#) [Keranjang](#) [About](#)

*Keranjang*

No	ID Produk	Nama	Harga	Qty	Subtotal
1	1	Samsung Curved TV 49 Inch	8254000	1	8254000
2	2	Sony LED TV 32 Inch	3000000	3	9000000
3	5	Smart TV LG 43LN5600	3750000	2	7500000
Total :					24754000