

```

1 import React from 'react';
2 import './App.css';
3
4 type FeeClassification = {
5   name: string;
6   description: string;
7   unitPrice: number;
8   numOfPeople: number;
9   totalPrice: number;
10 }
11
12 type DetailProps = {
13   classification: FeeClassification;
14   onNumOfPeopleChange: (num: number) => void;
15 }
16
17 const Detail: React.FC<DetailProps> = props => {
18   const onNumOfPeopleChange = (e: React.ChangeEvent<HTMLSelectElement>) => {
19     const num: number = Number(e.target.value);
20     props.onNumOfPeopleChange(num);
21   }
22
23   return (
24     <div>
25       <div className="classification-name">{props.classification.name}</div>
26       <div className="description">{props.classification.description}</div>
27       <div className="unit-price">{props.classification.unitPrice} 円</div>
28       <div className="num-people">
29         <select value={props.classification.numOfPeople} onChange={e => onNumOfPeopleChange(e)}>
30           <option value="0">0</option>
31           <option value="1">1</option>
32           <option value="2">2</option>
33           <option value="3">3</option>
34           <option value="4">4</option>
35         </select>
36         <span>名</span>
37       </div>
38     </div>
39   );
40 }
41
42 type SummaryProps = {
43   numOfPeople: number;
44   totalAmount: number;
45 }
46
47 const Summary: React.FC<SummaryProps> = props => {
48   return (
49     <div>
50       <div className="party">
51         <input type="text" className="party" value={props.numOfPeople} />
52         <span>名様</span>
53       </div>
54       <div className="total-amount">
55         <span>合計</span>
56         <input type="text" className="total-amount" value={props.totalAmount} />
57         <span>円</span>
58       </div>
59     </div>
60   );
61 }
62
63 type AdmissionFeeCalculatorState = {
64   feeClassifications: FeeClassification[];

```

```

65 }
66
67 class AdmissionFeeCalculator extends React.Component<{}, AdmissionFeeCalculatorState> {
68
69   constructor(props: {}) {
70     super(props);
71     const adults: FeeClassification = {
72       name: "大人",
73       description: "",
74       unitPrice: 1000,
75       numOfPeople: 0,
76       totalPrice: 0,
77     };
78     const students: FeeClassification = {
79       name: "学生",
80       description: "中学生・高校生",
81       unitPrice: 700,
82       numOfPeople: 0,
83       totalPrice: 0,
84     };
85     const children: FeeClassification = {
86       name: "子ども",
87       description: "小校生",
88       unitPrice: 300,
89       numOfPeople: 0,
90       totalPrice: 0,
91     };
92     const infants: FeeClassification = {
93       name: "幼児",
94       description: "未就学",
95       unitPrice: 0,
96       numOfPeople: 0,
97       totalPrice: 0,
98     };
99     this.state = { feeClassifications: [adults, students, children, infants] };
100   }
101
102   handleNumOfPeopleChange(idx: number, num: number) {
103     const currentFC = this.state.feeClassifications[idx];
104     const newTotalPrice = currentFC.unitPrice * num;
105     // 人数と合計額以外は既存の値をコピー
106     const newFC: FeeClassification =
107       Object.assign({}, currentFC, { numOfPeople: num, totalPrice: newTotalPrice });
108     // 新たな配列を生成
109     const feeClassifications = this.state.feeClassifications.slice();
110     feeClassifications[idx] = newFC;
111
112     // stateの更新
113     this.setState({ feeClassifications: feeClassifications });
114   }
115
116   render() {
117     const details = this.state.feeClassifications.map((fc, idx) => {
118       return (
119         <Detail key={idx.toString()} classification={fc}
120           onNumOfPeopleChange={n => this.handleNumOfPeopleChange(idx, n)} />
121       );
122     });
123     const numOfPeople = this.state.feeClassifications.map(fc => fc.numOfPeople).reduce((p, c) => p + c);
124     const totalAmount = this.state.feeClassifications.map(fc => fc.totalPrice).reduce((p, c) => p + c);
125
126     return (
127       <
128         {details}

```

App.tsx

```
129     <Summary numOfPeople={numOfPeople} totalAmount={totalAmount} />
130   </>
131 );
132 }
133 }
134
135 const App: React.FC = () => {
136   return (
137     <div className="main">
138       <AdmissionFeeCalculator />
139     </div>
140   );
141 }
142
143 export default App;
```