

8.adding normal js logic to our components

- Recall:

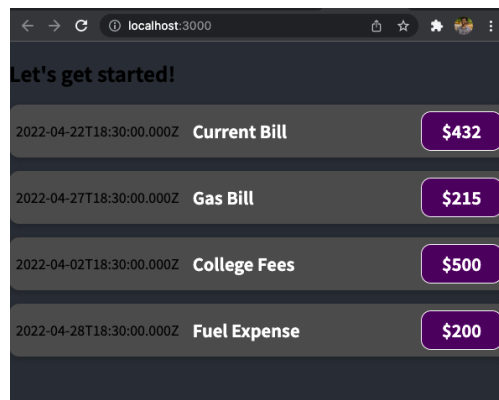
```
src > App.js > App
23
24   return (
25     <div>
26       <h2>Let's get started!</h2>
27       <ExpenseItem title={expenses[0].title} amount={expenses[0].amount} date={expenses[0].date}>
28     </ExpenseItem>
29
30     <ExpenseItem title={expenses[1].title} amount={expenses[1].amount} date={expenses[1].date}>
31     </ExpenseItem>
32
33     <ExpenseItem title={expenses[2].title} amount={expenses[2].amount} date={expenses[2].date}>
34     </ExpenseItem>
35
36     <ExpenseItem title={expenses[3].title} amount={expenses[3].amount} date={expenses[3].date}>
37     </ExpenseItem>
38   </div>
39 );
40 }
41
42 export default App;
```

- We have used our custom component along with it we have also sent some data as an attribute

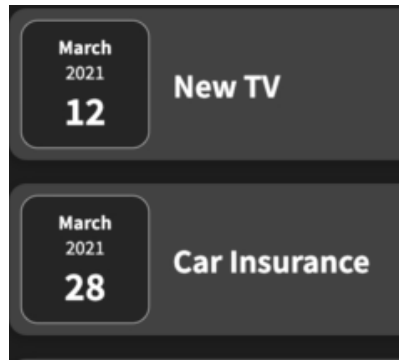
```
src > components > ExpenseItem.js > ExpenseItem
1  import './ExpenseItem.css';
2
3  function ExpenseItem(props) {
4    return (
5      <div className='expense-item'>
6        <div>{props.date.toISOString()}</div>
7        <div className='expense-item__description'>
8          <h2>{props.title}</h2>
9          <div className='expense-item__price'>${props.amount}</div>
10        </div>
11      </div>
12    );
13  }
14
15  export default ExpenseItem;
```

- We have received the data that is sent as attributes using a parameter named props

- And the result is



- Now consider a situation if we want the date to look like this



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- Js date object some built-in methods to extract the month year and date
- We have to use that methods and logic in our component to make it look like this
 - Now let us see how these methods extract month and handle these dates

Syntax

Date.toLocaleString(locales, options)

```
let date = new Date(Date.UTC(2012, 11, 20, 3, 0, 0));

// Request a weekday along with a long date
let options = { weekday: 'long', year: 'numeric', month: 'long', day: 'numeric' };

console.log(date.toLocaleString('de-DE', options));
// → "Donnerstag, 20. Dezember 2012"
```

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- From this we could see that the first parameter locales is a variable of string and the second parameter 'options' is an object
- Now the below can be change by using the above logic

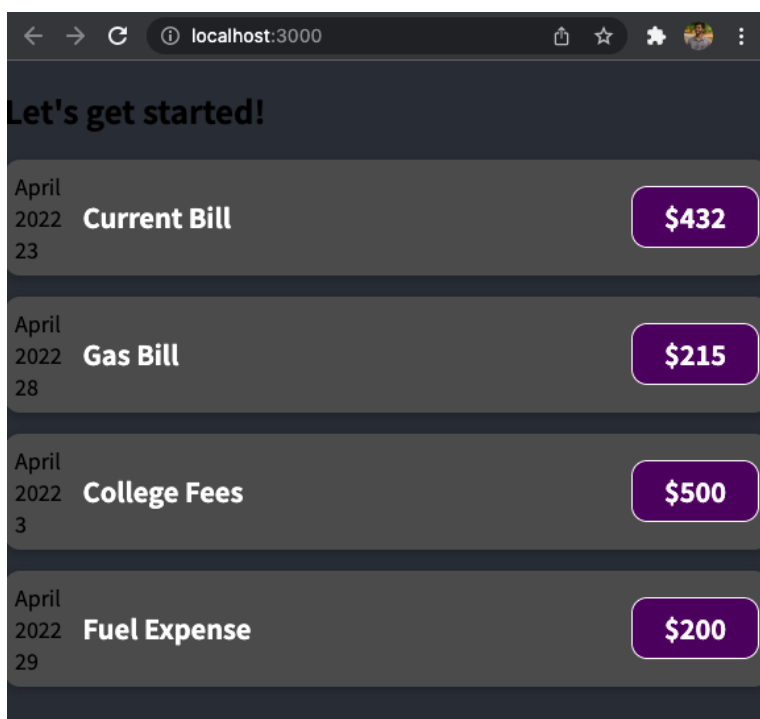
```
1 import './ExpenseItem.css';
2
3 function ExpenseItem(props) {
4   return (
5     <div className='expense-item'>
6       <div>Month</div>
7       <div>Year</div>
8       <div>Day</div>
9
10      <div className='expense-item__description'>
11        <h2>{props.title}</h2>
12        <div className='expense-item__price'>${props.amount}</div>
13      </div>
14    </div>
15  );
16 }
17
18 export default ExpenseItem;
```

○

```

src > components > ExpenseItem.js > ExpenseItem
1  import './ExpenseItem.css';
2
3  function ExpenseItem(props) {
4    return (
5      <div className="expense-item">
6        <div>
7          <div>{props.date.toLocaleString("en-US", { month: "long" })}</div>
8          <div>{props.date.toLocaleString("en-US", { year: "numeric" })}</div>
9          <div>{props.date.toLocaleString("en-US", { day: "numeric" })}</div>
10         </div>
11
12         <div className="expense-item__description">
13           <h2>{props.title}</h2>
14           <div className="expense-item__price">${props.amount}</div>
15         </div>
16       </div>
17     );
18   }
19
20   export default ExpenseItem;
21

```



- Instead of writing every logic inside the JSX code we could do this, this is the better practice

```
src > components > ExpenseItem.js > ExpenseItem > year
1  import './ExpenseItem.css';
2
3  function ExpenseItem(props) {
4      const day=props.date.toLocaleString("en-US", { day: "numeric" })
5      const month=props.date.toLocaleString("en-US", { month: "long" })
6      const year=props.date.toLocaleString("en-US", { year: "numeric" })
7      return (
8          <div className="expense-item">
9              <div>
10                 <div>{month}</div>
11                 <div>{year}</div>
12                 <div>{day}</div>
13             </div>
14
15             <div className="expense-item__description">
16                 <h2>{props.title}</h2>
17                 <div className="expense-item__price">${props.amount}</div>
18             </div>
19         </div>
20     );
21 }
22
23 export default ExpenseItem;
24
```