

```

1 // ===== From Handelling and Data pass to Parent and Child =====
2 /*
3 ***** Focus on From Handelling *****
4
5 Data pass to parent component to child by props
6 Down word.....
7
8 function ParentComponent(){
9   return(
10     < Child data={value} />
11   );
12 }
13 function ChildComponenet( props ){
14   return(
15     .....work with the data by props
16   );
17 }
18
19 Up word data Pass by execution function on Child Component
20 1) parent functon Has to a function
21 2) this function pass pass by function pointer
22 3) that pointer execution the inside the child component
23 4) the set the value by Props...and Data pass to parent Again
24
25 function ParentComponent(){
26
27   function getValueFromChild( Value ){
28
29     // let's send an object to parent by value
30     const valueObj = {
31       ...Value,
32     }
33     console.log(valueObj); // see the child pass value....
34
35   }
36   return(
37     < Child onChangeValue={getValueFromChild} />
38   );
39 }
40 *****
41 function ChildComponenet( props ){
42   const Person = {
43     name: "Mehedi",
44     age: 20;
45   }
46   function clickButton(){
47     props.onChangeValue(Person);
48   }
49   return(
50     .....work with the data by props
51     <button onClick={chlickButton} > </button>
52   );
53 }
54
55
56 ===== From input taken and get the input vallue =====
57 see the input From file.... bellow
58
59 */
60
61 // ===== index.js START =====
62
63 import React from 'react';
64 import ReactDOM from 'react-dom';
65 import App from './App';
66
67 ReactDOM.render(<App />, document.getElementById('root'));

```

```

68 //***** END *****
69
70
71 //===== App.js START =====
72 import './App.css';
73 // import the Custom Component file
74 import React, {useState} from 'react';
75
76 import ExpencesItem from './component/Expense/ExpencesItem';
77 import NewExpense from './component/NewExpense/NewExpense';
78 import ExpenseFilter from './component/Expense/ExpenseFilter'
79 function App() {
80     const expenseArr = [
81         // thsi array contain some object
82         {
83             id: 'e1',
84             title: "Car Buy",
85             price: 300000,
86             date: new Date(2020, 3, 5),
87         },
88         {
89             id: 'e2',
90             title: "Book Buy",
91             price: 300,
92             date: new Date(2021, 4, 6),
93         },
94         {
95             id: 'e3',
96             title: "Phone Buy",
97             price: 3000,
98             date: new Date(2023, 1, 3),
99         },
100     ];
101
102
103     function addExpenseHandler(expense){
104         console.log("App.js run");
105         console.log(expense);
106     }
107     const [filteredYear, seteFilteredYear] = useState('2020');
108     function filterChangeHandler(selectedYear){
109         seteFilteredYear(selectedYear);
110     }
111     return (
112         <div >
113             /* When New Expense component Call that time Excute onSide this pass function */
114             <NewExpense onAddExpense={addExpenseHandler}> </NewExpense>
115
116             <div className="wrap-item">
117                 <ExpenseFilter selected={filteredYear} onChangeFilter={filterChangeHandler} />
118                 <ExpencesItem
119                     title={expenseArr[0].title}
120                     price={expenseArr[0].price}
121                     date={expenseArr[0].date}
122                 ></ExpencesItem>
123                 <ExpencesItem
124                     title={expenseArr[1].title}
125                     price={expenseArr[1].price}
126                     date={expenseArr[1].date}
127                 ></ExpencesItem>
128                 <ExpencesItem
129                     title={expenseArr[2].title}
130                     price={expenseArr[2].price}
131                     date={expenseArr[2].date}
132                 ></ExpencesItem>
133
134             </div>
135

```

```

136     </div>
137   );
138 }
139
140
141 export default App;
142
143
144 //***** END *****
145
146
147 //===== Expense Filter.js connect ot App.js =====
148
149
150 import './ExpenseFilter.css'
151 function ExpenseFilter(props){
152
153   function dropdownChangeHandler(event){
154
155     props.onChangeFilter(event.target.value);
156   };
157
158   return(
159     <div className="expense-filter">
160       <div className="expense-filter_control">
161         <label>Filter by year</label>
162         <select value={props.selected} onChange={dropdownChangeHandler}>
163           <option value='2022'>2022</option>
164           <option value='2023'>2023</option>
165           <option value='2024'>2024</option>
166           <option value='2025'>2025</option>
167
168         </select>
169       </div>
170     </div>
171   );
172 };
173 export default ExpenseFilter;
174
175 //***** END *****
176
177 //===== ExpencesItem.js START =====
178
179 // here useState hooks use to update change of variable
180
181 import React, { useState } from 'react';
182
183 // import CSS file
184 import './ExpencesItem.css';
185 // import the Date component file
186 import ExpenseDate from './ExpenseDate';
187
188 function ExpencesItem(props) {
189   // Here the onClick function Body
190
191   // let title = props.title;
192
193   // Here Array [variable, fuction ] = useState(take_default_variable)
194
195   const [title, setTitle] = useState(props.title);
196
197   const clickHandler = () => {
198
199     //title = "Update Title";
200
201     // Here value change by function
202     setTitle("Update");
203
204     /* only Set the title will not show to website

```

```

204 / Only Set the title will not show to website
205 When the Component Call That time Read At a time but => Title variable
206 After button Click How we can Set and Update value it is Our concern
207 */
208 console.log(title);
209 }
210
211 return (
212   <div className="container">
213     <div className="date-item">
214       <ExpenseDate date={props.date}> </ExpenseDate>
215     </div>
216     <div className="name-item">{title /* set variable */}</div>
217     <div className="price-item">${props.price}</div>
218     /* <button onClick = {} => { console.log("Clicked")}> Clicked Me</button> */
219     <button onClick={clickHandler} > Change title </button>
220     /*
221       1) Calling not use the ()
222       2) COZ we just point the function Only
223       3) if We use (), When the this Item component call the the line fun excute that time instatly
224       4) But we want to excute when the user click the button got it??
225     */
226   </div>
227 );
228 }
229
230 export default ExpencesItem;
231
232 //***** END *****
233
234 //===== ExpencesDate.js START =====
235
236 // CSS file import for use this....
237 import './ExpenseDate.css';
238 // we can use CSS on this file
239
240 function ExpenseDate(props) {
241   // use some javascript code..
242   // date variable should be base on the given (props variable) name
243
244   const month = props.date.toLocaleString('en-US', { month: 'long' });
245   const day = props.date.toLocaleString('en-US', { day: '2-digit' });
246   const Year = props.date.getFullYear();
247
248   return (
249     <div>
250       <div> {month} </div>
251       <div>{Year}</div>
252       <div>{day}</div>
253     </div>
254   );
255 }
256
257 export default ExpenseDate;
258
259 //***** END *****
260
261 //===== NewExpense.js =====
262
263 import React from 'react';
264 import './NewExpense.css'
265 import NewExpenseForm from './NewExpenseForm'
266
267 const NewExpense = (props) => {
268   // this prop send data to App.js means parent component
269 }

```

```

273
274 // Collect the Expense data from child components NewExpenseFrom.js
275
276 function saveExpenseDataHandler(enteredExpenseData){
277   const ExpenseData = {
278     ...enteredExpenseData,
279     id: Math.random().toString(),
280   }
281   // console.log(ExpenseData);
282   // Data pass to Parent App.js component by Executing Function...
283   props.onAddExpense(ExpenseData);
284 }
285
286 return (
287   <div className="form-section" >
288
289     <NewExpenseFrom onSaveExpenseDate={saveExpenseDataHandler}/>
290
291   </div>
292 );
293 };
294 };
295
296 export default NewExpense;
297
298
299 //***** End *****
300
301 //===== NewExpenseFrom.js =====
302
303 /*
304   How we can get the input value <= FORM
305
306   1) inside the < input set onChange = {function_pointer} >
307   2) inside the component function create Handler_body(Take_event)
308   3) The (event) Help to get the input values from
309   4) console.log(event.target.value);
310   5) this event.target.value gives Always String ...
311
312   After Getting values of input to Store
313
314   1) we have to use useState
315   2) useState help to track the change value
316
317   Handelling Form submission
318   1) best practice is don't use onClick => inside button is COZ
319   2) when submit button click that time from total submit
320   3) <form onSubmit = { submitHandler } > .....
321   4) create function submitHandler() { body } ... give instruction ....
322   5) submitHandler(event){event.preventDefault();} stop to page reload
323   6) inside the submitHandler create object and group of the form data and work with that.
324
325   Two way binding .. means reset the form
326   1) inside the < input value={enteredTitle} />
327   2) inside the submitHandler() After the object{}
328   3) new hooks value call to reset the input Area...
329
330   App.js => ExpenseItem.js => NewExpense.js => NewExpenseFrom.js
331
332   Now to we can Data pass parent to child by Props NewExpense.js => NewExpenseFrom.js
333
334   But How we can Data pass Child to Parent NewExpense.js <= NewExpenseFrom
335   1) Up word Data pass..
336   2) When Component Call that time Pass a Function pointer to Execute the Parent function
337   /
338   ComponentParent(){
339     Parent(){
340       .....Task

```

```

341     }
342     return(
343         < ComponentChild onParentTask = {Parent} />
344     );
345 }
346
347 ComponentChild(props){
348     ....
349     ...
350     ..Task
351     ....
352     props.Parent(DataPassToParent);
353
354     return(
355         ....
356     );
357 }
358
359 3) Child component excute the Parent fuction and receive Data...
360
361
362
363
364
365 */
366 import Ract, { useState } from 'react';
367 import "./NewExpenseForm.css";
368
369 function NewExpenseFrom(props) {
370     // here props only use to send data to parent component NewExpense.js
371
372     // use the useState React hooks and value seperate like
373     // [variable, function] = useState(default_value);
374     // we can use seperate useState for each input changees..
375
376     const [enteredTitle, setEnteredTitle] = useState("");
377     const [enteredAmount, setEnteredAmount] = useState("");
378     const [enteredDate, setEnteredDate] = useState("");
379
380     const titleChangeHandler = (event) => {
381
382         // console.log(event.target.value);
383
384         // When the titleChangeHandler call that time
385         // call the setEnteredTitle function initializes the Update input
386         setEnteredTitle(event.target.value);
387     }
388     const amoutChangeHandler = (event) =>{
389
390         setEnteredAmount(event.target.value);
391     }
392
393     const dateChangeHandler = (event) =>{
394
395         setEnteredDate(event.target.value);
396     }
397     const submitHandler = (event) =>{
398         event.preventDefault(); // to stop page realod
399         // create object
400         // console.log("Mehedi Hasna");
401         const expenseData = {
402             title: enteredTitle,
403             amout: enteredAmount,
404             date: new Date(enteredDate),
405         };
406
407         // console.log(expenseData);
408

```

```

409 // props only use here to Send the data to Parent NewExpense.js <= NewExpenseFrom.js
410 props.onSaveExpenseDate(expenseData);
411
412 // New call to reset value set...with the help of <input vlaue={} />
413 setEnteredTitle("");
414 setEnteredAmount("");
415 setEnteredDate("");
416 }
417 return (
418
419
420     /*onSubmit={submitHandler}*/
421     <from >
422     <div className="new-expense_controls">
423         <div className="new-expense_control">
424             <label>Title</label>
425             <input type="text" value={enteredTitle} onChange={titleChangeHandler /* funcation call */ />
426         </div>
427         <div className="new-expense_control">
428             <label>Amount</label>
429             <input type="number" min="0.01" step="0.01" value={enteredAmount} onChange = {amoutChangeHandler} />
430         </div>
431         <div className="new-expense_control">
432             <label>Date</label>
433             <input type="date" min="2022-01-01" max="2025-12-31" value={enteredDate} onChange = {dateChangeHandler} />
434         </div>
435     </div>
436     <div className="new-expense_actions">
437         <button type='submit' onClick={submitHandler} >Add Expense</button>
438     </div>
439
440
441 </from>
442
443 );
444 };
445
446 export default NewExpenseFrom;
447
448 //***** END *****
449
450
451
452 //***** EXPencesItem.css *****
453 /*
454 *{
455     margin: 0;
456     padding: 0;
457 }
458 .container{
459     width: 50%;
460     height: 300px;
461     margin: 0 auto;
462 }
463 .heading{
464     font-size: 25px;
465     background-color: gold;
466 }
467
468 /* we can use media query for verity devices */
469
470 //***** END *****

```