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## Uncontrolled Form

```
import { useRef } from "react";

const Form_2 = () => {
  const nameRef = useRef();
  const emailRef = useRef();
  const messageRef = useRef();

  function handleSubmit(event) {
    event.preventDefault();
    console.log("name:", nameRef.current.value);
    console.log("email:", emailRef.current.value);
    console.log("message:", messageRef.current.value);
  }

  return (
    <div className="form2" style={{ height: "73vh" }}>
      <h1>Uncontrolled form</h1>
      <form onSubmit={handleSubmit}>
        <div style={{ marginBottom: "25px" }}>
          <label htmlFor="name" style={{ display: "block" }}>
            Name
          </label>
          <input id="name" type="text" ref={nameRef} />
        </div>
        <div style={{ marginBottom: "25px" }}>
```

```

        <label htmlFor="email" style={{ display: "block" }}>
            Email
        </label>
        <input id="email" type="email" ref={emailRef} />
    </div>
    <div style={{ marginBottom: "25px" }}>
        <label htmlFor="message" style={{ display: "block" }}>
            Message
        </label>
        <textarea id="message" ref={messageRef} />
    </div>
    <button type="submit">Submit</button>
</form>
</div>
);
};

export default Form_2;

```

## Javascript Objects

```

const car = {
    brand: "jaguar XF",
    colour: "black",
    engine: "1997",
    torque: "2500rpm",

    purchased: {
        name: "Harshita",
        age: "23",
        profession: "software developer",
    },
};

console.log(car.purchased.name + " has purchased " + car.brand);
console.log(car.brand + " has an rpm of " + car.torque);
console.log("type of object is : " + typeof car);
console.log(car);

```

## Form Validation

```
<!DOCTYPE html>
<html>

<head>
  <script>
    function validateForm(inputText) {
      let x = document.forms["myForm"]["fname"].value;
      if (x.length < 2) {
        alert("enter a valid name");
        return false;
      }

      let y = document.forms["myForm"]["email"].value;
      if (y=="") {
        alert(" enter a valid email");
        return false;
      }

      let z = document.forms["myForm"]["phone"].value;
      if (z.length < 10) {
        alert("enter a valid number");
        return false;
      }

      let p = document.forms["myForm"]["pwd"].value;
      if (p.length < 6) {
        alert("enter a valid password");
        return false;
      }
    }
  </script>
</head>

<body>
  <h2>JavaScript Validation</h2>

  <form name="myForm" action="/action_page.php" onsubmit="return
validateForm()" method="post">
    <label for="name"><b>fname</b></label>
```

```

        <input type="text" placeholder="Enter full name" name="fname"
id="fname" required><br>

        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email"
id="email" required><br>
        <label for="phone no"><b>phone no</b></label>
        <input type="tel" placeholder="enter contact number" name="phone
number" id="phone" required><br>

        <label for="password"><b>password</b></label>
        <input type="password" placeholder="Enter the password"
pwd="password" id="pwd" required><br>
        <input type="submit" value="Submit">

    </form>

</body>

</html>

```

## Factors

```

const prompt = require("prompt-sync") ();
const num = prompt("Enter a positive number: ");
for (var i = 1; i <= num; i++) {
    if (num % i == 0) {
        console.log(i);
    }
}

```

## State and Event in React

### Counter.js

```
import {useState} from 'react'

const Counter = () =>{
  const [counter, setCounter]=useState(0);

  const increment = () =>{
    setCounter(counter+1)
  }
  const decrement = () =>{
    setCounter(counter-1)
  }
  return(
    <div className="counter">
      <h1 className="text-warning">{counter}</h1>
      <button className="btn btn-danger me-5"
onClick={increment}>Increment</button>
      <button className="btn btn-danger"
onClick={decrement}>Decrement</button>
    </div>
  )
}

export default Counter;
```

### Body.js

```
import Counter from './Counter.js'

const Body = () =>{

  return(
    <div className="body" style={{height: "73vh"}}>
      <Counter />
    </div>
  )
}

export default Body
```

## Fibonacci Series

```
<!DOCTYPE html>
<html>
<head>
  <title>Fibonacci series</title>
</head>
<body>
  <script type="text/javascript">

    var a = 0;
    var b = 1;
    var c;
    var num= prompt("Enter the limit to generate fibonacci series");
    document.write(a+"<br />");
    document.write(b+"<br />");

    for(var i = 3; i<=num;i++){
      c = a + b;
      a = b;
      b = c;
      document.write(c+"<br />");
    }

  </script>
</body>
</html>

// program to display fibonacci sequence using recursion
function fibonacci(num) {
  if(num < 2) {
    return num;
  }
  else {
    return fibonacci(num-1) + fibonacci(num - 2);
  }
}

// take nth term input from the user
const nTerms = prompt('Enter the number of terms: ');

if(nTerms <=0) {
```

```
        console.log('Enter a positive integer.');
```

```
    }
    else {
        for(let i = 0; i < nTerms; i++) {
            console.log(fibonacci(i));
        }
    }
}
```

## Express App

### app.js

```
const express = require('express')

const app = express()

app.use(express.static('./public'))


app.get('/', (req, res) => {

    res.status(200).sendFile(__dirname + '/index.html');

})


app.get('/blog', (req, res) => {

    res.status(200).sendFile(__dirname + '/public/text.html')

})


app.get('/blog_2', (req, res) => {

    res.status(200).sendFile(__dirname + '/public/text2.html')

})
```

```
const PORT = process.env.PORT || 3000

app.listen(PORT, ()=>{

  console.log("Server is Running on Port", PORT)

})
```

### **In current Directory**

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Home</title>

</head>

<body>

  <h1>Welcome to Express Application</h1>

  <h4><a href="/blog">Blog Post</a></h4>

  <h4><a href="/blog_2">Blog Post - 2</a></h4>

</body>

</html>
```

### **Output:**

Home Page

Index.html on current directory



on '/' path

In public folder there are two files text.html and text2.html

Which are made public using app.use(express.static('./public')) in our app.js

When we click on Blog Post

On localhost:3000/blog

When we click on Blog Post -2

On localhost:3000/blog\_2