

SIMPLE NODEJS SERVER

SIMPLE ECHO FOR HTTP POST

```

x _ □ bhargav@bhargav-VivoBook-ASUSLaptop-X513EA-X513EA:~/webtech/node_server
at 11:26:30 AM ☺
> ls
client node_modules package.json package-lock.json server.js

x _ □ ~/webtech/node_server
at 11:26:30 AM ☺
> S

x _ □ ~/webtech/node_server/client
at 11:26:27 AM ☺
> ls
node_modules package.json package-lock.json public README.md src

x _ □ ~/webtech/node_server/client
at 11:26:32 AM ☺
> |
```

```

x _ □ npm start
at 11:26:30 AM ☺
> ls
client node_modules package.json package-lock.json server.js

x _ □ ~/webtech/node_server
at 11:26:30 AM ☺
> node server.js

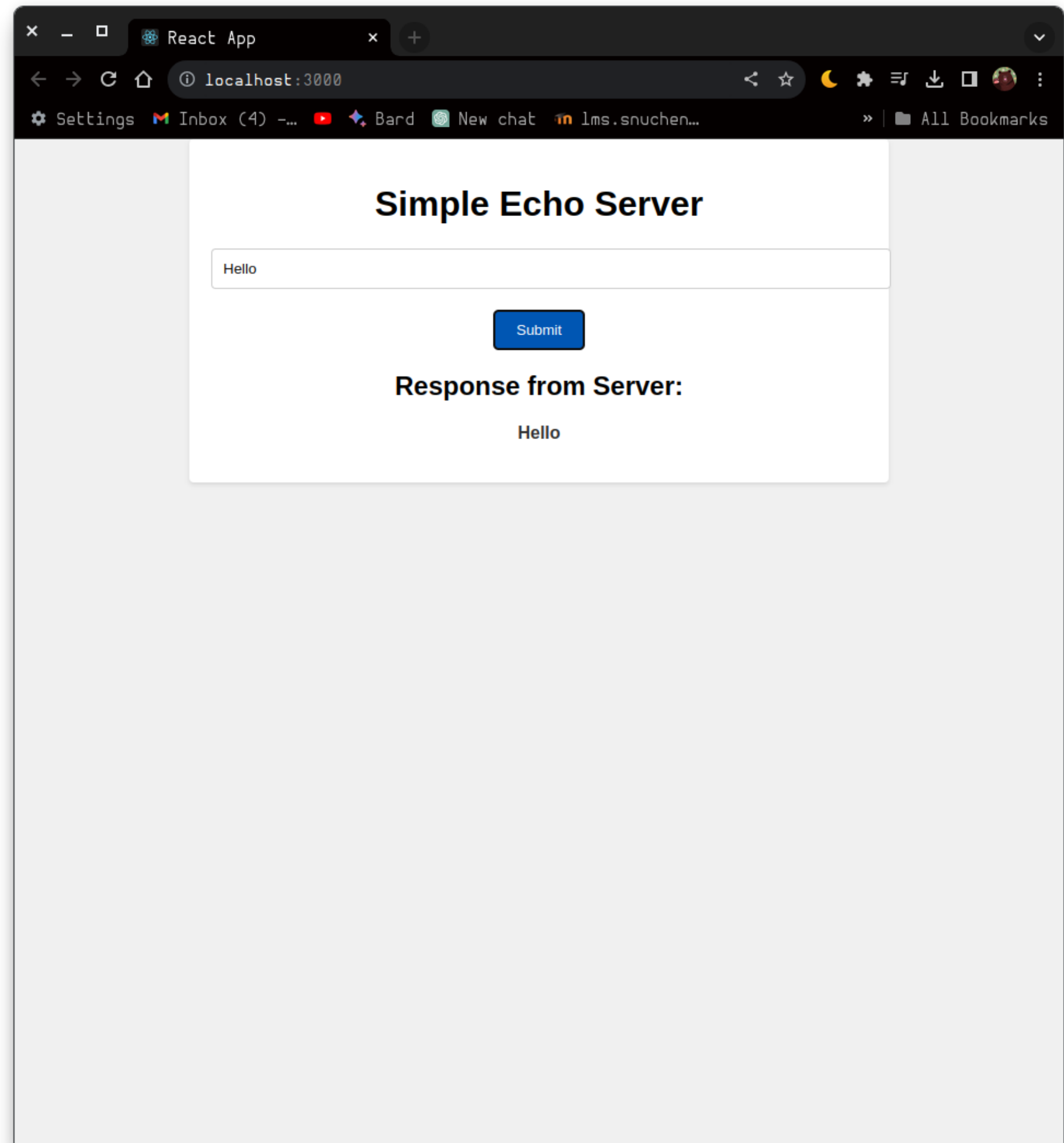
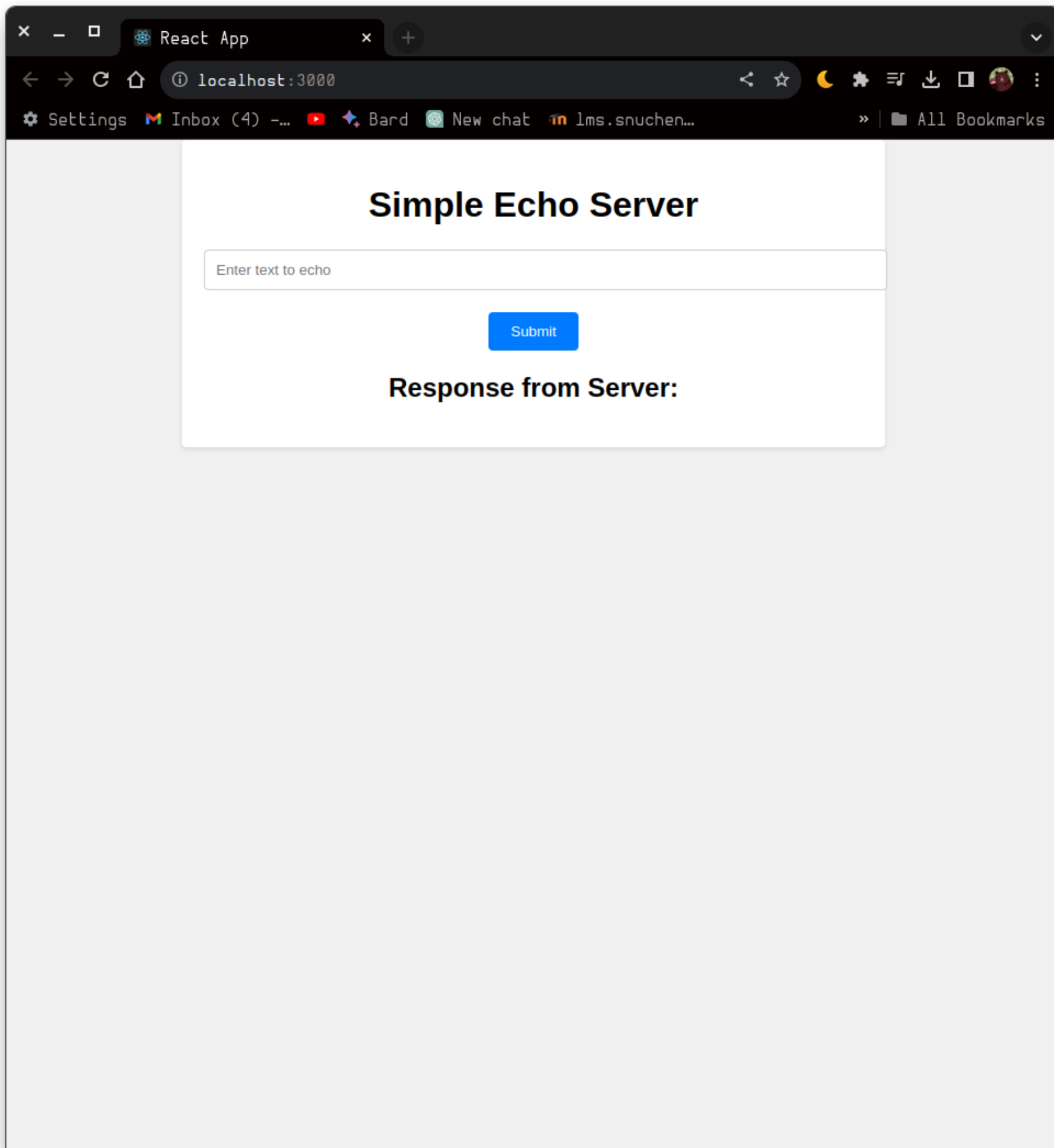
Server is running on http://localhost:3001

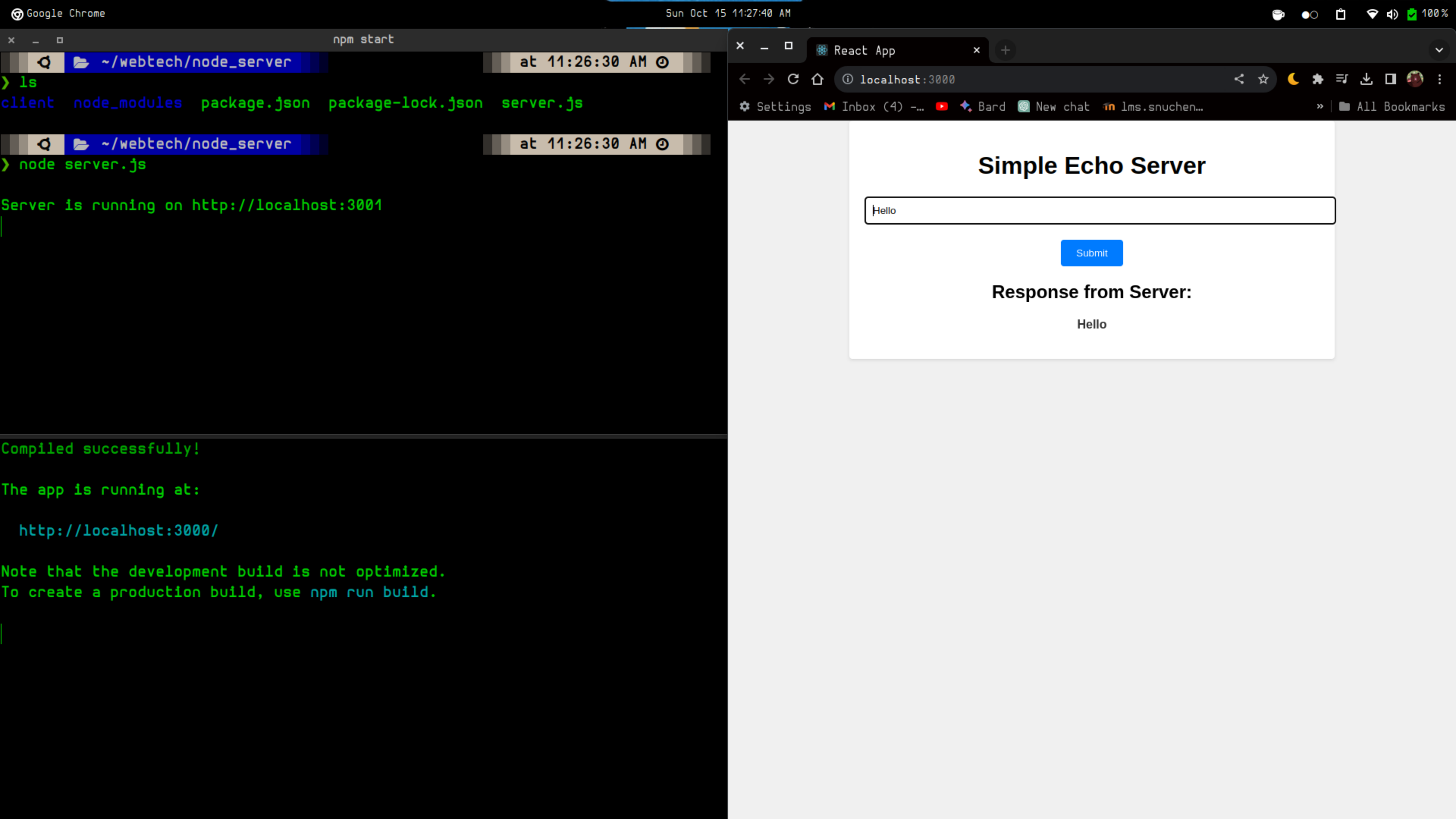
Compiled successfully!

The app is running at:

  http://localhost:3000/

Note that the development build is not optimized.
To create a production build, use npm run build.
```





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> node server.js

Server is running on http://localhost:3001

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http://localhost:3000/

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Simple Echo Server

Hello

Submit

Response from Server:

Hello

Terminal commands

server

```
npm init -y  
npm install express body-parser  
node server.js
```

start server

client

```
npx create-react-app client  
cd client  
npm start
```

start client



server.js

```
const express = require('express');
const bodyParser = require('body-parser');
const cors = require('cors'); // Add this line

const app = express();
const port = 3001;

app.use(bodyParser.text());
app.use(cors()); // Enable CORS for all routes

app.post('/echo', (req, res) => {
  res.send(req.body);
});

app.listen(port, () => {
  console.log(`Server is running on http://localhost:${port}`);
});
```

App.js(client)

```
import React, { useState } from 'react';
import './App.css';
function App() {
  const [inputText, setInputText] = useState("");
  const [responseText, setResponseText] = useState("");
  const handleSubmit = async () => {
    try {
      const response = await fetch('http://localhost:3001/echo', {
        method: 'POST',
        body: inputText,
        headers: {
          'Content-Type': 'text/plain',
        },
      });
      const responseData = await response.text();
      setResponseText(responseData);
    } catch (error) {
      console.error('Error:', error);
    }
  };
  return (
    <div className="container">
      <h1>Simple Echo Server</h1>
      <div className="input-container">
        <input
          type="text"
          placeholder="Enter text to echo"
          value={inputText}
          onChange={(e) => setInputText(e.target.value)}
        />
      </div>
      <button onClick={handleSubmit}>Submit</button>
      <div className="response-container">
        <h2>Response from Server:</h2>
        <p className="response-text">{responseText}</p>
      </div>
    </div>
  );
}
```

export default App;

App.css(client)

```
/* App.css */
body {
  font-family: Arial, sans-serif;
  background-color: #f0f0f0;
  margin: 0;
  padding: 0;
  text-align: center;
}

.container {
  margin: 0 auto;
  padding: 20px;
  width: 80%;
  max-width: 600px;
  background-color: #fff;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  border-radius: 4px;
}

.input-container {
  margin-bottom: 20px;
}
```

```
input[type="text"] {
  width: 100%;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button {
  background-color: #007BFF;
  color: #fff;
  padding: 10px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}

button:hover {
  background-color: #0056b3;
}

.response-container {
  margin-top: 20px;
}
```