



EXPLORER

...

JS page.js X

SERVER-ACTIONS

- > .next
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- > node_modules
- > public
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js



app > JS page.js > Home

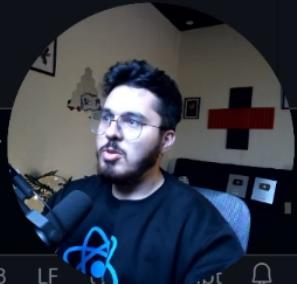
```
1 import Image from "next/image";
2
3 export default function Home() {
4   return (
5     <div className="w-2/3 mx-auto my-12">
6       <form action="">
7         <div>
8           <label htmlFor="name">Name</label>
9           <input name="name" id="name" className="text-black mx-4" type="text" />
10        </div>
11        <div>
12          <label htmlFor="add">Address</label>
13          <input name="add" id="add" className="text-black mx-4" type="text" />
14        </div>
15        <div>
16
17          <button className="border border-white px-3">Submit</button>
18        </div>
19      </form>
20    </div>
21  );
22}
```

J0lms

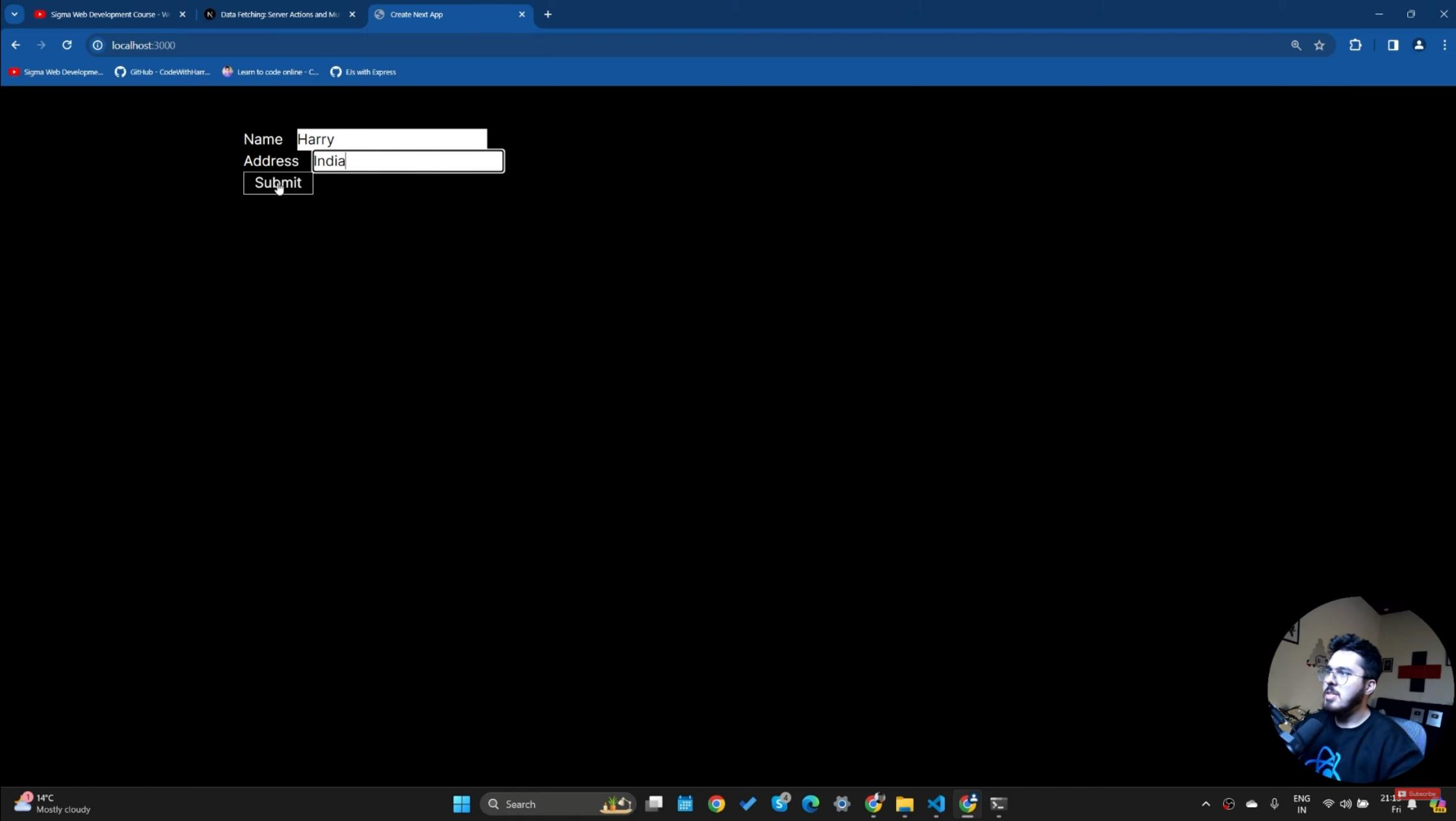
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

- Compiling / ...
- Compiled / in 3s (510 modules)

node +



Ln 9, Col 61 Spaces: 2 UTF-8 LF pt ENG IN Fri 21:11 14°C Mostly cloudy



Name
Address

Page reloads here



File Edit Selection View Go ... ← → 🔍 server-actions

EXPLORER ...

SERVER-ACTIONS

- > .next
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- > node_modules
- > public
 - .eslintrc.json
 - .gitignore
 - harry.txt
 - JS jsonconfig.json
 - N next.config.mjs
 - npm package-lock.json
 - npm package.json
 - postcss.config.js
 - README.md
 - tailwind.config.js
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

node JS page.js X

app > JS page.js > Home > submitAction

```
1 import Image from "next/image";
2 import fs from "fs/promises"
3
4 export default function Home() {
5
6
7     const submitAction = async (e) => {
8         console.log(e.get("name"), e.get("add"))
9         let a = await fs.writeFile("harry.txt", "Hey I am good")
10        console.log(a)
11    }
12
13
14    return (
15        <div className="w-2/3 mx-auto my-12">
16            <form action={submitAction}>
17                <div>
18                    <label htmlFor="name">Name</label>
19                    <input name="name" id="name" className="text-black mx-4" type="text" />
20                </div>
21                <div>
22                    <label htmlFor="add">Address</label>
23                    <input name="add" id="add" className="text-black mx-4" type="text" />
24                </div>
25                <div>
```

Server Actions in forms



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Search

211 ENG IN Fri

Sigma Web Development Course - W Data Fetching: Server Actions and Mutation localhost:3000

localhost:3000

Sigma Web Development Course GitHub - CodeWithHarr... Learn to code online - C... EJS with Express

1 of 1 unhandled error

Unhandled Runtime Error

Error: Functions cannot be passed directly to Client Components unless you explicitly expose it by marking it with "use server".

```
<form action={function} children=...>
    ^^^^^^
```

Call Stack

```
<unknown>
file:///C:/Users/iitia/Downloads/Sigma%20Web%20Development%20Course/Sigma-Web-Dev-Course/Video%20125/server-actions/node_modules/next/dist/compiled/next-server/app-page.runtime.dev.js (35:280997)

Object.toJSON
file:///C:/Users/iitia/Downloads/Sigma%20Web%20Development%20Course/Sigma-Web-Dev-Course/Video%20125/server-actions/node_modules/next/dist/compiled/next-server/app-page.runtime.dev.js (35:281723)

stringify
<anonymous>

<unknown>
file:///C:/Users/iitia/Downloads/Sigma%20Web%20Development%20Course/Sigma-Web-Dev-Course/Video%20125/server-actions/node_modules/next/dist/compiled/next-server/app-page.runtime.dev.js (35:268079)

ez
file:///C:/Users/iitia/Downloads/Sigma%20Web%20Development%20Course/Sigma-Web-Dev-Course/Video%20125/server-actions/node_modules/next/dist/compiled/next-server/app-
```

Elements Console Sources Network Performance Security >

Preserve log Disable cache No throttling ⚡ ⏴ ⏵ ⏷ ⏸ ⏹ ⏺ ⏻ ⏱ ⏳

Filter Invert Hide data URLs Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other Blocked response cookies

Blocked requests 3rd-party requests

100 ms 200 ms 300 ms 400 ms 500 ms 600 ms

| Name | Status | Type | Initiator | Size | Time | Waterfall |
|--------------------------------------|--------|------------|--------------------|---------|---------|-----------|
| localhost | 500 | document | | 363 B | 134 ms | |
| webpack.js | 200 | script | :3000/:1 | 10.8 kB | 5 ms | |
| main-app.js | 200 | script | :3000/:1 | 1.9 MB | 179 ms | |
| app-pages-internals.js | 200 | script | :3000/:1 | 42.3 kB | 6 ms | |
| webpack-hmr | 101 | websocket | main-app.js:347 | 0 B | Pending | |
| layout.css?v=1708703190218 | 200 | stylesheet | react-dom.devel... | 4.6 kB | 3 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 2 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 3 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 3 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 3 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 3 ms | |
| __nextjs_original-stack-frame?isS... | 400 | fetch | stack-frame.js:38 | 161 B | 3 ms | |

12 requests | 2.0 MB transferred | 8.5 MB resources | Finish: 598 ms



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Windows Chrome S Microsoft Edge Settings ⏴ ⏵ ⏷ ⏸ ⏹ ⏻ ⏱ ⏳



EXPLORER

...

SERVER-ACTIONS

- > .next
- > app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- > node_modules
- > public
 - .eslintrc.json
 - .gitignore
 - harry.txt
 - jsconfig.json
 - next.config.mjs
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - tailwind.config.js

> OUTLINE

> TIMELINE

> TASK EXPLORER

node JS page.js X

app > JS page.js > Home > submitAction

```
1 import Image from "next/image";
2 import fs from "fs/promises"
3
4 export default function Home() {
5
6
7     const submitAction = async (e) => {
8         "use server"
9         console.log(e.get("name"), e.get("add"))
10        let a = await fs.writeFile("harry.txt", `Name is ${e.get("name")}, Address is ${e.get("add")}`)
11        console.log(a)
12
13    }
14
15    return (
16        <div className="w-2/3 mx-auto my-12">
17            <form action={submitAction}>
18                <div>
19                    <label htmlFor="name">Name</label>
20                    <input name="name" id="name" className="text-black mx-4" type="text" />
21                </div>
22                <div>
23                    <label htmlFor="add">Address</label>
24                    <input name="add" id="add" className="text-black mx-4" type="text" />
25                </div>

```



Server



Sigma Web Development Course - W Data Fetching: Server Actions and Mutation Create Next App

localhost:3000

Sigma Web Development Course GitHub - CodeWithHarry... Learn to code online - C... EJS with Express

Name Harry
Address India
Submit

Network

Filter Preset log Disable cache No throttling Invert Hide data URLs Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other Blocked response cookies

Blocked requests 3rd-party requests

500 ms 1000 ms 1500 ms 2000 ms 2500 ms 3000 ms 3500 ms 4000 ms 4500 ms 5000 ms

| Name | Headers | Payload | Preview | Response | Initiator | Timing |
|----------------------|-----------------------|---|---------|----------|-----------|--------|
| localhost | ▼ General | | | | | |
| layout.css?v=1708... | Request URL: | http://localhost:3000/ | | | | |
| webpack.js?v=170... | Request Method: | POST | | | | |
| main-app.js?v=17... | Status Code: | 200 OK | | | | |
| app-pages-intern... | Remote Address: | [::1]:3000 | | | | |
| c9a5bc6a7c948fb... | Referrer Policy: | strict-origin-when-cross-origin | | | | |
| webpack-hmr | ▼ Response Headers | | | | | |
| localhost | Cache-Control: | no-store, must-revalidate | | | | |
| | Connection: | keep-alive | | | | |
| | Content-Encoding: | gzip | | | | |
| | Content-Type: | text/x-component | | | | |
| | Date: | Fri, 23 Feb 2024 15:45:38 GMT | | | | |
| | Keep-Alive: | timeout=5 | | | | |
| | Transfer-Encoding: | chunked | | | | |
| | Vary: | RSC, Next-Router-State-Tree, Next-Rout... | | | | |
| | X-Action-Revalidated: | Accept-Encoding | | | | |
| | X-Powered-By: | [],0,0] | | | | |
| | ▼ Request Headers | | | | | |
| | Raw | | | | | |

8 requests | 2.0 MB transferred

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Sigma Web Development Course - W | Data Fetching: Server Actions and Mutation | Create Next App

localhost:3000

Sigma Web Development Course | GitHub - CodeWithHarry... | Learn to code online - C... | EJS with Express

Name Harry
Address Address 45
Submit

Network

Preserve log | Disable cache | No throttling | Invert | Hide data URLs | Hide extension URLs

All | Fetch/XHR | Doc | CSS | JS | Font | Img | Media | Manifest | WS | Wasm | Other | Blocked response cookies

Blocked requests | 3rd-party requests

| Name | Status | Type | Initiator | Size | Time | Waterfall |
|---------------------------------|--------|------------|---------------------------------|---------|---------|-----------|
| localhost | 200 | document | | 3.1 kB | 204 ms | |
| layout.css?v=1708703242298 | 200 | stylesheet | (index):0 | 4.6 kB | 16 ms | |
| webpack.js?v=1708703242298 | 200 | script | (index):0 | 10.9 kB | 16 ms | |
| main-app.js?v=1708703242298 | 200 | script | (index):0 | 1.9 MB | 182 ms | |
| app-pages-internals.js | 200 | script | (index):0 | 42.3 kB | 5 ms | |
| c9a5bc6a7c948fb0-s.p.woff2 | 200 | font | :3000/_next/static/... (memory) | | 0 ms | |
| webpack-hmr | 101 | websock... | use-websocket.j... | 0 B | Pending | |
| b579d9e5322aba23.webpack.hot... | 200 | fetch | webpack.js?v=1... | 373 B | 4 ms | |
| webpack.b579d9e5322aba23.hot... | 200 | script | webpack.js?v=1... | 1.2 kB | 3 ms | |
| ?_rsc=1xuj0 | 200 | fetch | fetch-server-res... | 1.5 kB | 64 ms | |
| layout.css?v=1708703248000 | 200 | stylesheet | react-dom.devel... | 4.6 kB | 2 ms | |
| ?_rsc=1xuj0 | 200 | fetch | fetch-server-res... | 336 B | 56 ms | |
| a880794877e552e1.webpack.hot... | 200 | fetch | webpack.js?v=1... | 373 B | 3 ms | |
| webpack.a880794877e552e1.hot... | 200 | script | webpack.js?v=1... | 1.2 kB | | |
| layout.css?v=1708703249708 | 200 | stylesheet | react-dom.devel... | 4.6 kB | | |
| localhost | 200 | fetch | server-action-re... | 426 B | | |

16 requests | 2.0 MB transferred | 8.6 MB resources | Finish: 13.07 s | DOMContentLoaded: 205 ms

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EXPLORER ...

SERVER-ACTIONS

- > .next
- > app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- > node_modules
- > public
 - .eslintrc.json
 - .gitignore
 - harry.txt
 - jsconfig.json
 - next.config.mjs
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node JS page.js harry.txt

1 Name is Harry and Address is Address 45



Re-organising

```
1 "use server"
2 import fs from "fs/promises"
3 export const submitAction = async (e) => {
4     console.log(e.get("name"), e.get("add"))
5     let a = await fs.writeFile("harry.txt", `Name is ${e.get(
6         "name")} and Address is ${e.get("add")}`)
7 }
```



EXPLORER ...

✓ SERVER-ACTIONS

- > .next
- ✓ actions
 - JS form.js
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- ✓ node_modules
 - > .bin
 - > @aashutoshrathi
 - > @alloc
 - > @babel
 - > @eslint
 - > @eslint-community
 - > @humanwhocodes
 - > @isaacs
 - > @jridgewell
 - > @next
 - > @nodelib
 - > @pkgjs

> OUTLINE

> TIMELINE

> TASK EXPLORER



EXPLORER

...

SERVER-ACTIONS

- > .next
- ✓ actions
 - JS form.js
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- ✓ node_modules
 - > .bin
 - > @aashutoshrathi
 - > @alloc
 - > @babel
 - > @eslint
 - > @eslint-community
 - > @humanwhocodes
 - > @isaacs
 - > @jridgewell
 - > @next
 - > @nodelib
 - > @pkgjs

> OUTLINE

> TIMELINE

> TASK EXPLORER

node

JS page.js

JS form.js

harry.txt

app > JS page.js > Home

```
1 import { submitAction } from "@/actions/form"; ←  
2  
3 export default function Home() {  
4  
5   return (  
6     <div className="w-2/3 mx-auto my-12">  
7       <form action={submitAction}>  
8         <div>  
9           <label htmlFor="name">Name</label>  
10          <input name="name" id="name" className="text-black mx-4" type="text" />  
11        </div>  
12        <div>  
13          <label htmlFor="add">Address</label>  
14          <input name="add" id="add" className="text-black mx-4" type="text" />  
15        </div>  
16        <div>  
17          <button className="border border-white px-3">Submit</button>  
18        </div>  
19      </form>  
20    </div>  
21  );  
22}  
23 }  
24 }
```



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Sigma Web Development Course - W Data Fetching: Server Actions and Mutation Create Next App

localhost:3000

Name 12
Address 12
Submit

Page won't reload

Network tab in DevTools showing a POST request to http://localhost:3000/ with status 200 OK.

Request Headers:

- Cache-Control: no-store, must-revalidate
- Connection: keep-alive
- Content-Encoding: gzip
- Content-Type: text/x-component
- Date: Fri, 23 Feb 2024 15:49:14 GMT
- Keep-Alive: timeout=5
- Transfer-Encoding: chunked
- Vary: RSC, Next-Router-State-Tree, Next-Route
- X-Action-Revalidated: [0,0]
- X-Powered-By: Next.js

Response Headers:

- Accept-Encoding

8 requests | 2.0 MB transferred

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Search

ENG IN

21:11 Fri

Subscribe



EXPLORER ...

SERVER-ACTIONS

- > .next
- ✓ actions **JS form.js**
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- ✓ node_modules
 - > .bin
 - > @aashutoshrathi
 - > @alloc
 - > @babel
 - > @eslint
 - > @eslint-community
 - > @humanwhocodes
 - > @isaacs
 - > @jridgewell
 - > @next
 - > @nodelib
 - > @pkgjs

> OUTLINE

> TIMELINE

> TASK EXPLORER

node x JS page.js JS form.js hARRY.txt

```
3 | export default function Home() {  
4 |  
  
https://nextjs.org/docs/messages/module-not-found  
⚠ Fast Refresh had to perform a full reload due to a runtime error.  
⚠ Fast Refresh had to perform a full reload due to a runtime error.  
✖ ./app/page.js:1:0  
Module not found: Can't resolve '@'  
> 1 | import submitAction from "@"  
2 |  
3 | export default function Home() {  
4 |  
  
https://nextjs.org/docs/messages/module-not-found  
○ Compiling /_error ...  
✖ ./app/page.js:1:0  
Module not found: Can't resolve '@actions/form'  
> 1 | import submitAction from "@actions/form"  
2 |  
3 | export default function Home() {  
4 |  
  
https://nextjs.org/docs/messages/module-not-found  
⚠ Fast Refresh had to perform a full reload. Read more: https://nextjs.org/docs/messages/fast-refresh-reload  
✓ Compiled /not-found in 215ms (639 modules)  
⚠ Fast Refresh had to perform a full reload. Read more: https://nextjs.org/docs/messages/fast-refresh-reload  
✓ Compiled in 135ms (639 modules)  
✓ Compiled in 123ms (639 modules)
```

12 12 
undefined



Sigma Web Development Course - W Data Fetching: Server Actions and Mutation Create Next App

localhost:3000

Sigma Web Development GitHub - CodeWithHarr... Learn to code online - C... EJS with Express

Name 12 Address 12 Submit

Values don't reset when submitted

Network

Filter Preset log Disable cache No throttling Invert Hide data URLs Hide extension URLs All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other Blocked response cookies Blocked requests 3rd-party requests

5000 ms 10000 ms 15000 ms 20000 ms 25000 ms 30000 ms 35000 ms 40000 ms 45000 ms

| Name | Headers | Payload | Preview | Response | Initiator | Timing |
|----------------------|-----------------------|---|---------|----------|-----------|--------|
| localhost | General | | | | | |
| layout.css?v=1708... | Request URL: | http://localhost:3000/ | | | | |
| webpack.js?v=170... | Request Method: | POST | | | | |
| main-app.js?v=170... | Status Code: | 200 OK | | | | |
| app-pages-intern... | Remote Address: | [::1]:3000 | | | | |
| c9a5bc6a7c948fb... | Referrer Policy: | strict-origin-when-cross-origin | | | | |
| webpack-hmr | Response Headers | Raw | | | | |
| localhost | Cache-Control: | no-store, must-revalidate | | | | |
| ?_rsc=1xuj0 | Connection: | keep-alive | | | | |
| layout.css?v=1708... | Content-Encoding: | gzip | | | | |
| localhost | Content-Type: | text/x-component | | | | |
| | Date: | Fri, 23 Feb 2024 15:49:14 GMT | | | | |
| | Keep-Alive: | timeout=5 | | | | |
| | Transfer-Encoding: | chunked | | | | |
| | Vary: | RSC, Next-Router-State-Tree, Next-Rout... | | | | |
| | X-Action-Revalidated: | Accept-Encoding | | | | |
| | X-Powered-By: | [],0,0] Next.js | | | | |
| | Request Headers | Raw | | | | |

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Search

ENG IN

21:11 Fri

Subscribe

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Search

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Subscribe



EXPLORER

...

SERVER-ACTIONS

- > .next
- ✓ actions
 - JS form.js
- ✓ app
 - favicon.ico
 - globals.css
 - JS layout.js
 - JS page.js
- ✓ node_modules
 - > .bin
 - > @aashutoshrathi
 - > @alloc
 - > @babel
 - > @eslint
 - > @eslint-community
 - > @humanwhocodes
 - > @isaacs
 - > @jridgewell
 - > @next
 - > @nodelib
 - > @pkgjs

> OUTLINE

> TIMELINE

> TASK EXPLORER

node

JS page.js

JS form.js

harry.txt

app > JS page.js > Home

```
1 "use client"
2 import { submitAction } from "@/actions/form";
3 import { useRef } from "react";
4
5 export default function Home() {
6   let ref = useRef()
7   return (
8     <div className="w-2/3 mx-auto my-12">
9       <form ref={ref} action={({e})=> [submitAction(e); ref.current.reset()]}>
10        <div>
11          <label htmlFor="name">Name</label>
12          <input name="name" id="name" className="text-black mx-4" type="text" />
13        </div>
14        <div>
15          <label htmlFor="add">Address</label>
16          <input name="add" id="add" className="text-black mx-4" type="text" />
17        </div>
18        <div>
19          <button className="border border-white px-3">Submit</button>
20        </div>
21      </form>
22    </div>
23  );
24 }
25 }
```



Sigma Web Development Course - W Data Fetching: Server Actions and Mutation Create Next App

localhost:3000

Sigma Web Development GitHub - CodeWithHarr... Learn to code online - C... EJS with Express

Name
Address
Submit

Reset ✓

Elements Console Sources Network Performance Security > 1 | ⚙️ X

Preserve log Disable cache No throttling ⚡ ⌛ ⌂ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋

Filter Invert Hide data URLs Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other Blocked response cookies Blocked requests 3rd-party requests

1000 ms 2000 ms 3000 ms 4000 ms 5000 ms 6000 ms 7000 ms 8000 ms 9000 ms

| Name | Status | Type | Initiator | Size | Time | Waterfall |
|-----------------------------|--------|------------|-------------------------------|---------|---------|-----------|
| localhost | 200 | document | | 3.3 kB | 254 ms | |
| layout.css?v=1708703468264 | 200 | stylesheet | (index):0 | 4.6 kB | 34 ms | |
| webpack.js?v=1708703468264 | 200 | script | (index):0 | 10.9 kB | 34 ms | |
| main-app.js?v=1708703468264 | 200 | script | (index):0 | 1.9 MB | 214 ms | |
| app-pages-internals.js | 200 | script | (index):0 | 42.3 kB | 23 ms | |
| page.js | 200 | script | (index):0 | 55.7 kB | 23 ms | |
| c9a5bc6a7c948fb0-s.p.woff2 | 200 | font | :3000/ next/stat... (memor... | 0 B | 0 ms | |
| webpack-hmr | 101 | websock... | use-websocket.j... | 0 B | Pending | |
| localhost | 200 | fetch | page.js:9 | 426 B | 53 ms | |

9 requests | 2.1 MB transferred | 8.8 MB resources | Finish: 9.03 s | DOMContentLoaded: 254 ms

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Search ⌂ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋