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multiple middleware in nextjs 13 app directory not working

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I'm using Next.js 13 and I have a middleware function set up for Multilanguage. I want to add another middleware function, but it's not working for me. I guess I made a mistake in writing the middleware, but I'm not sure where. I don't get any error, it just doesn't work.

Here's my code:

```
import { NextResponse, NextRequest } from 'next/server'

import acceptLanguage from 'accept-language'
import { fallbackLng, languages } from './app/i18n/settings'

acceptLanguage.languages(languages)

const cookieName = 'i18next'

export function middleware(req: any) {
let lng
if (req.cookies.has(cookieName)) lng = acceptLanguage.get(req.cookies.get(cookieName).value)

   // automatic detect language with browser
   // if (!lng) lng = acceptLanguage.get(req.headers.get('Accept-Language'))

   if (!lng) lng = fallbackLng

   // Redirect if lng in path is not supported
   if (
```

```
        !languages.some(loc => req.nextUrl.pathname.startsWith(`/${loc}`)) &&
        !req.nextUrl.pathname.startsWith('/_next')
    ) {
        return NextResponse.redirect(new URL(`/${lng}${req.nextUrl.pathname}`, req.url))
    }

    if (req.headers.has('referer')) {
        const refererUrl = new URL(req.headers.get('referer'))
        const lngInReferer = languages.find((l) => refererUrl.pathname.startsWith(`/${l}`))
        const response = NextResponse.next()
        if (lngInReferer) response.cookies.set(cookieName, lngInReferer)
        return response
    }

    return NextResponse.next()

}

export function middleware2(request: NextRequest) {
if (request.nextUrl.pathname.startsWith('/about')){
return NextResponse.redirect(new URL('/home', request.url))
}

}

export const config = {
api: {
bodyParser: false,
},
matcher: ['/((?!api|_next/static|_next/image|assets|favicon.ico|sw.js).*)']

}
```

- node.js
- reactjs
- next.js
- middleware
- next.js13

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asked Jul 22 at 11:50

Alireza Dorrani Alireza Dorrani

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3 Answers

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3

Next.js does not support multiple middleware at the time I've written this answer but you can handle it yourself with following steps:

Create a middleware folder in the root directory (or src if using that in Next.js

create a config.ts file in this folder with below code

```
import Authentication from "@/middleware/authentication";
import Localization from "@/middleware/localization";
// import Logging from "@/middleware/logging";

export const middleware = [
   Authentication,
   Localization,
   // Logging
   // and ...
]
```

create every middleware as you needed. as you can see I added Authentication and Localization middleware in its directory, each middleware file should have the following structure:

```
import {NextRequest, NextResponse} from "next/server";

export default async function Authentication(req: NextRequest): Promise<NextResponse> {
 // you codes ...
}
```

4. Finally, add a main middleware.ts file in the root of your project (as explained in the docs) with the following content:

```
import type {NextRequest} from 'next/server'
import {middleware as activatedMiddleware} from '@/middleware/config'
import {NextResponse} from "next/server";

export async function middleware(req: NextRequest) {
   // Load middleware functions
   const middlewareFunctions = activatedMiddleware.map(fn => fn(req));

   // Option 1: Run middleware synchronously
   // This allows you to handle each result before moving to the next
       /*
       for(const fn of middlewareFunctions){
         const result = await fn;

         if(!result.ok){
           return result;
         }
       }

       return NextResponse.next();
       */

   // Option 2: Run middleware asynchronously
   // Using Promise.allSettled allows concurrent execution
   const results = await Promise.allSettled(middlewareFunctions);

   // Check each result
   for (const result of results) {
       // If rejected or not OK, return first response
       if (result.status === "fulfilled" && !result.value?.ok) {
           return result.value;
       } else if (result.status === "rejected") {
           throw result.reason
       }
```

```
   }

   return NextResponse.next();
}

export const config = {
   matcher: ['/((?!api|_next/static|_next/image|favicon.ico).*)',],
}
```

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answered Sep 3 at 14:55

Milad Parirokh Milad Parirokh

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0

You can only export one middleware function.

From Next.js 13 document

```
import { NextResponse } from 'next/server'
import type { NextRequest } from 'next/server'

export function middleware(request: NextRequest) {
 if (request.nextUrl.pathname.startsWith('/about')) {
   return NextResponse.rewrite(new URL('/about-2', request.url))
 }

 if (request.nextUrl.pathname.startsWith('/dashboard')) {
   return NextResponse.rewrite(new URL('/dashboard/user', request.url))
 }
}
```

In your case, you should move the condition in `middleware2` to `middleware`

```
export function middleware(req: any) {
  // From middleware2

   if (request.nextUrl.pathname.startsWith('/about')){
       return NextResponse.redirect(new URL('/home', request.url))
   }

   let lng
   if (req.cookies.has(cookieName)) lng = acceptLanguage.get(req.cookies.get(cookieName).value)

   // automatic detect language with browser
   // if (!lng) lng = acceptLanguage.get(req.headers.get('Accept-Language'))

   if (!lng) lng = fallbackLng

   // Redirect if lng in path is not supported
   if (
       !languages.some(loc => req.nextUrl.pathname.startsWith(`/${loc}`)) &&
       !req.nextUrl.pathname.startsWith('/_next')
```

```
  ) {
      return NextResponse.redirect(new URL(`/${lng}${req.nextUrl.pathname}`, req.url))
  }

  if (req.headers.has('referer')) {
      const refererUrl = new URL(req.headers.get('referer'))
      const lngInReferer = languages.find((l) => refererUrl.pathname.startsWith(`/${l}`))
      const response = NextResponse.next()
      if (lngInReferer) response.cookies.set(cookieName, lngInReferer)
      return response
  }

  return NextResponse.next()

}
```

In addition, the config does not have the `api` property. The `matcher` property gives you the option to run the middleware on specific routes. The config you have below will prevent your middleware from running if the request path is any of `/api`, `/_next/static`, `/_next/image`, `/assets`, `/favicon.ico` and `/sw`

```
export const config = {
  matcher: ['/((?!api|_next/static|_next/image|assets|favicon.ico|sw.js).*)']
}
```

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edited Jul 22 at 13:38

answered Jul 22 at 12:01

Abk Abk

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1

> Can you tell me how I should change this part of the code: ``` export const config = { api: { bodyParser: false, }, matcher: ['/((?!api|_next/static|_next/image|assets|favicon.ico|sw.js).*)'] } ```
>
> – Alireza Dorrani
>
> Jul 22 at 12:20

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-2

It seems like you are trying to use two middleware functions (middleware and middleware2) in the same file. However, Next.js only allows one exported middleware function per file.

If you want to use multiple middleware functions, you should create separate files for each middleware function. For example, you could have a middleware1.js file for your first middleware function and a middleware2.js file for your second middleware function.

Here's how you could separate your middleware functions into two files:

middleware1.js

```
import { NextResponse, NextRequest } from 'next/server'
import acceptLanguage from 'accept-language'
import { fallbackLng, languages } from './app/i18n/settings'

acceptLanguage.languages(languages)

const cookieName = 'i18next'

export function middleware(req: any) {
 let lng
 if (req.cookies.has(cookieName)) lng = acceptLanguage.get(req.cookies.get(cookieName).value)

 if (!lng) lng = fallbackLng

 if (
   !languages.some(loc => req.nextUrl.pathname.startsWith(`/${loc}`)) &&
   !req.nextUrl.pathname.startsWith('/_next')
 ) {
   return NextResponse.redirect(new URL(`/${lng}${req.nextUrl.pathname}`, req.url))
 }

 if (req.headers.has('referer')) {
   const refererUrl = new URL(req.headers.get('referer'))
   const lngInReferer = languages.find((l) => refererUrl.pathname.startsWith(`/${l}`))
   const response = NextResponse.next()
   if (lngInReferer) response.cookies.set(cookieName, lngInReferer)
   return response
 }

 return NextResponse.next()
}

export const config = {
 api: {
   bodyParser: false,
 },
 matcher: ['/((?!api|_next/static|_next/image|assets|favicon.ico|sw.js).*)']
}
```

middleware2.js

```
import { NextResponse, NextRequest } from 'next/server'

export function middleware(request: NextRequest) {
 if (request.nextUrl.pathname.startsWith('/about')){
   return NextResponse.redirect(new URL('/home', request.url))
 }
}
```

Remember to import and use these middleware functions in the appropriate places in your application.

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answered Jul 22 at 18:17

CyberJ CyberJ

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Do I need to import these two middleware in one file as the main file for middleware?

– Alireza Dorrani

Jul 22 at 19:19

You can import multiple middlewares in one file. Just import them everywhere where they are needed. Try and let me know.

– CyberJ

Jul 23 at 0:03

Welcome back to Stack Overflow, CyberJ. It looks like it's been a while since you've posted and may not be aware of the current policies since at least *eight* of of your answers yesterday appear likely to have been entirely or partially written by AI (e.g., ChatGPT). Please be aware that posting AI-generated content is not allowed here . If you used an AI tool to assist with any answer, I would encourage you to delete it. We do hope you'll stick around and continue to be a valuable part of our community by posting *your own* quality content. Thanks!

– NotTheDr01ds

Jul 23 at 16:14

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– NotTheDr01ds

Jul 23 at 16:14

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