# Lenis Horizontal Scroll Setup (VS Code Agent + SSR)

#### **Goal Recap**

You're using VS Code Web/Agent, so all client-side animation libraries must be safely initialized in a way that won't break SSR.

This guide will show you how to implement a smooth horizontal scrolling logo section using Lenis and GSAP inside a Next.js app.

#### Step 1: Install Packages

In your VS Code terminal (agent or local), run:

npm install gsap @studio-freight/lenis

### **Step 2: Create LenisProvider Component**

Create a file at components/LenisProvider.tsx with the following content:

```
'use client'
import { useEffect } from 'react'
import Lenis from '@studio-freight/lenis'

export default function LenisProvider({ children }) {
    useEffect(() => {
        const lenis = new Lenis({ smooth: true, direction: 'vertical' })
        const raf = (time) => {
        lenis.raf(time)
        requestAnimationFrame(raf)
      }
    requestAnimationFrame(raf)
    }, [])

return <>{children}
```

#### Step 3: Use LenisProvider in Layout

```
Wrap your app layout in the LenisProvider:

import LenisProvider from '@/components/LenisProvider'

export default function RootLayout({ children }) {

return (

<html>
```

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```
<br/>
```

# **Step 4: HorizontalScrollLogos Component**

Create a component at components/HorizontalScrollLogos.tsx:

```
'use client'
import { useRef, useEffect } from 'react'
import gsap from 'gsap'
import ScrollTrigger from 'gsap/ScrollTrigger'
gsap.registerPlugin(ScrollTrigger)
export default function HorizontalScrollLogos() {
 const containerRef = useRef(null)
 const trackRef = useRef(null)
 useEffect(() => {
  const container = containerRef.current
  const track = trackRef.current
  if (!container || !track) return
  const ctx = gsap.context(() => {
    const totalScroll = track.scrollWidth - container.offsetWidth
    gsap.to(track, {
     x: -totalScroll,
     ease: 'none',
     scrollTrigger: {
      trigger: container,
      start: 'top top',
      end: () => `+=${track.scrollWidth}`,
      scrub: true,
      pin: true,
      anticipatePin: 1,
     },
   })
  }, container)
  return () => ctx.revert()
 }, [])
 const logos = [
  '/logos/angular.svg',
  '/logos/react.svg',
```

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```
'/logos/nextjs.svg',
  '/logos/figma.svg',
  '/logos/openai.svg',
  '/logos/ionic.svg',
  '/logos/adobe.svg',
 ]
 return (
  <section ref={containerRef} className="relative h-screen overflow-hidden bg-white">
    <div ref={trackRef} className="flex items-center gap-16 px-8 py-20 whitespace-nowrap">
     \{logos.map((src, i) => (
      <img key={i} src={src} alt="" className="h-20 w-auto" />
     ))}
    </div>
  </section>
 )
}
```

#### **SSR-Safe Practices**

- Use 'use client' in all interactive components
- Avoid using window or document outside of useEffect
- Wrap DOM-dependent logic inside useEffect
- Register GSAP plugins inside useEffect
- Always check for element refs before using them