

```

import { OpenAIStream, StreamingTextResponse } from "ai" import { Configuration,
OpenAIApi } from "openai-edge"

const config = new Configuration({ apiKey: process.env.OPENAI_API_KEY, }) const openai =
new OpenAIApi(config)

export async function POST(req: Request) { const { messages } = await req.json()

const response = await openai.createChatCompletion({ model: "gpt-4", stream: true,
messages: [ { role: "system", content: "You are an AI investment assistant for the
Philippines. Help investors find opportunities and navigate government processes. Provide
accurate information about regions, incentives, and procedures.", }, ...messages, ], })

const stream = OpenAIStream(response) return new StreamingTextResponse(stream) }

import { NextResponse } from "next/server" import { OpenAIStream } from "ai" import
{ Configuration, OpenAIApi } from "openai-edge"

const config = new Configuration({ apiKey: process.env.OPENAI_API_KEY, }) const openai =
new OpenAIApi(config)

export async function POST(req: Request) { try { const { requirement, regions } = await
req.json()

// Create a prompt for the AI to analyze the match
const prompt = `
  Analyze the following business requirement and regional profiles to
  find the best matches:

  Business Requirement:
  ${JSON.stringify(requirement, null, 2)}

  Regional Profiles:
  ${JSON.stringify(regions, null, 2)}

  Provide a detailed analysis of the top 5 matching regions,
  including:
  1. Match score (0-100)
  2. Key matching factors
  3. Potential challenges

```

4. Recommendations

```
const response = await openai.createChatCompletion({
  model: "gpt-4",
  messages: [
    {
      role: "system",
      content:
        "You are an AI investment advisor specializing in regional development in the Philippines. Analyze business requirements and regional profiles to find optimal matches.",
    },
    {
      role: "user",
      content: prompt,
    },
  ],
  stream: true,
})

const stream = OpenAIStream(response)
return new Response(stream)

} catch (error) { console.error("Error in matching:", error) return NextResponse.json({ error: "Failed to process matching request" }, { status: 500 }) }
```

```
import { NextResponse } from "next/server"

import type { MatchResult } from "@types"

export async function POST(req: Request) {

  try {

    const { match, escalation } = await req.json()
```

```

// Send email notifications

await sendMatchNotification(match, escalation)

return NextResponse.json({ success: true })

} catch (error) {

  console.error("Error in notification:", error)

  return NextResponse.json({ error: "Failed to send notifications" }, { status: 500 })

}

}

```

```

async function sendMatchNotification(match: MatchResult, escalation: boolean) {

  // Implement email sending logic here

  // Use your preferred email service (SendGrid, AWS SES, etc.)

  console.log("Sending notification for match:", match.id)

  console.log("Escalation:", escalation)

}

```

```
@tailwind base;
```

```
@tailwind components;
```

```
@tailwind utilities;
```

```
@layer base {
```

```
:root {  
  
  --background: 0 0% 100%;  
  
  --foreground: 222.2 84% 4.9%;  
  
  
  --card: 0 0% 100%;  
  
  --card-foreground: 222.2 84% 4.9%;  
  
  
  --popover: 0 0% 100%;  
  
  --popover-foreground: 222.2 84% 4.9%;  
  
  
  --primary: 222.2 47.4% 11.2%;  
  
  --primary-foreground: 210 40% 98%;  
  
  
  --secondary: 210 40% 96.1%;  
  
  --secondary-foreground: 222.2 47.4% 11.2%;  
  
  
  --muted: 210 40% 96.1%;  
  
  --muted-foreground: 215.4 16.3% 46.9%;  
  
  
  --accent: 210 40% 96.1%;  
  
  --accent-foreground: 222.2 47.4% 11.2%;  
}
```

```
--destructive: 0 84.2% 60.2%;  
  
--destructive-foreground: 210 40% 98%;
```

```
--border: 214.3 31.8% 91.4%;  
  
--input: 214.3 31.8% 91.4%;  
  
--ring: 222.2 84% 4.9%;
```

```
--radius: 0.5rem;
```

```
}
```

```
.dark{
```

```
--background: 222.2 84% 4.9%;  
  
--foreground: 210 40% 98%;
```

```
--card: 222.2 84% 4.9%;  
  
--card-foreground: 210 40% 98%;
```

```
--popover: 222.2 84% 4.9%;  
  
--popover-foreground: 210 40% 98%;
```

```
--primary: 210 40% 98%;  
  
--primary-foreground: 222.2 47.4% 11.2%;
```

--secondary: 217.2 32.6% 17.5%;

--secondary-foreground: 210 40% 98%;

--muted: 217.2 32.6% 17.5%;

--muted-foreground: 215 20.2% 65.1%;

--accent: 217.2 32.6% 17.5%;

--accent-foreground: 210 40% 98%;

--destructive: 0 62.8% 30.6%;

--destructive-foreground: 210 40% 98%;

--border: 217.2 32.6% 17.5%;

--input: 217.2 32.6% 17.5%;

--ring: 212.7 26.8% 83.9%;

}

}

@layer base {

* {

@apply border-border;

```
}

body {

  @apply bg-background text-foreground;

}

}

import { Suspense } from "react"

import BusinessRequirementsForm from "@components/business-requirements-form"

import { Card } from "@components/ui/card"

import type { BusinessRequirement } from "@types"

export default function Page() {

  return (

    <main className="container mx-auto p-6">

      <div className="mx-auto max-w-4xl">

        <h1 className="mb-8 text-3xl font-bold">Philippines Regional Investment Matching</h1>

        <Suspense fallback={<Card className="h-[400px] animate-pulse" />}>

          <BusinessRequirementsForm

            onSubmit={async (data: BusinessRequirement) => {

              console.log("Form submitted:", data)

              // Implement form submission and matching logic

            }}

          />

        </Suspense>

      </div>

    </main>

  )
}
```

```

    />

  </Suspense>

</div>

</main>

)

}

import type * as React from "react"

import { cva, type VariantProps } from "class-variance-authority"

import { cn } from "@lib/utls"

const badgeVariants = cva(

  "inline-flex items-center rounded-full border px-2.5 py-0.5 text-xs font-semibold
  transition-colors focus:outline-none focus:ring-2 focus:ring-ring focus:ring-offset-2",

  {

    variants: {

      variant: {

        default: "border-transparent bg-primary text-primary-foreground hover:bg-primary/80",

        secondary: "border-transparent bg-secondary text-secondary-foreground hover:bg-
secondary/80",

        destructive: "border-transparent bg-destructive text-destructive-foreground hover:bg-
destructive/80",

        outline: "text-foreground",

      },

```



```

    },
    defaultVariants: {
      variant: "default",
    },
  },
)

```

```

export interface BadgeProps extends React.HTMLAttributes<HTMLDivElement>,
VariantProps<typeof badgeVariants> {}

```

```

function Badge({ className, variant, ...props }: BadgeProps) {
  return <div className={cn(badgeVariants({ variant })), className)} {...props} />
}

```

```

export { Badge, badgeVariants }

```

```

"use client"

```

```

import type { TooltipProps } from "recharts"

```

```

export function ChartTooltip({ active, payload, label }: TooltipProps<number, string>) {
  if (!active || !payload) return null

  return (

```

```

<div className="rounded-lg border bg-background p-2 shadow-sm">

  <div className="grid grid-cols-2 gap-2">

    <div className="flex flex-col">

      <span className="text-[0.70rem] uppercase text-muted-foreground">{label}</span>

      {payload.map((item) => (

        <span key={item.name} className="font-bold">

          {item.name}: {item.value}

        </span>

      ))}

    </div>

  </div>

</div>

)

}

```

```

export function ChartTooltipContent({ active, payload, label }: TooltipProps<number,
string>) {

```

```

  if (!active || !payload) return null

```

```

  return (

```

```

    <div className="rounded-lg border bg-background p-2 shadow-sm">

```

```

      <div className="grid gap-2">

```

```

        <div className="flex flex-col">

```

```

    <span className="text-[0.70rem] uppercase text-muted-foreground">{label}</span>

    {payload.map((item) => (

      <span key={item.name} className="font-bold text-sm">

        {item.name}: {item.value}

      </span>

    )))}

  </div>

</div>

</div>

)

}

"use client"

```

```
import * as React from "react"
```

```
import * as ProgressPrimitive from "@radix-ui/react-progress"
```

```
import { cn } from "@lib/utls"
```

```
const Progress = React.forwardRef<
```

```
  React.ElementRef<typeof ProgressPrimitive.Root>,
```

```
  React.ComponentPropsWithoutRef<typeof ProgressPrimitive.Root>
```

```
>(({ className, value, ...props }, ref) => (
```

```

<ProgressPrimitive.Root
  ref={ref}

  className={cn("relative h-2 w-full overflow-hidden rounded-full bg-primary/20",
className)}

  {...props}
>

  <ProgressPrimitive.Indicator

    className="h-full w-full flex-1 bg-primary transition-all"

    style={{ transform: `translateX(-${100 - (value || 0)}%)` }}

  />

</ProgressPrimitive.Root>

))

```

```
Progress.displayName = ProgressPrimitive.Root.displayName
```

```
export { Progress }
```

```
"use client"
```

```
import * as React from "react"
```

```
import * as ScrollAreaPrimitive from "@radix-ui/react-scroll-area"
```

```
import { cn } from "@lib/utls"
```

```
const ScrollArea = React.forwardRef<
```

```

    React.ElementRef<typeof ScrollAreaPrimitive.Root>,

    React.ComponentPropsWithoutRef<typeof ScrollAreaPrimitive.Root>

>(({ className, children, ...props }, ref) => (

    <ScrollAreaPrimitive.Root ref={ref} className={cn("relative overflow-hidden",
    className)} {...props}>

        <ScrollAreaPrimitive.Viewport className="h-full w-full rounded-
[inherit]">{children}</ScrollAreaPrimitive.Viewport>

        <ScrollBar />

        <ScrollAreaPrimitive.Corner />

    </ScrollAreaPrimitive.Root>

))

```

```

ScrollArea.displayName = ScrollAreaPrimitive.Root.displayName

```

```

const ScrollBar = React.forwardRef<

    React.ElementRef<typeof ScrollAreaPrimitive.ScrollAreaScrollbar>,

    React.ComponentPropsWithoutRef<typeof ScrollAreaPrimitive.ScrollAreaScrollbar>

>(({ className, orientation = "vertical", ...props }, ref) => (

    <ScrollAreaPrimitive.ScrollAreaScrollbar

        ref={ref}

        orientation={orientation}

        className={cn(

            "flex touch-none select-none transition-colors",

            orientation === "vertical" && "h-full w-2.5 border-l border-l-transparent p-[1px]",

```

```

orientation === "horizontal" && "h-2.5 border-t border-t-transparent p-[1px]",

className,

)}

{...props}

>

<ScrollAreaPrimitive.ScrollAreaThumb className="relative flex-1 rounded-full bg-
border" />

</ScrollAreaPrimitive.ScrollAreaScrollbar>

))

ScrollBar.displayName = ScrollAreaPrimitive.ScrollAreaScrollbar.displayName

export { ScrollArea, ScrollBar }

import * as React from "react"

import { cn } from "@lib/utils"

const Table = React.forwardRef<HTMLTableElement,
React.HTMLAttributes<HTMLTableElement>>(>
  ({ className, ...props }, ref) => (
    <div className="relative w-full overflow-auto">

      <table ref={ref} className={cn("w-full caption-bottom text-sm", className)} {...props}
      />

    </div>

  ),

```

```
)
```

```
Table.displayName = "Table"
```

```
const TableHeader = React.forwardRef<HTMLTableSectionElement,  
React.HTMLAttributes<HTMLTableSectionElement>>(  
  ({ className, ...props }, ref) => <thead ref={ref} className={cn("[&_tr]:border-b",  
  className)} {...props} />,  
  )  
  )  
  TableHeader.displayName = "TableHeader"
```

```
const TableBody = React.forwardRef<HTMLTableSectionElement,  
React.HTMLAttributes<HTMLTableSectionElement>>(  
  ({ className, ...props }, ref) => (  
    <tbody ref={ref} className={cn("[&_tr:last-child]:border-0", className)} {...props} />  
  ),  
  )  
  TableBody.displayName = "TableBody"
```

```
const TableFooter = React.forwardRef<HTMLTableSectionElement,  
React.HTMLAttributes<HTMLTableSectionElement>>(  
  ({ className, ...props }, ref) => (  
    <tfoot ref={ref} className={cn("border-t bg-muted/50 font-medium [&>tr]:last:border-b-0", className)} {...props} />  
  ),  
  )
```

```
)
```

```
TableFooter.displayName = "TableFooter"
```

```
const TableRow = React.forwardRef<HTMLTableRowElement,  
React.HTMLAttributes<HTMLTableRowElement>>(  
  ({ className, ...props }, ref) => (  
    <tr  
      ref={ref}  
      className={cn("border-b transition-colors hover:bg-muted/50 data-  
[state=selected]:bg-muted", className)}  
      {...props}  
    />  
  ),  
)
```

```
TableRow.displayName = "TableRow"
```

```
const TableHead = React.forwardRef<HTMLTableCellElement,  
React.ThHTMLAttributes<HTMLTableCellElement>>(  
  ({ className, ...props }, ref) => (  
    <th  
      ref={ref}  
      className={cn(  
        "h-12 px-4 text-left align-middle font-medium text-muted-foreground  
[&:has([role=checkbox])]:pr-0",
```



```

        className,
      })
      {...props}
    />
  ),
)

TableHead.displayName = "TableHead"

```

```

const TableCell = React.forwardRef<HTMLTableCellElement,
React.TdHTMLAttributes<HTMLTableCellElement>> (
  ({ className, ...props }, ref) => (
    <td ref={ref} className={cn("p-4 align-middle [&:has([role=checkbox]):pr-0",
className)} {...props} />
  ),
)

TableCell.displayName = "TableCell"

```

```

const TableCaption = React.forwardRef<HTMLTableCaptionElement,
React.HTMLAttributes<HTMLTableCaptionElement>> (
  ({ className, ...props }, ref) => (
    <caption ref={ref} className={cn("mt-4 text-sm text-muted-foreground", className)}
    {...props} />
  ),
)

```

```
TableCaption.displayName = "TableCaption"
```

```
export { Table, TableHeader, TableBody, TableFooter, TableHead, TableRow, TableCell,  
TableCaption }
```

```
"use client"
```

```
import { useChat } from "ai/react"
```

```
import { Send } from "lucide-react"
```

```
import { Button } from "@components/ui/button"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { Input } from "@components/ui/input"
```

```
import { ScrollArea } from "@components/ui/scroll-area"
```

```
export default function AIChat() {
```

```
  const { messages, input, handleInputChange, handleSubmit } = useChat({
```

```
    api: "/api/chat",
```

```
  })
```

```
  return (
```

```
    <Card className="h-[600px] flex flex-col">
```

```
      <CardHeader>
```

```
        <CardTitle>Investment Assistant</CardTitle>
```

```

</CardHeader>

<CardContent className="flex-1 flex flex-col">

  <ScrollArea className="flex-1 pr-4">

    <div className="space-y-4">

      {messages.map((message) => (

        <div

          key={message.id}

          className={` flex ${message.role === "assistant" ? "justify-start" : "justify-end"} `}

        >

          <div

            className={` rounded-lg px-4 py-2 max-w-[80%] ${

              message.role === "assistant" ? "bg-muted" : "bg-primary text-primary-
foreground"

            } `}

          >

            {message.content}

          </div>

        </div>

      )

    )}

    </div>

  </ScrollArea>

  <form onSubmit={handleSubmit} className="flex items-center space-x-2 mt-4">

```

```
      <Input placeholder="Ask about investment opportunities..." value={input}
onChange={handleInputChange} />
```

```
      <Button type="submit" size="icon">
```

```
        <Send className="h-4 w-4" />
```

```
        <span className="sr-only">Send message</span>
```

```
      </Button>
```

```
    </form>
```

```
  </CardContent>
```

```
</Card>
```

```
)
```

```
}
```

```
"use client"
```

```
import { useState } from "react"
```

```
import { useForm } from "react-hook-form"
```

```
import { zodResolver } from "@hookform/resolvers/zod"
```

```
import { ArrowRight } from "lucide-react"
```

```
import * as z from "zod"
```

```
import { Button } from "@components/ui/button"
```

```
import { Card, CardContent, CardDescription, CardFooter, CardHeader, CardTitle } from
"@components/ui/card"
```

```
import { Form, FormControl, FormDescription, FormField, FormItem, FormLabel,
FormMessage } from "@components/ui/form"
```

```
import { Input } from "@components/ui/input"

import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@components/ui/select"

import { Separator } from "@components/ui/separator"

import { Slider } from "@components/ui/slider"

import { Switch } from "@components/ui/switch"

import { Textarea } from "@components/ui/textarea"

import type { BusinessRequirement } from "@types"


const formSchema = z.object({

  companyName: z.string().min(2, "Company name is required"),

  industry: z.string().min(2, "Industry is required"),

  investmentSize: z.number().min(100000, "Minimum investment is $100,000"),

  employmentTarget: z.number().min(1, "Employment target is required"),

  infrastructureNeeds: z.object({

    power: z.boolean(),

    water: z.boolean(),

    internet: z.boolean(),

    transportation: z.boolean(),

    ports: z.boolean(),

  }),

  workforceNeeds: z.object({

    skilled: z.number(),
```

```
    unskilled: z.number(),
    technical: z.number(),
  }),
  spaceRequirement: z.object({
    type: z.enum(["land", "office", "industrial"]),
    size: z.number(),
  }),
  timeline: z.string(),
  environmentalFactors: z.array(z.string()),
  additionalRequirements: z.array(z.string()),
  contactPerson: z.object({
    name: z.string(),
    position: z.string(),
    email: z.string().email(),
    phone: z.string(),
  }),
})
```

```
interface BusinessRequirementsFormProps {
  onSubmit: (data: BusinessRequirement) => void
}
```

```
export default function BusinessRequirementsForm({ onSubmit }:  
BusinessRequirementsFormProps) {
```

```
  const [step, setStep] = useState(1)
```

```
  const form = useForm<z.infer<typeof formSchema>>({
```

```
    resolver: zodResolver(formSchema),
```

```
    defaultValues: {
```

```
      infrastructureNeeds: {
```

```
        power: false,
```

```
        water: false,
```

```
        internet: false,
```

```
        transportation: false,
```

```
        ports: false,
```

```
      },
```

```
      workforceNeeds: {
```

```
        skilled: 0,
```

```
        unskilled: 0,
```

```
        technical: 0,
```

```
      },
```

```
    },
```

```
  })
```

```
  const nextStep = () => setStep((prev) => prev + 1)
```

```
  const prevStep = () => setStep((prev) => prev - 1)
```

```
return (  
  
  <Form {...form}>  
  
    <form onSubmit={form.handleSubmit(onSubmit)}>  
  
      <div className="space-y-6">  
  
        {step === 1 && (  
  
          <Card>  
  
            <CardHeader>  
  
              <CardTitle>Company Information</CardTitle>  
  
              <CardDescription>Tell us about your company and investment  
plans</CardDescription>  
  
            </CardHeader>  
  
            <CardContent className="space-y-4">  
  
              <FormField  
  
                control={form.control}  
  
                name="companyName"  
  
                render={({ field }) => (  
  
                  <FormItem>  
  
                    <FormLabel>Company Name</FormLabel>  
  
                    <FormControl>  
  
                      <Input placeholder="Enter company name" {...field} />  
  
                    </FormControl>  
  
                    <FormMessage />  

```



```
</FormItem>
```

```
}}
```

```
/>
```

```
<FormField
```

```
  control={form.control}
```

```
  name="industry"
```

```
  render={({ field }) => (
```

```
    <FormItem>
```

```
      <FormLabel>Industry</FormLabel>
```

```
      <Select onValueChange={field.onChange} defaultValue={field.value}>
```

```
        <FormControl>
```

```
          <SelectTrigger>
```

```
            <SelectValue placeholder="Select industry" />
```

```
          </SelectTrigger>
```

```
        </FormControl>
```

```
      <SelectContent>
```

```
        <SelectItem value="manufacturing">Manufacturing</SelectItem>
```

```
        <SelectItem value="technology">Technology</SelectItem>
```

```
        <SelectItem value="agriculture">Agriculture</SelectItem>
```

```
        <SelectItem value="tourism">Tourism</SelectItem>
```

```
        <SelectItem value="energy">Energy</SelectItem>
```

```

        </SelectContent>

    </Select>

    <FormMessage />

</FormItem>

    })

/>

<FormField

    control={form.control}

    name="investmentSize"

    render={({ field }) => (

        <FormItem>

            <FormLabel>Investment Size (USD)</FormLabel>

            <FormControl>

                <div className="flex items-center space-x-4">

                    <Slider

                        min={100000}

                        max={10000000}

                        step={100000}

                        value={field.value}

                        onChange={([value]) => field.onChange(value)}

                    />

```

```

        <span className="min-w-[100px] text-right">

            {new Intl.NumberFormat("en-US", {

                style: "currency",

                currency: "USD",

                maximumFractionDigits: 0,

            }).format(field.value)}

        </span>

    </div>

</FormControl>

<FormMessage />

</FormItem>

    })

/>

</CardContent>

<CardFooter className="justify-end">

    <Button onClick={nextStep}>

        Next

        <ArrowRight className="ml-2 h-4 w-4" />

    </Button>

</CardFooter>

</Card>

    })

```

```

{step === 2 && (

  <Card>

    <CardHeader>

      <CardTitle>Infrastructure & Workforce</CardTitle>

      <CardDescription>Specify your infrastructure and workforce
requirements</CardDescription>

    </CardHeader>

    <CardContent className="space-y-6">

      <div className="space-y-4">

        <h3 className="font-medium">Infrastructure Needs</h3>

        {Object.keys(form.getValues().infrastructureNeeds).map((need) => (

          <FormField

            key={need}

            control={form.control}

            name={`infrastructureNeeds.${need}`}

            render={({ field }) => (

              <FormItem className="flex items-center justify-between">

                <FormLabel className="capitalize">{need}</FormLabel>

                <FormControl>

                  <Switch checked={field.value} onChange={field.onChange} />

                </FormControl>

              </FormItem>

```

```
    })  
  />  
  )})  
</div>
```

```
<Separator />
```

```
<div className="space-y-4">  
  
  <h3 className="font-medium">Workforce Requirements</h3>  
  
  {Object.entries(form.getValues().workforceNeeds).map(([type, value]) => (  
  
    <FormField  
  
      key={type}  
  
      control={form.control}  
  
      name={`workforceNeeds.${type}`}  
  
      render={({ field }) => (  
  
        <FormItem>  
  
          <FormLabel className="capitalize">{type}</FormLabel>  
  
          <FormControl>  
  
            <Input  
  
              type="number"  
  
              min={0}  
  
              {...field}
```

```

        onChange={(e) => field.onChange(Number.parseInt(e.target.value))}

      />

    </FormControl>

  </FormItem>

  })

/>

  )})

</div>

</CardContent>

<CardFooter className="justify-between">

  <Button variant="outline" onClick={prevStep}>

    Previous

  </Button>

  <Button onClick={nextStep}>

    Next

    <ArrowRight className="ml-2 h-4 w-4" />

  </Button>

</CardFooter>

</Card>

  )}

{step === 3 && (

```

```

<Card>

  <CardHeader>

    <CardTitle>Additional Information</CardTitle>

    <CardDescription>Provide contact details and any additional
requirements</CardDescription>

  </CardHeader>

  <CardContent className="space-y-4">

    <div className="grid gap-4">

      <FormField

        control={form.control}

        name="contactPerson.name"

        render={({ field }) => (

          <FormItem>

            <FormLabel>Contact Name</FormLabel>

            <FormControl>

              <Input {...field} />

            </FormControl>

            <FormMessage />

          </FormItem>

        )}

      />

    </div>

  </CardContent>

</Card>

```

```
control={form.control}

name="contactPerson.position"

render={({ field }) => (

  <FormItem>

    <FormLabel>Position</FormLabel>

    <FormControl>

      <Input {...field} />

    </FormControl>

    <FormMessage />

  </FormItem>

)}

/>
```

```
<FormField

control={form.control}

name="contactPerson.email"

render={({ field }) => (

  <FormItem>

    <FormLabel>Email</FormLabel>

    <FormControl>

      <Input type="email" {...field} />

    </FormControl>
```



```
    <FormMessage />
```

```
  </FormItem>
```

```
}}
```

```
/>
```

```
<FormField
```

```
  control={form.control}
```

```
  name="contactPerson.phone"
```

```
  render={({ field }) => (
```

```
    <FormItem>
```

```
      <FormLabel>Phone</FormLabel>
```

```
      <FormControl>
```

```
        <Input {...field} />
```

```
      </FormControl>
```

```
      <FormMessage />
```

```
    </FormItem>
```

```
  )}
```

```
/>
```

```
</div>
```

```
<FormField
```

```
  control={form.control}
```

```
name="additionalRequirements"
```

```
render={({ field }) => (
```

```
  <FormItem>
```

```
    <FormLabel>Additional Requirements</FormLabel>
```

```
    <FormControl>
```

```
      <Textarea
```

```
        placeholder="Enter any additional requirements or preferences"
```

```
        className="h-32"
```

```
        onChange={(e) => field.onChange(e.target.value.split("\n"))}
```

```
      />
```

```
    </FormControl>
```

```
    <FormDescription>Enter each requirement on a new line</FormDescription>
```

```
    <FormMessage />
```

```
  </FormItem>
```

```
)}
```

```
/>
```

```
</CardContent>
```

```
<CardFooter className="justify-between">
```

```
  <Button variant="outline" onClick={prevStep}>
```

```
    Previous
```

```
  </Button>
```

```
  <Button type="submit">Submit Requirements</Button>
```

```

        </CardFooter>

    </Card>

    })

</div>

</form>

</Form>

)

}

"use client"

import { useEffect, useState } from "react" import { Bell, Building2, Mail, Phone, Search }
from "lucide-react"

import { Badge } from "@components/ui/badge" import { Button } from
"@components/ui/button" import { Card, CardContent, CardHeader, CardTitle } from
"@components/ui/card" import { Progress } from "@components/ui/progress" import
{ ScrollArea } from "@components/ui/scroll-area" import { Select, SelectContent,
SelectItem, SelectTrigger, SelectValue } from "@components/ui/select" import
{ Separator } from "@components/ui/separator" import { Slider } from
"@components/ui/slider" import { Table, TableBody, TableCell, TableHead, TableHeader,
TableRow } from "@components/ui/table"

// Types interface Alert { id: string type: string message: string time: string }

interface Contact { id: string name: string position: string department: string office: string
email: string phone: string }

interface Project { id: string title: string description: string department: string budget:
number progress: number status: "planned" | "ongoing" | "completed" }

// Sample data const alerts: Alert[] = [ { id: "1", type: "Market Update", message: "PSEi up by
2.3% in morning trading", time: "2 mins ago", }, { id: "2", type: "Investment Alert", message:
"New tax incentives announced for tech sector", time: "5 mins ago", }, { id: "3", type:

```

```
"Regional Update", message: "Clark Freeport Zone opens new facilities", time: "10 mins ago", }, ],
```

```
const contacts: Contact[] = [ { id: "1", name: "Maria Santos", position: "Regional Director", department: "DTI", office: "NCR Regional Office", email: "maria.santos@dti.gov.ph", phone: "+63 2 8751 0384", }, { id: "2", name: "Juan Dela Cruz", position: "Investment Specialist", department: "BOI", office: "Central Office", email: "juan.delacruz@boi.gov.ph", phone: "+63 2 8575 3500", }, ]
```

```
const projects: Project[] = [ { id: "1", title: "Clark Green City Development", description: "Sustainable urban development project in Clark, Pampanga", department: "BCDA", budget: 50000000000, progress: 45, status: "ongoing", }, { id: "2", title: "Mindanao Railway Project", description: "Railway system connecting key cities in Mindanao", department: "DOTr", budget: 82000000000, progress: 25, status: "ongoing", }, ]
```

```
export default function Dashboard() { const [mounted, setMounted] = useState(false) const [selectedDepartment, setSelectedDepartment] = useState("") const [investmentSize, setInvestmentSize] = useState(1000000)
```

```
useEffect(() => { setMounted(true) }, [])
```

```
if (!mounted) { return null }
```

```
return (
```

Philippines Investment Portal

```
<div className="grid gap-6 md:grid-cols-2">
  {/* Real-time Alerts */}
  <Card>
    <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
      <CardTitle className="text-base font-medium">Real-Time Alerts</CardTitle>
      <Bell className="h-4 w-4 text-muted-foreground" />
    </CardHeader>
    <CardContent>
      <Table>
        <TableHeader>
```

```

        <TableRow>
          <TableHead>Type</TableHead>
          <TableHead>Alert</TableHead>
          <TableHead>Time</TableHead>
        </TableRow>
      </TableHeader>
      <TableBody>
        {alerts.map((alert) => (
          <TableRow key={alert.id}>
            <TableCell className="font-
medium">{alert.type}</TableCell>
            <TableCell>{alert.message}</TableCell>
            <TableCell>{alert.time}</TableCell>
          </TableRow>
        ))}
      </TableBody>
    </Table>
  </CardContent>
</Card>

{/* Investment Matcher */}
<Card>
  <CardHeader>
    <CardTitle className="text-base font-medium">Investment
Matching</CardTitle>
  </CardHeader>
  <CardContent>
    <div className="space-y-4">
      <div className="space-y-2">
        <label className="text-sm font-medium">Industry
Sector</label>
        <Select onChange={(value) => console.log(value)}>
          <SelectTrigger>
            <SelectValue placeholder="Select sector" />
          </SelectTrigger>
          <SelectContent>
            <SelectItem
value="manufacturing">Manufacturing</SelectItem>
            <SelectItem value="technology">Technology</SelectItem>

```

```

        <SelectedItem
value="agriculture">Agriculture</SelectedItem>
        <SelectedItem value="tourism">Tourism</SelectedItem>
    </SelectContent>
</Select>
</div>

<div className="space-y-2">
    <label className="text-sm font-medium">Investment Size
(USD)</label>
    <div className="flex items-center space-x-4">
        <Slider
            min={100000}
            max={10000000}
            step={100000}
            value={[investmentSize]}
            onChange={([value]) => setInvestmentSize(value)}
        />
        <span className="min-w-[100px] text-right">
            {new Intl.NumberFormat("en-US", {
                style: "currency",
                currency: "USD",
                maximumFractionDigits: 0,
            }).format(investmentSize)}
        </span>
    </div>
</div>

    <Button className="w-full" onClick={() =>
console.log("Matching...")}>
        <Search className="mr-2 h-4 w-4" />
        Find Opportunities
    </Button>
</div>
</CardContent>
</Card>

{/* Project Tracker */}
<Card>

```

```

    <CardHeader>
      <CardTitle className="text-base font-medium">Government
Projects</CardTitle>
    </CardHeader>
    <CardContent>
      <ScrollArea className="h-[300px] pr-4">
        <div className="space-y-4">
          {projects.map((project) => (
            <div key={project.id} className="rounded-lg border p-4
hover:bg-accent">
              <div className="flex items-start justify-between">
                <div>
                  <h3 className="font-semibold">{project.title}</h3>
                  <p className="text-sm text-muted-
foreground">{project.department}</p>
                </div>
                <Badge variant="outline">{project.status}</Badge>
              </div>
              <div className="mt-4 space-y-2">
                <div className="flex items-center justify-between
text-sm">
                  <span>Budget</span>
                  <span>
                    {new Intl.NumberFormat("en-US", {
                      style: "currency",
                      currency: "PHP",
                      maximumFractionDigits: 0,
                    }).format(project.budget)}
                  </span>
                </div>
                <Progress value={project.progress} className="h-2"
/>
                  <p className="text-xs text-muted-
foreground">Progress: {project.progress}%</p>
                </div>
              </div>
            )})}
          </div>
        </ScrollArea>

```

```

        </CardContent>
    </Card>

    {/* Government Contacts */}
    <Card>
        <CardHeader className="flex flex-row items-center justify-
between space-y-0 pb-2">
            <CardTitle className="text-base font-medium">Government
Contacts</CardTitle>
            <Select value={selectedDepartment}
onValueChange={setSelectedDepartment}>
                <SelectTrigger className="w-[180px]">
                    <SelectValue placeholder="All Departments" />
                </SelectTrigger>
                <SelectContent>
                    <SelectItem value="All">All Departments</SelectItem>
                    <SelectItem value="DTI">DTI</SelectItem>
                    <SelectItem value="BOI">BOI</SelectItem>
                    <SelectItem value="PEZA">PEZA</SelectItem>
                </SelectContent>
            </Select>
        </CardHeader>
        <CardContent>
            <ScrollArea className="h-[300px] pr-4">
                <div className="space-y-4">
                    {contacts
                        .filter((contact) => !selectedDepartment ||
contact.department === selectedDepartment)
                        .map((contact) => (
                            <div key={contact.id} className="rounded-lg border p-4
hover:bg-accent">
                                <div className="flex items-start justify-between">
                                    <div>
                                        <h3 className="font-
semibold">{contact.name}</h3>
                                        <p className="text-sm text-muted-
foreground">{contact.position}</p>
                                    </div>
                                    <Badge>{contact.department}</Badge>
                                </div>
                            </div>
                        )
                    }
                </div>
            </ScrollArea>
        </CardContent>
    </Card>

```



```

        </div>
        <Separator className="my-2" />
        <div className="grid gap-2">
            <div className="flex items-center text-sm">
                <Building2 className="mr-2 h-4 w-4" />
                {contact.office}
            </div>
            <div className="flex items-center text-sm">
                <Mail className="mr-2 h-4 w-4" />
                {contact.email}
            </div>
            <div className="flex items-center text-sm">
                <Phone className="mr-2 h-4 w-4" />
                {contact.phone}
            </div>
        </div>
    </div>
    )))
</div>
</ScrollArea>
</CardContent>
</Card>
</div>
</div>

```

```

    })

```

```

import { AlertCircle } from "lucide-react"

```

```

import { Alert, AlertDescription, AlertTitle } from "@components/ui/alert"

```

```

interface ErrorStateProps {

```

```

    title: string

```

```

    description: string

```

```
}
```

```
export default function ErrorState({ title, description }: ErrorStateProps) {
```

```
  return (
```

```
    <Alert variant="destructive">
```

```
      <AlertCircle className="h-4 w-4" />
```

```
      <AlertTitle>{title}</AlertTitle>
```

```
      <AlertDescription>{description}</AlertDescription>
```

```
    </Alert>
```

```
  )
```

```
}
```

```
"use client"
```

```
import { Building2, Mail, Phone } from "lucide-react"
```

```
import { Badge } from "@components/ui/badge"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from  
"@components/ui/select"
```

```
import { Separator } from "@components/ui/separator"
```

```
import type { GovernmentContact } from "@types"
```

```
interface GovernmentContactsProps {
```

```
contacts: GovernmentContact[]  
}
```

```
export default function GovernmentContacts({ contacts }: GovernmentContactsProps) {  
  return (  
    <Card>
```

```
      <CardHeader className="space-y-4">
```

```
        <CardTitle>Government Contacts Directory</CardTitle>
```

```
        <div className="flex space-x-4">
```

```
          <Select>
```

```
            <SelectTrigger className="w-[200px]">
```

```
              <SelectValue placeholder="Select Department" />
```

```
            </SelectTrigger>
```

```
            <SelectContent>
```

```
              <SelectItem value="dti">Department of Trade and Industry</SelectItem>
```

```
              <SelectItem value="doi">Department of Interior</SelectItem>
```

```
              <SelectItem value="da">Department of Agriculture</SelectItem>
```

```
            </SelectContent>
```

```
          </Select>
```

```
          <Select>
```

```
            <SelectTrigger className="w-[200px]">
```

```
              <SelectValue placeholder="Select Region" />
```

```
</SelectTrigger>

<SelectContent>

  <SelectItem value="ncr">National Capital Region</SelectItem>

  <SelectItem value="r1">Region I</SelectItem>

  <SelectItem value="r2">Region II</SelectItem>

</SelectContent>

</Select>

</div>

</CardHeader>

<CardContent className="grid gap-4">

  {contacts.map((contact) => (

    <div key={contact.id} className="rounded-lg border p-4 hover:bg-accent">

      <div className="flex items-start justify-between">

        <div>

          <h3 className="font-semibold">{contact.name}</h3>

          <p className="text-sm text-muted-foreground">{contact.position}</p>

        </div>

        <Badge>{contact.department}</Badge>

      </div>

      <Separator className="my-2" />

      <div className="grid gap-2">

        <div className="flex items-center text-sm">
```

```

    <Building2 className="mr-2 h-4 w-4" />

    {contact.office}

  </div>

  <div className="flex items-center text-sm">

    <Mail className="mr-2 h-4 w-4" />

    {contact.email}

  </div>

  <div className="flex items-center text-sm">

    <Phone className="mr-2 h-4 w-4" />

    {contact.phone}

  </div>

</div>

</div>

  )}

</CardContent>

</Card>

)

}

"use client"

import { AlertTriangle } from "lucide-react"

```

```
import { Alert, AlertDescription, AlertTitle } from "@components/ui/alert"

import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"

import { ScrollArea } from "@components/ui/scroll-area"

import type { InvestmentAlert } from "@types"


interface InvestmentAlertsProps {

  alerts: InvestmentAlert[]

}


export default function InvestmentAlerts({ alerts }: InvestmentAlertsProps) {

  // Fallback data if no alerts are provided

  const defaultAlerts: InvestmentAlert[] = [

    {

      id: "1",

      title: "New Investment Opportunity",

      description: "Tech sector showing strong growth potential in NCR",

      severity: "medium",

      timestamp: new Date().toISOString(),

    },

  ]


  const displayAlerts = alerts.length > 0 ? alerts : defaultAlerts
```

```
return (  
  
  <Card>  
  
    <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">  
  
      <CardTitle className="text-base font-medium">Investment Alerts</CardTitle>  
  
      <AlertTriangle className="h-4 w-4 text-muted-foreground" />  
  
    </CardHeader>  
  
    <CardContent>  
  
      <ScrollArea className="h-[300px] pr-4">  
  
        {displayAlerts.map((alert) => (  
  
          <Alert  
  
            key={alert.id}  
  
            variant={alert.severity === "high" ? "destructive" : alert.severity === "medium" ?  
"default" : "outline"}  
  
            className="mb-3"  
  
          >  
  
            <AlertTitle>{alert.title}</AlertTitle>  
  
            <AlertDescription>{alert.description}</AlertDescription>  
  
          </Alert>  
  
        )})  
  
      </ScrollArea>  
  
    </CardContent>  
  
  </Card>
```

```
)  
}
```

```
"use client"
```

```
import { useEffect, useState } from "react"
```

```
import dynamic from "next/dynamic"
```

```
import { Card } from "@components/ui/card"
```

```
import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from  
"@components/ui/tooltip"
```

```
import { fetchInvestmentAlerts, fetchMarketSentiment, fetchRegionalData,  
fetchRiskAnalysis } from "@lib/api"
```

```
import type { InvestmentAlert, RegionalData, RiskAnalysis } from "@types"
```

```
// Dynamically import components
```

```
const RealTimeAlerts = dynamic(() => import("@components/real-time-alerts"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```

```
const InvestmentAlerts = dynamic(() => import("@components/investment-alerts"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```



```
})
```

```
const RiskAnalysisCard = dynamic(() => import("@/components/risk-analysis-card"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```

```
const MarketSentimentChart = dynamic(() => import("@/components/market-sentiment-  
chart"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```

```
const RegionalMap = dynamic(() => import("@/components/regional-map"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```

```
const PhilippinesMap = dynamic(() => import("@/components/philippines-map"), {  
  ssr: false,  
  loading: () => <Card className="h-[300px] animate-pulse bg-muted" />,  
})
```

```
const LoadingDashboard = dynamic(() => import("@/components/loading-states"), {  
  ssr: false,  
})
```

```
const ErrorState = dynamic(() => import("@/components/empty-states"), {  
  ssr: false,  
})
```

```
export default function RealTimeDashboard() {  
  const [regionalData, setRegionalData] = useState<RegionalData | null>(null)  
  const [investmentAlerts, setInvestmentAlerts] = useState<InvestmentAlert[]>([])  
  const [riskAnalysis, setRiskAnalysis] = useState<RiskAnalysis | null>(null)  
  const [marketSentiment, setMarketSentiment] = useState<number[]>([])  
  const [loading, setLoading] = useState(true)  
  const [error, setError] = useState<string | null>(null)  
  
  useEffect(() => {  
    const fetchData = async () => {  
      try {  
        const [regional, alerts, risk, sentiment] = await Promise.all([  
          fetchRegionalData("NCR"),  
          fetchInvestmentAlerts(),  
          fetchRiskAnalysis(),  
          fetchMarketSentiment(),  
        ])
```

```
    fetchRiskAnalysis("NCR"),  
    fetchMarketSentiment(),  
  ])  
  setRegionalData(regional)  
  setInvestmentAlerts(alerts)  
  setRiskAnalysis(risk)  
  setMarketSentiment(sentiment)  
} catch (err) {  
  setError("Failed to load real-time data. Please try again later.")  
} finally {  
  setLoading(false)  
}  
}
```

```
  fetchData()  
}, [])
```

```
if (loading) {  
  return <LoadingDashboard />  
}
```

```
if (error) {
```

```
    return <ErrorState title="Error loading dashboard" description={error} />
  }
}
```

```
return (
  <TooltipProvider>
    <div className="grid gap-6 p-6 md:grid-cols-2 lg:grid-cols-3">
      <RealTimeAlerts />
      <InvestmentAlerts alerts={investmentAlerts} />
      <RiskAnalysisCard
        data={
          riskAnalysis || {
            political: 0,
            crime: 0,
            economy: 0,
            details: { political: [], crime: [], economy: [] },
            lastUpdated: "",
          }
        }
      />
      <MarketSentimentChart data={marketSentiment} />
      <Tooltip>
        <TooltipTrigger asChild>
```

```
<div>

  <RegionalMap data={regionalData?.regions || []} onRegionSelect={() => {}} />

</div>

</TooltipTrigger>

<TooltipContent>Click on a region to view details</TooltipContent>

</Tooltip>

<Tooltip>

  <TooltipTrigger asChild>

    <div>

      <PhilippinesMap

        provinces={regionalData?.provinces || []}

        opportunities={regionalData?.opportunities || []}

        onProvinceSelect={() => {}}

        onOpportunitySelect={() => {}}

      />

    </div>

  </TooltipTrigger>

  <TooltipContent>Click on a province to view investment
opportunities</TooltipContent>

</Tooltip>

</div>

</TooltipProvider>

)
```

```
}
```

```
"use client"
```

```
import { Gift } from "lucide-react"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { Table, TableBody, TableCell, TableHead, TableHeader, TableRow } from  
"@components/ui/table"
```

```
import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from  
"@components/ui/tooltip"
```

```
import type { InvestmentIncentive } from "@types"
```

```
interface InvestmentIncentivesProps {
```

```
  incentives: InvestmentIncentive[]
```

```
}
```

```
export default function InvestmentIncentives({ incentives }: InvestmentIncentivesProps) {
```

```
  return (
```

```
    <Card>
```

```
      <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
```

```
        <CardTitle className="text-base font-medium">Government Incentives</CardTitle>
```

```
        <Gift className="h-4 w-4 text-muted-foreground" />
```

```
      </CardHeader>
```

```
<CardContent>
```

```
<TooltipProvider>
```

```
<Table>
```

```
<TableHeader>
```

```
<TableRow>
```

```
<TableHead>Type</TableHead>
```

```
<TableHead>Title</TableHead>
```

```
<TableHead>Region</TableHead>
```

```
<TableHead>Expiry</TableHead>
```

```
</TableRow>
```

```
</TableHeader>
```

```
<TableBody>
```

```
{incentives.map((incentive) => (
```

```
<TableRow key={incentive.id}>
```

```
<TableCell>{incentive.type}</TableCell>
```

```
<TableCell>
```

```
<Tooltip>
```

```
<TooltipTrigger className="text-left">{incentive.title}</TooltipTrigger>
```

```
<TooltipContent>
```

```
<div className="max-w-xs">
```

```
<p className="font-medium">Benefits:</p>
```

```
<ul className="list-disc pl-4 text-sm">
```

```

        {incentive.benefits.map((benefit, index) => (
            <li key={index}>{benefit}</li>

        ))}
    </ul>

</div>

</TooltipContent>

</Tooltip>

</TableCell>

<TableCell>{incentive.region}</TableCell>

<TableCell>{new Date(incentive.expiryDate).toLocaleDateString()}</TableCell>

</TableRow>

    ))}

</TableBody>

</Table>

</TooltipProvider>

</CardContent>

</Card>

)

}

```

"use client"


```
import type React from "react"
```

```
import { useEffect, useState } from "react"
```

```
import { Search } from "lucide-react"
```

```
import { Button } from "@components/ui/button"
```

```
import { Card, CardContent, CardDescription, CardHeader, CardTitle } from  
"@components/ui/card"
```

```
import { Input } from "@components/ui/input"
```

```
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from  
"@components/ui/select"
```

```
import { Separator } from "@components/ui/separator"
```

```
import { Slider } from "@components/ui/slider"
```

```
import type { CompanyRequirement, RegionData } from "@types"
```

```
interface InvestmentMatcherProps {
```

```
  regions: RegionData[]
```

```
  onMatch: (requirements: CompanyRequirement) => void
```

```
}
```

```
const initialRequirements: CompanyRequirement = {
```

```
  industry: "",
```

```
  investmentSize: 100000,
```

```
employmentTarget: 0,  
  
infrastructureNeeds: [],  
  
resourceRequirements: [],  
  
timeline: "",  
  
}
```

```
export default function InvestmentMatcher({ regions, onMatch }: InvestmentMatcherProps)  
{
```

```
  const [mounted, setMounted] = useState(false)
```

```
  const [requirements, setRequirements] =  
  useState<CompanyRequirement>(initialRequirements)
```

```
  useEffect(() => {
```

```
    setMounted(true)
```

```
  }, [])
```

```
  const handleSubmit = (e: React.FormEvent) => {
```

```
    e.preventDefault()
```

```
    onMatch(requirements)
```

```
  }
```

```
  if (!mounted) {
```

```
    return null // Prevent hydration mismatch
```

```
}
```

```
return (
```

```
<Card>
```

```
<CardHeader>
```

```
<CardTitle>Investment Matching System</CardTitle>
```

```
<CardDescription>Enter your requirements to find the perfect investment  
location</CardDescription>
```

```
</CardHeader>
```

```
<CardContent>
```

```
<form onSubmit={handleSubmit} className="space-y-6">
```

```
<div className="space-y-2">
```

```
<label className="text-sm font-medium">Industry</label>
```

```
<Select
```

```
value={requirements.industry}
```

```
onValueChange={(value) => setRequirements({ ...requirements, industry: value })}
```

```
>
```

```
<SelectTrigger>
```

```
<SelectValue placeholder="Select Industry" />
```

```
</SelectTrigger>
```

```
<SelectContent>
```

```
{["Manufacturing", "Technology", "Agriculture", "Tourism", "Energy"].map((industry)  
=> (
```

```
      <SelectItem key={industry} value={industry.toLowerCase()}>
        {industry}
      </SelectItem>
    )}
  </SelectContent>
</Select>
</div>
```

```
<div className="space-y-2">
  <label className="text-sm font-medium">Investment Size (USD)</label>
  <div className="flex items-center space-x-4">
    <Slider
      min={100000}
      max={10000000}
      step={100000}
      value={[requirements.investmentSize]}
      onValueChange={([value]) => setRequirements({ ...requirements, investmentSize:
value })}
    />
    <span className="min-w-[100px] text-right">
      {new Intl.NumberFormat("en-US", {
        style: "currency",
        currency: "USD",
```

```
        maximumFractionDigits: 0,

    }).format(requirements.investmentSize)}

</span>

</div>

</div>

<div className="space-y-2">

    <label className="text-sm font-medium">Employment Target</label>

    <Input

        type="number"

        min={0}

        value={requirements.employmentTarget}

        onChange={(e) =>

            setRequirements({

                ...requirements,

                employmentTarget: Number.parseInt(e.target.value) || 0,

            })

        }

    />

</div>

<Separator />
```

```

    <div className="flex justify-end">

      <Button type="submit">

        <Search className="mr-2 h-4 w-4" />

        Find Matches

      </Button>

    </div>

  </form>

</CardContent>

</Card>

)

}

"use client"

import { Briefcase } from "lucide-react"

import { Badge } from "@/components/ui/badge"

import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"

import { Table, TableBody, TableCell, TableHead, TableHeader, TableRow } from
"@/components/ui/table"

import type { InvestmentOpportunity } from "@/types"

interface InvestmentOpportunitiesProps {

```

```
opportunities: InvestmentOpportunity[]

onSelect: (opportunity: InvestmentOpportunity) => void

}
```

```
export default function InvestmentOpportunities({ opportunities, onSelect }:
InvestmentOpportunitiesProps) {

  return (

    <Card>

      <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">

        <CardTitle className="text-base font-medium">Investment
Opportunities</CardTitle>

        <Briefcase className="h-4 w-4 text-muted-foreground" />

      </CardHeader>

      <CardContent>

        <Table>

          <TableHeader>

            <TableRow>

              <TableHead>Sector</TableHead>

              <TableHead>Region</TableHead>

              <TableHead>Investment (USD)</TableHead>

              <TableHead>Jobs</TableHead>

              <TableHead>Status</TableHead>

            </TableRow>


```

```
</TableHeader>
```

```
<TableBody>
```

```
{opportunities.map((opportunity) => (
```

```
<TableRow
```

```
key={opportunity.id}
```

```
className="cursor-pointer hover:bg-accent"
```

```
onClick={() => onSelect(opportunity)}
```

```
>
```

```
<TableCell className="font-medium">{opportunity.sector}</TableCell>
```

```
<TableCell>{opportunity.region}</TableCell>
```

```
<TableCell>
```

```
{opportunity.investmentSize.toLocaleString("en-US", {
```

```
style: "currency",
```

```
currency: "USD",
```

```
minimumFractionDigits: 0,
```

```
maximumFractionDigits: 0,
```

```
}}}
```

```
</TableCell>
```

```
<TableCell>{opportunity.jobsCreated.toLocaleString()}</TableCell>
```

```
<TableCell>
```

```
<Badge
```

```
variant={
```



```

        opportunity.status === "open"

        ? "default"

        : opportunity.status === "pending"

        ? "secondary"

        : "outline"

    }

    >

    {opportunity.status}

</Badge>

</TableCell>

</TableRow>

    )}

</TableBody>

</Table>

</CardContent>

</Card>

)

}

import { Card, CardContent, CardHeader } from "@components/ui/card"

import { Skeleton } from "@components/ui/skeleton"

export default function LoadingDashboard() {

```

```

return (

  <div className="grid gap-6 md:grid-cols-2 lg:grid-cols-3">

    {Array.from({ length: 6 }).map((_, i) => (

      <Card key={i} className="overflow-hidden">

        <CardHeader className="space-y-2 p-4">

          <Skeleton className="h-4 w-1/2" />

          <Skeleton className="h-4 w-3/4" />

        </CardHeader>

        <CardContent className="p-4">

          <Skeleton className="h-[200px]" />

        </CardContent>

      </Card>

    ))}

  </div>

)

}

"use client"

import { TrendingUp } from "lucide-react"

import { Line, LineChart, ResponsiveContainer, Tooltip, XAxis, YAxis } from "recharts"

import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"

```

```
import { ChartTooltipContent } from "@components/ui/chart"
```

```
interface MarketSentimentChartProps {
```

```
  data: number[]
```

```
}
```

```
export default function MarketSentimentChart({ data }: MarketSentimentChartProps) {
```

```
  // Transform the data array into the format required by recharts
```

```
  const chartData = data.map((value, index) => ({
```

```
    timestamp: new Date(Date.now() - (data.length - 1 - index) * 3600000).toISOString(),
```

```
    sentiment: value,
```

```
  })))
```

```
  return (
```

```
    <Card>
```

```
      <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
```

```
        <CardTitle className="text-base font-medium">Market Sentiment</CardTitle>
```

```
        <TrendingUp className="h-4 w-4 text-muted-foreground" />
```

```
      </CardHeader>
```

```
      <CardContent>
```

```
        <div className="h-[300px]">
```

```
          <ResponsiveContainer width="100%" height="100%">
```

```

<LineChart data={chartData}>

  <XAxis

    dataKey="timestamp"

    tickFormatter={(value) => {

      return new Date(value).toLocaleTimeString([], {

        hour: "2-digit",

        minute: "2-digit",

      })

    }}

  />

  <YAxis />

  <Line type="monotone" dataKey="sentiment" stroke="hsl(var(--primary))"
strokeWidth={2} dot={false} />

  <Tooltip content={<ChartTooltipContent />} />

</LineChart>

</ResponsiveContainer>

</div>

</CardContent>

</Card>

)

}

"use client"

```

```
import { TrendingUp } from "lucide-react"
```

```
import { Area, AreaChart, ResponsiveContainer, Tooltip, XAxis, YAxis } from "recharts"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { ChartTooltipContent } from "@components/ui/chart"
```

```
import type { MarketTrend } from "@types"
```

```
interface MarketTrendsProps {
```

```
  data: MarketTrend[]
```

```
}
```

```
export default function MarketTrends({ data }: MarketTrendsProps) {
```

```
  return (
```

```
    <Card>
```

```
      <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
```

```
        <CardTitle className="text-base font-medium">Market Trends</CardTitle>
```

```
        <TrendingUp className="h-4 w-4 text-muted-foreground" />
```

```
      </CardHeader>
```

```
      <CardContent>
```

```
        <div className="h-[300px]">
```

```
          <ResponsiveContainer width="100%" height="100%">
```

```
            <AreaChart data={data}>
```

```
<XAxis

  dataKey="date"

  tickFormatter={value => {

    return new Date(value).toLocaleDateString(undefined, {

      month: "short",

      year: "2-digit",

    })

  }}

/>
```

```
<YAxis />
```

```
<Tooltip content={<ChartTooltipContent />} />
```

```
<Area

  type="monotone"

  dataKey="fdi"

  name="FDI (USD Millions)"

  stroke="hsl(var(--primary))"

  fill="hsl(var(--primary))"

  fillOpacity={0.2}

/>
```

```
<Area

  type="monotone"

  dataKey="gdpGrowth"
```

```
      name="GDP Growth (%)"

      stroke="hsl(var(--secondary))"

      fill="hsl(var(--secondary))"

      fillOpacity={0.2}

    />

    <Area

      type="monotone"

      dataKey="employmentRate"

      name="Employment Rate (%)"

      stroke="hsl(var(--accent))"

      fill="hsl(var(--accent))"

      fillOpacity={0.2}

    />

  </AreaChart>

</ResponsiveContainer>

</div>

</CardContent>

</Card>

)

}

"use client"
```

```
import { Award, Mail, MapPin } from "lucide-react"
```

```
import { Badge } from "@components/ui/badge"
```

```
import { Button } from "@components/ui/button"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { Progress } from "@components/ui/progress"
```

```
import { ScrollArea } from "@components/ui/scroll-area"
```

```
import { Table, TableBody, TableCell, TableHead, TableHeader, TableRow } from  
"@components/ui/table"
```

```
import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from  
"@components/ui/tooltip"
```

```
import type { MatchResult, RegionalProfile } from "@types"
```

```
interface MatchResultsProps {
```

```
  matches: MatchResult[]
```

```
  regions: RegionalProfile[]
```

```
  onContactRegion: (match: MatchResult) => void
```

```
}
```

```
export default function MatchResults({ matches, regions, onContactRegion }:  
MatchResultsProps) {
```

```
  const getRegionName = (regionId: string) => {
```

```
    const region = regions.find((r) => r.id === regionId)
```

```
    return region ? region.name : "Unknown Region"
```



```
}
```

```
const getScoreColor = (score: number) => {
```

```
  if (score >= 80) return "text-green-500"
```

```
  if (score >= 60) return "text-yellow-500"
```

```
  return "text-red-500"
```

```
}
```

```
return (
```

```
  <Card>
```

```
    <CardHeader>
```

```
      <CardTitle className="flex items-center gap-2">
```

```
        <Award className="h-5 w-5" />
```

```
        Top Regional Matches
```

```
      </CardTitle>
```

```
    </CardHeader>
```

```
    <CardContent>
```

```
      <ScrollArea className="h-[600px] pr-4">
```

```
        <div className="space-y-6">
```

```
          {matches.map((match, index) => (
```

```
            <Card key={match.id}>
```

```
              <CardHeader className="pb-2">
```

```
<div className="flex items-start justify-between">

  <div>

    <h3 className="font-semibold">{getRegionName(match.regionId)}</h3>

    <p className="text-sm text-muted-foreground">

      Match Score:{" "}

      <span
className={getScoreColor(match.matchScore)}>{match.matchScore.toFixed(1)}%</span>

    </p>

  </div>

  <Badge variant={index < 3 ? "default" : "secondary"}>Rank #{index + 1}</Badge>

</div>

</CardHeader>

<CardContent className="space-y-4">

  <Table>

    <TableHeader>

      <TableRow>

        <TableHead>Factor</TableHead>

        <TableHead>Score</TableHead>

        <TableHead className="w-[100px]">Rating</TableHead>

      </TableRow>

    </TableHeader>

    <TableBody>
```

```

{match.matchFactors.map((factor) => (

  <TableRow key={factor.factor}>

    <TableCell className="font-medium">

      <TooltipProvider>

        <Tooltip>

          <TooltipTrigger className="cursor-help">{factor.factor}</TooltipTrigger>

          <TooltipContent>

            <p className="max-w-xs">{factor.details}</p>

          </TooltipContent>

        </Tooltip>

      </TooltipProvider>

    </TableCell>

    <TableCell>{factor.score.toFixed(1)}%</TableCell>

    <TableCell>

      <Progress

        value={factor.score}

        className={

          factor.score >= 80

            ? "bg-green-500"

            : factor.score >= 60

            ? "bg-yellow-500"

            : "bg-red-500"

```

```
    }  
  />  
  
</TableCell>  
  
</TableRow>  
  
  )}}  
  
</TableBody>  
  
</Table>
```

```
<div className="flex justify-between">  
  
  <Button  
  
    variant="outline"  
  
    size="sm"  
  
    className="gap-2"  
  
    onClick={() => {  
  
      // Open region details  
  
    }}  
  
  >  
  
    <MapPin className="h-4 w-4" />  
  
    View Details  
  
  </Button>  
  
  <Button size="sm" className="gap-2" onClick={() =>  
onContactRegion(match)}>  
  
    <Mail className="h-4 w-4" />
```

```

        Contact Region

    </Button>

</div>

</CardContent>

</Card>

)}}

</div>

</ScrollArea>

</CardContent>

</Card>

)

}

"use client"

import { useEffect, useState } from "react"

import { Bot } from "lucide-react"

import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"

import { Progress } from "@components/ui/progress"

import type { BusinessRequirement, MatchResult, RegionalProfile } from "@types"

interface MatchingEngineProps {

```

```
  requirement: BusinessRequirement  
  regions: RegionalProfile[]  
  onMatchComplete: (matches: MatchResult[]) => void  
}
```

```
export default function MatchingEngine({ requirement, regions, onMatchComplete }:  
MatchingEngineProps) {
```

```
  const [progress, setProgress] = useState(0)
```

```
  const [status, setStatus] = useState("Initializing matching engine...")
```

```
  useEffect(() => {
```

```
    const matchRegions = async () => {
```

```
      setStatus("Analyzing business requirements...")
```

```
      setProgress(20)
```

```
      await new Promise((resolve) => setTimeout(resolve, 1000))
```

```
      setStatus("Evaluating regional profiles...")
```

```
      setProgress(40)
```

```
      await new Promise((resolve) => setTimeout(resolve, 1000))
```

```
      setStatus("Calculating match scores...")
```

```
      setProgress(60)
```

```
await new Promise((resolve) => setTimeout(resolve, 1000))
```

```
setStatus("Ranking potential matches...")
```

```
setProgress(80)
```

```
await new Promise((resolve) => setTimeout(resolve, 1000))
```

```
setStatus("Finalizing results...")
```

```
setProgress(100)
```

```
// Calculate matches
```

```
const matches = regions
```

```
.map((region) => {
```

```
  const infrastructureScore = calculateInfrastructureScore(requirement, region)
```

```
  const workforceScore = calculateWorkforceScore(requirement, region)
```

```
  const locationScore = calculateLocationScore(requirement, region)
```

```
  const incentivesScore = calculateIncentivesScore(region)
```

```
  const totalScore = (infrastructureScore + workforceScore + locationScore +  
incentivesScore) / 4
```

```
  return {
```

```
    id: `match-${region.id}`,
```

```
    businessId: requirement.id,
```

```
    regionId: region.id,
```

```
matchScore: totalScore,

matchFactors: [

  {

    factor: "Infrastructure",

    score: infrastructureScore,

    details: "Based on available facilities and utilities",

  },

  {

    factor: "Workforce",

    score: workforceScore,

    details: "Based on available skilled and unskilled labor",

  },

  {

    factor: "Location",

    score: locationScore,

    details: "Based on accessibility and market proximity",

  },

  {

    factor: "Incentives",

    score: incentivesScore,

    details: "Based on available government incentives",

  },

]
```



```

    ],
    status: "pending",
    timeline: {
        created: new Date().toISOString(),
    },
    notes: [],
} as MatchResult
}))

.sort((a, b) => b.matchScore - a.matchScore)

.slice(0, 5)

onMatchComplete(matches)
}

matchRegions()
}, [requirement, regions, onMatchComplete])

return (
    <Card>
        <CardHeader>
            <CardTitle className="flex items-center gap-2">
                <Bot className="h-5 w-5" />

```

AI Matching Engine

</CardTitle>

</CardHeader>

<CardContent className="space-y-4">

<Progress value={progress} className="h-2" />

<p className="text-sm text-muted-foreground">{status}</p>

</CardContent>

</Card>

)

}

// Scoring functions

function calculateInfrastructureScore(requirement: BusinessRequirement, region: RegionalProfile): number {

let score = 0

const { infrastructureNeeds } = requirement

if (infrastructureNeeds.power && region.infrastructure.power.available) {

score += 25

}

if (infrastructureNeeds.water && region.infrastructure.water.available) {

score += 25

}

```

    if (infrastructureNeeds.internet && region.infrastructure.internet.available) {

        score += 25

    }

    if (

        infrastructureNeeds.transportation &&

        (region.infrastructure.transportation.airports > 0 ||
region.infrastructure.transportation.highways > 0)

    ){

        score += 25

    }


    return score

}


function calculateWorkforceScore(requirement: BusinessRequirement, region:
RegionalProfile): number {

    const requiredTotal =

        requirement.workforceNeeds.skilled + requirement.workforceNeeds.unskilled +
requirement.workforceNeeds.technical


    const availableTotal = region.workforce.skilled + region.workforce.unskilled +
region.workforce.technical


    return Math.min((availableTotal / requiredTotal) * 100, 100)

```

```
}
```

```
function calculateLocationScore(requirement: BusinessRequirement, region:  
RegionalProfile): number {
```

```
    // Basic location score based on space availability
```

```
    let score = 0
```

```
    const { spaceRequirement } = requirement
```

```
    if (spaceRequirement.type === "land") {
```

```
        score = (region.landAvailability.industrial / spaceRequirement.size) * 100
```

```
    } else if (spaceRequirement.type === "office") {
```

```
        score = (region.landAvailability.commercial / spaceRequirement.size) * 100
```

```
    }
```

```
    return Math.min(score, 100)
```

```
}
```

```
function calculateIncentivesScore(region: RegionalProfile): number {
```

```
    // Score based on number of incentives
```

```
    return Math.min((region.incentives.tax.length + region.incentives.other.length) * 10, 100)
```

```
}
```

```
"use client"
```

```
import { Map } from "lucide-react"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import type { Opportunity, Province } from "@types"
```

```
interface PhilippinesMapProps {
```

```
  provinces: Province[]
```

```
  opportunities: Opportunity[]
```

```
  onProvinceSelect: (province: Province) => void
```

```
  onOpportunitySelect: (opportunity: Opportunity) => void
```

```
}
```

```
export default function PhilippinesMap({
```

```
  provinces,
```

```
  opportunities,
```

```
  onProvinceSelect,
```

```
  onOpportunitySelect,
```

```
}: PhilippinesMapProps) {
```

```
  return (
```

```
    <Card>
```

```
      <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
```

```
        <CardTitle className="text-base font-medium">Philippines Investment  
Map</CardTitle>
```

```
    <Map className="h-4 w-4 text-muted-foreground" />

  </CardHeader>

  <CardContent>

    <div className="flex h-[300px] items-center justify-center">

      <p className="text-sm text-muted-foreground">Interactive map implementation
required</p>

    </div>

  </CardContent>

</Card>

)

}

"use client"
```

```
import { useEffect, useState } from "react"
```

```
import { Clock, Target } from "lucide-react"
```

```
import { Badge } from "@/components/ui/badge"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
```

```
import { Progress } from "@/components/ui/progress"
```

```
import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from
"@/components/ui/tooltip"
```

```
import type { GovernmentProject } from "@/types"
```

```
interface ProjectTrackerProps {  
  projects: GovernmentProject[]  
}
```

```
export default function ProjectTracker({ projects }: ProjectTrackerProps) {
```

```
  const [mounted, setMounted] = useState(false)
```

```
  useEffect(() => {  
    setMounted(true)  
  }, [])
```

```
  const getStatusColor = (status: GovernmentProject["status"]) => {
```

```
    switch (status) {  
      case "planned":  
        return "bg-yellow-500"  
      case "ongoing":  
        return "bg-green-500"  
      case "completed":  
        return "bg-blue-500"  
      default:  
        return "bg-gray-500"  
    }
```

```
}
```

```
const calculateProgress = (project: GovernmentProject) => {
```

```
  if (!mounted) return 0 // Return 0 during SSR
```

```
  const start = new Date(project.startDate).getTime()
```

```
  const end = new Date(project.endDate).getTime()
```

```
  const now = new Date().getTime()
```

```
  const progress = ((now - start) / (end - start)) * 100
```

```
  return Math.min(Math.max(progress, 0), 100)
```

```
}
```

```
if (!mounted) {
```

```
  return null // Prevent hydration mismatch
```

```
}
```

```
return (
```

```
  <Card>
```

```
    <CardHeader>
```

```
      <CardTitle>Government Projects</CardTitle>
```

```
    </CardHeader>
```

```
    <CardContent className="grid gap-4">
```



```

{projects.map((project) => (

  <TooltipProvider key={project.id}>

    <Tooltip>

      <TooltipTrigger asChild>

        <div className="rounded-lg border p-4 hover:bg-accent">

          <div className="flex items-start justify-between">

            <div>

              <h3 className="font-semibold">{project.title}</h3>

              <p className="text-sm text-muted-foreground">

                {project.department} - {project.region}

              </p>

            </div>

            <Badge variant="outline">{project.status}</Badge>

          </div>

          <div className="mt-4 space-y-2">

            <div className="flex items-center justify-between text-sm">

              <div className="flex items-center">

                <Clock className="mr-2 h-4 w-4" />

                Timeline

              </div>

              <span>

                {new Date(project.startDate).toLocaleDateString()} -{" "}


```

```
        {new Date(project.endDate).toLocaleDateString()}

    </span>

</div>

<div className="flex items-center justify-between text-sm">

    <div className="flex items-center">

        <Target className="mr-2 h-4 w-4" />

        Budget

    </div>

    <span>

        {new Intl.NumberFormat("en-US", {

            style: "currency",

            currency: "PHP",

        }).format(project.budget)}

    </span>

</div>

    <Progress value={calculateProgress(project)}

className={getStatusColor(project.status)} />

</div>

</div>

</TooltipTrigger>

<TooltipContent>

    <p className="max-w-xs">{project.description}</p>

</TooltipContent>
```

```
        </Tooltip>

    </TooltipProvider>

    )}

</CardContent>

</Card>

)

}

"use client"

import { Bell } from "lucide-react"

import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"

import { Table, TableBody, TableCell, TableHead, TableHeader, TableRow } from
"~/components/ui/table"

interface Alert {

    id: string

    type: string

    message: string

    time: string

}

const alerts: Alert[] = [
```

```
{  
  
  id: "1",  
  
  type: "Market Update",  
  
  message: "PSEi up by 2.3% in morning trading",  
  
  time: "2 mins ago",  
  
},  
  
{  
  
  id: "2",  
  
  type: "Currency Alert",  
  
  message: "PHP strengthens against USD",  
  
  time: "5 mins ago",  
  
},  
  
{  
  
  id: "3",  
  
  type: "Trading Alert",  
  
  message: "Unusual volume detected in banking sector",  
  
  time: "10 mins ago",  
  
},  
  
]
```

```
export default function RealTimeAlerts() {  
  
  return (  

```

```
<Card>

  <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">

    <CardTitle className="text-base font-medium">Real-Time Market Alerts</CardTitle>

    <Bell className="h-4 w-4 text-muted-foreground" />

  </CardHeader>

  <CardContent>

    <Table>

      <TableHeader>

        <TableRow>

          <TableHead>Type</TableHead>

          <TableHead>Alert</TableHead>

          <TableHead>Time</TableHead>

        </TableRow>

      </TableHeader>

      <TableBody>

        {alerts.map((alert) => (

          <TableRow key={alert.id}>

            <TableCell className="font-medium">{alert.type}</TableCell>

            <TableCell>{alert.message}</TableCell>

            <TableCell>{alert.time}</TableCell>

          </TableRow>

        ))}

      </TableBody>

    </Table>

  </CardContent>

</Card>
```

```

        </TableBody>

    </Table>

</CardContent>

</Card>

)

}

"use client"

import { useMemo } from "react"

import { Map } from "lucide-react"

import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"

import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@components/ui/select"

import type { RegionalData } from "@types"

interface RegionalMapProps {

    data: RegionalData[]

    onRegionSelect: (region: RegionalData) => void

}

export default function RegionalMap({ data, onRegionSelect }: RegionalMapProps) {

    const regions = useMemo(

```

```
() => [  
  
  { id: "NCR", name: "National Capital Region" },  
  
  { id: "R1", name: "Ilocos Region" },  
  
  { id: "R2", name: "Cagayan Valley" },  
  
  { id: "R3", name: "Central Luzon" },  
  
  { id: "R4A", name: "CALABARZON" },  
  
  { id: "R4B", name: "MIMAROPA" },  
  
  { id: "R5", name: "Bicol Region" },  
  
  { id: "R6", name: "Western Visayas" },  
  
  { id: "R7", name: "Central Visayas" },  
  
  { id: "R8", name: "Eastern Visayas" },  
  
  { id: "R9", name: "Zamboanga Peninsula" },  
  
  { id: "R10", name: "Northern Mindanao" },  
  
  { id: "R11", name: "Davao Region" },  
  
  { id: "R12", name: "SOCCSKSARGEN" },  
  
  { id: "R13", name: "Caraga" },  
  
  { id: "BARMM", name: "Bangsamoro" },  
  
],  
  
[],  
  
)
```

```
return (
```

```

<Card>

  <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">

    <CardTitle className="text-base font-medium">Regional Investment
Map</CardTitle>

    <Map className="h-4 w-4 text-muted-foreground" />

  </CardHeader>

  <CardContent>

    <div className="mb-4">

      <Select

        onValueChange={(value) => {

          const region = data.find((r) => r.id === value)

          if (region) onRegionSelect(region)

        }}

      >

        <SelectTrigger>

          <SelectValue placeholder="Select a region" />

        </SelectTrigger>

        <SelectContent>

          {regions.map((region) => (

            <SelectItem key={region.id} value={region.id}>

              {region.name}

            </SelectItem>

          ))}

        </SelectContent>

      </Select>

    </div>

  </CardContent>

</Card>

```



```
        </SelectContent>

    </Select>

</div>

<div className="grid gap-4">

    {data.map((region) => (

        <div

            key={region.id}

            className="flex items-center justify-between rounded-lg border p-4 hover:bg-
accent"

            role="button"

            onClick={() => onRegionSelect(region)}

        >

            <div>

                <h3 className="font-medium">{region.name}</h3>

                <p className="text-sm text-muted-foreground">GDP Growth:
{region.gdpGrowth}%</p>

            </div>

            <div className="text-right">

                <p className="text-sm font-medium">Investment Score:
{region.investmentScore}</p>

                <p className="text-sm text-muted-foreground">Labor Force:
{region.laborForce.toLocaleString()}</p>

            </div>

        </div>

    )}

</div>
```

```

    )))
  </div>

</CardContent>

</Card>

)
}

"use client"

import { Shield } from "lucide-react"

import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"

import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from
"@components/ui/tooltip"

import type { RiskAnalysis } from "@types"

interface RiskAnalysisCardProps {
  data: RiskAnalysis
}

export default function RiskAnalysisCard({ data }: RiskAnalysisCardProps) {
  const getRiskColor = (value: number) => {
    if (value < 30) return "text-green-500"
    if (value < 70) return "text-yellow-500"
  }

```

```
    return "text-red-500"
  }
}
```

```
return (
  <Card>
    <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
      <CardTitle className="text-base font-medium">Risk Analysis</CardTitle>
      <Shield className="h-4 w-4 text-muted-foreground" />
    </CardHeader>
    <CardContent>
      <TooltipProvider>
        <div className="grid gap-4">
          <Tooltip>
            <TooltipTrigger asChild>
              <div className="flex items-center justify-between">
                <span>Political Risk</span>
                <span className={getRiskColor(data.political)}>{data.political}%</span>
              </div>
            </TooltipTrigger>
            <TooltipContent>
              <ul className="list-disc pl-4">
                {data.details.political.map((detail, i) => (
```

```

        <li key={i}>{detail}</li>

    )))

</ul>

</TooltipContent>

</Tooltip>

<Tooltip>

  <TooltipTrigger asChild>

    <div className="flex items-center justify-between">

      <span>Crime Risk</span>

      <span className={getRiskColor(data.crime)}>{data.crime}%</span>

    </div>

  </TooltipTrigger>

  <TooltipContent>

    <ul className="list-disc pl-4">

      {data.details.crime.map((detail, i) => (

        <li key={i}>{detail}</li>

      )))}

    </ul>

  </TooltipContent>

</Tooltip>

```

```

<Tooltip>

  <TooltipTrigger asChild>

    <div className="flex items-center justify-between">

      <span>Economic Risk</span>

      <span className={getRiskColor(data.economy)}>{data.economy}%</span>

    </div>

  </TooltipTrigger>

  <TooltipContent>

    <ul className="list-disc pl-4">

      {data.details.economy.map((detail, i) => (

        <li key={i}>{detail}</li>

      )))}

    </ul>

  </TooltipContent>

</Tooltip>

</div>

</TooltipProvider>

<div className="mt-4 text-xs text-muted-foreground">

  Last updated: {new Date(data.lastUpdated).toLocaleString()}

</div>

</CardContent>

</Card>

```

```
)  
}
```

```
"use client"
```

```
import { Shield } from "lucide-react"
```

```
import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card"
```

```
import { Progress } from "@components/ui/progress"
```

```
import { Tooltip, TooltipContent, TooltipProvider, TooltipTrigger } from  
"@components/ui/tooltip"
```

```
import type { RiskMetrics } from "@types"
```

```
interface RiskAnalysisProps {
```

```
  data: RiskMetrics
```

```
}
```

```
export default function RiskAnalysis({ data }: RiskAnalysisProps) {
```

```
  const getRiskColor = (value: number) => {
```

```
    if (value >= 70) return "bg-green-500"
```

```
    if (value >= 40) return "bg-yellow-500"
```

```
    return "bg-red-500"
```

```
  }
```

```

return (

<Card>

  <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">

    <CardTitle className="text-base font-medium">Risk Analysis</CardTitle>

    <Shield className="h-4 w-4 text-muted-foreground" />

  </CardHeader>

  <CardContent>

    <TooltipProvider>

      <div className="space-y-4">

        <div className="space-y-2">

          <div className="flex items-center justify-between">

            <span className="text-sm font-medium">Political Stability</span>

            <span className="text-sm text-muted-foreground">{data.political}%</span>

          </div>

          <Tooltip>

            <TooltipTrigger asChild>

              <Progress value={data.political} className={getRiskColor(data.political)} />

            </TooltipTrigger>

            <TooltipContent>

              <ul className="list-disc pl-4">

                {data.details.political.map((detail, i) => (

                  <li key={i}>{detail}</li>

```

```

    )}

  </ul>

</TooltipContent>

</Tooltip>

</div>

<div className="space-y-2">

  <div className="flex items-center justify-between">

    <span className="text-sm font-medium">Economic Outlook</span>

    <span className="text-sm text-muted-foreground">{data.economic}%</span>

  </div>

  <Tooltip>

    <TooltipTrigger asChild>

      <Progress value={data.economic} className={getRiskColor(data.economic)} />

    </TooltipTrigger>

    <TooltipContent>

      <ul className="list-disc pl-4">

        {data.details.economic.map((detail, i) => (

          <li key={i}>{detail}</li>

        ))}

      </ul>

    </TooltipContent>

```



```
</Tooltip>
```

```
</div>
```

```
<div className="space-y-2">
```

```
<div className="flex items-center justify-between">
```

```
<span className="text-sm font-medium">Infrastructure</span>
```

```
<span className="text-sm text-muted-foreground">{data.infrastructure}%</span>
```

```
</div>
```

```
<Tooltip>
```

```
<TooltipTrigger asChild>
```

```
<Progress value={data.infrastructure}  
className={getRiskColor(data.infrastructure)} />
```

```
</TooltipTrigger>
```

```
<TooltipContent>
```

```
<ul className="list-disc pl-4">
```

```
{data.details.infrastructure.map((detail, i) => (
```

```
<li key={i}>{detail}</li>
```

```
)))
```

```
</ul>
```

```
</TooltipContent>
```

```
</Tooltip>
```

```
</div>
```

```
<div className="space-y-2">

  <div className="flex items-center justify-between">

    <span className="text-sm font-medium">Workforce Availability</span>

    <span className="text-sm text-muted-foreground">{data.workforce}%</span>

  </div>

  <Tooltip>

    <TooltipTrigger asChild>

      <Progress value={data.workforce} className={getRiskColor(data.workforce)} />

    </TooltipTrigger>

    <TooltipContent>

      <ul className="list-disc pl-4">

        {data.details.workforce.map((detail, i) => (

          <li key={i}>{detail}</li>

        ))}

      </ul>

    </TooltipContent>

  </Tooltip>

</div>

</div>

</TooltipProvider>

</CardContent>
```

```
    </Card>

  )
}

// lib/api.ts

import type { InvestmentAlert, RegionalData, RiskAnalysis } from "@/types"

export async function fetchInvestmentAlerts(): Promise<InvestmentAlert[]> {

  // Replace with your actual API call

  return []
}

export async function fetchMarketSentiment(): Promise<number[]> {

  // Replace with your actual API call

  return []
}

export async function fetchRegionalData(region: string): Promise<RegionalData | null> {

  // Replace with your actual API call

  return null
}

export async function fetchRiskAnalysis(region: string): Promise<RiskAnalysis | null> {
```

```
// Replace with your actual API call

return null

}

import { clsx, type ClassValue } from "clsx"

import { twMerge } from "tailwind-merge"


export function cn(...inputs: ClassValue[]) {

  return twMerge(clsx(inputs))

}

export interface BusinessRequirement {

  id: string

  companyName: string

  industry: string

  investmentSize: number

  employmentTarget: number

  preferredLocations?: string[]

  infrastructureNeeds: {

    power: boolean

    water: boolean

    internet: boolean

    transportation: boolean

    ports: boolean
```

```
}  
  
workforceNeeds: {  
  
    skilled: number  
  
    unskilled: number  
  
    technical: number  
  
}  
  
spaceRequirement: {  
  
    type: "land" | "office" | "industrial"  
  
    size: number // in square meters  
  
}  
  
timeline: string  
  
environmentalFactors: string[]  
  
additionalRequirements: string[]  
  
contactPerson: {  
  
    name: string  
  
    position: string  
  
    email: string  
  
    phone: string  
  
}  
  
}
```

```
export interface RegionalProfile {
```

id: string

name: string

province: string

population: number

workforce: {

skilled: number

unskilled: number

technical: number

}

infrastructure: {

power: {

available: boolean

capacity: number

reliability: number

}

water: {

available: boolean

capacity: number

quality: number

}

internet: {

available: boolean

```
    speed: number

    providers: number
  }

  transportation: {

    airports: number

    seaports: number

    highways: number
  }
}

landAvailability: {

  industrial: number

  commercial: number

  agricultural: number
}

incentives: {

  tax: string[]

  other: string[]
}

contacts: {

  government: GovernmentContact[]

  department: DepartmentContact[]
}
```

```
naturalResources: string[]  
majorIndustries: string[]  
educationalInstitutions: number  
costOfLiving: number  
qualityOfLife: number  
}
```

```
export interface GovernmentContact {  
  id: string  
  name: string  
  position: string  
  department: string  
  email: string  
  phone: string  
  responseTime?: number // in hours  
}
```

```
export interface DepartmentContact {  
  id: string  
  name: string  
  role: string  
  email: string
```



```
    phone: string
}
```

```
export interface MatchResult {
```

```
    id: string
```

```
    businessId: string
```

```
    regionId: string
```

```
    matchScore: number
```

```
    matchFactors: {
```

```
        factor: string
```

```
        score: number
```

```
        details: string
```

```
    }[]
```

```
    status: "pending" | "contacted" | "responded" | "escalated" | "matched" | "rejected"
```

```
    timeline: {
```

```
        created: string
```

```
        contacted?: string
```

```
        responded?: string
```

```
        escalated?: string
```

```
        matched?: string
```

```
        rejected?: string
```

```
    }
```

```
    notes: string[]  
  }  
}
```

```
export interface EmailTemplate {  
  type: "business" | "government" | "escalation"  
  subject: string  
  body: string  
  attachments?: string[]  
}
```

```
"use client"
```

```
import { useEffect, useState } from "react"
```

```
import type { InvestmentIncentive, InvestmentOpportunity, MarketTrend, RegionalData,  
RiskMetrics } from "@types"
```

```
import InvestmentIncentives from "@components/investment-incentives"
```

```
import InvestmentOpportunities from "@components/investment-opportunities"
```

```
import MarketTrends from "@components/market-trends"
```

```
import RegionalMap from "@components/regional-map"
```

```
import RiskAnalysis from "@components/risk-analysis"
```

```
// Simulated data fetching functions
```

```
const fetchMockData = () => {
```

```
const regionalData: RegionalData[] = [  
  
  {  
  
    id: "NCR",  
  
    name: "National Capital Region",  
  
    population: 13484462,  
  
    gdpGrowth: 7.2,  
  
    laborForce: 6500000,  
  
    averageWage: 22000,  
  
    infrastructureScore: 85,  
  
    investmentScore: 90,  
  
    coordinates: [14.6091, 120.9876],  
  
  },  
  
  // Add more regions...  
  
]
```

```
const incentives: InvestmentIncentive[] = [  
  
  {  
  
    id: "1",  
  
    type: "BOI",  
  
    title: "Tax Holiday for Tech Companies",  
  
    description: "4-6 year income tax holiday for tech companies",  
  
    requirements: ["Minimum investment of $1M", "Create 50 local jobs"],  
  
  },  
  
  // Add more incentives...  
  
]
```

```
    benefits: ["Income tax holiday", "Duty-free importation"],  
    region: "NCR",  
    expiryDate: "2024-12-31",  
  },  
  // Add more incentives...  
]
```

```
const riskMetrics: RiskMetrics = {  
  political: 75,  
  economic: 82,  
  infrastructure: 68,  
  workforce: 88,  
  details: {  
    political: ["Stable government", "Strong foreign relations"],  
    economic: ["Growing GDP", "Controlled inflation"],  
    infrastructure: ["Improving transport", "Digital infrastructure"],  
    workforce: ["Young population", "High education rate"],  
  },  
}
```

```
const marketTrends: MarketTrend[] = Array.from({ length: 12 }, (_, i) => ({  
  date: new Date(2024, i, 1).toISOString(),
```

```
    fdi: Math.random() * 1000 + 500,  
    gdpGrowth: Math.random() * 3 + 5,  
    employmentRate: Math.random() * 10 + 85,  
  )))
```

```
const opportunities: InvestmentOpportunity[] = [  
  {  
    id: "1",  
    sector: "Technology",  
    region: "NCR",  
    investmentSize: 1000000,  
    jobsCreated: 100,  
    incentives: ["Tax holiday", "Duty-free importation"],  
    description: "Tech hub development project",  
    status: "open",  
  },  
  // Add more opportunities...  
]
```

```
return {  
  regionalData,  
  incentives,
```

```
    riskMetrics,  
    marketTrends,  
    opportunities,  
  }  
}
```

```
export default function InvestmentDashboard() {  
  const [data, setData] = useState(<  
    regionalData: RegionalData[]  
    incentives: InvestmentIncentive[]  
    riskMetrics: RiskMetrics  
    marketTrends: MarketTrend[]  
    opportunities: InvestmentOpportunity[]  
  > | null>(null)  
  
  useEffect(() => {  
    const mockData = fetchMockData()  
    setData(mockData)  
  }, [])  
  
  if (!data) {  
    return <div>Loading...</div>  
  }  
}
```

```
}
```

```
return (
```

```
<div className="container mx-auto p-6">
```

```
<h1 className="mb-6 text-2xl font-bold">Philippines Investment Dashboard</h1>
```

```
<div className="grid gap-6 md:grid-cols-2 lg:grid-cols-3">
```

```
<RegionalMap
```

```
  data={data.regionalData}
```

```
  onRegionSelect={(region) => {
```

```
    console.log("Selected region:", region)
```

```
  }}
```

```
/>
```

```
<RiskAnalysis data={data.riskMetrics} />
```

```
<MarketTrends data={data.marketTrends} />
```

```
<InvestmentIncentives incentives={data.incentives} />
```

```
<div className="md:col-span-2">
```

```
<InvestmentOpportunities
```

```
  opportunities={data.opportunities}
```

```
  onSelect={(opportunity) => {
```

```
    console.log("Selected opportunity:", opportunity)
```

```
  }}
```

```
/>
```

</div>

</div>

</div>

)

}

```
/** @type {import('tailwindcss').Config} / module.exports = { darkMode: ["class"], content:
[ "./pages/**/*.ts,tsx", "./components/**/*.ts,tsx", "./app/**/*.ts,tsx",
"./src/**/*.ts,tsx",
"*.js,ts,jsx,tsx,mdx", ], theme: { container: { center: true, padding: "2rem", screens: { "2xl":
"1400px", }, }, extend: { colors: { border: "hsl(var(--border))", input: "hsl(var(--input))", ring:
"hsl(var(--ring))", background: "hsl(var(--background))", foreground: "hsl(var(--
foreground))", primary: { DEFAULT: "hsl(var(--primary))", foreground: "hsl(var(--primary-
foreground))", }, secondary: { DEFAULT: "hsl(var(--secondary))", foreground: "hsl(var(--
secondary-foreground))", }, destructive: { DEFAULT: "hsl(var(--destructive))", foreground:
"hsl(var(--destructive-foreground))", }, muted: { DEFAULT: "hsl(var(--muted))", foreground:
"hsl(var(--muted-foreground))", }, accent: { DEFAULT: "hsl(var(--accent))", foreground:
"hsl(var(--accent-foreground))", }, popover: { DEFAULT: "hsl(var(--popover))", foreground:
"hsl(var(--popover-foreground))", }, card: { DEFAULT: "hsl(var(--card))", foreground:
"hsl(var(--card-foreground))", }, }, borderRadius: { lg: "var(--radius)", md: "calc(var(--radius)
- 2px)", sm: "calc(var(--radius) - 4px)", }, keyframes: { "accordion-down": { from: { height: 0 },
to: { height: "var(--radix-accordion-content-height)" }, }, "accordion-up": { from: { height:
"var(--radix-accordion-content-height)" }, to: { height: 0 }, }, }, animation: { "accordion-
down": "accordion-down 0.2s ease-out", "accordion-up": "accordion-up 0.2s ease-
out", }, }, }, plugins: [require("tailwindcss-animate")], }
```

```
export interface RegionalData {
```

```
  id: string
```

```
  name: string
```

```
  population: number
```

```
  gdpGrowth: number
```

```
  laborForce: number
```



```
averageWage: number

infrastructureScore: number

investmentScore: number

coordinates: [number, number]

}
```

```
export interface InvestmentIncentive {

  id: string

  type: "BOI" | "PEZA" | "LGU"

  title: string

  description: string

  requirements: string[]

  benefits: string[]

  region: string

  expiryDate: string

}
```

```
export interface RiskMetrics {

  political: number

  economic: number

  infrastructure: number

  workforce: number

}
```

```
details: {  
  
    political: string[]  
  
    economic: string[]  
  
    infrastructure: string[]  
  
    workforce: string[]  
  
}  
}
```

```
export interface InvestmentOpportunity {  
  
    id: string  
  
    sector: string  
  
    region: string  
  
    investmentSize: number  
  
    jobsCreated: number  
  
    incentives: string[]  
  
    description: string  
  
    status: "open" | "pending" | "closed"  
  
}
```

```
export interface MarketTrend {  
  
    date: string  
  
    fdi: number
```

```

    gdpGrowth: number

    employmentRate: number
  }

  "use client";

import { NextResponse } from "next/server"; import { MongoClient } from "mongodb";
import type { MatchResult } from "@types"; import nodemailer from "nodemailer";

// MongoDB Connection Setup const client = new
MongoClient(process.env.MONGO_URI!); const db = client.db("investment-matching");
const matchesCollection = db.collection("matches");

// Email Transporter Setup const transporter = nodemailer.createTransport({ service:
"braydenmwalls1972@gmail.com", auth: { user: process.env.EMAIL_USER, pass:
process.env.EMAIL_PASS, }, });

export async function POST(req: Request) { try { const { match, escalation } = await
req.json();

// Ensure match ID and necessary fields exist
if (!match?.id || !match?.companyName) {
  return NextResponse.json({ error: "Match ID and company name are
required" }, { status: 400 });
}

// Store match in MongoDB
await matchesCollection.updateOne(
  { "match.id": match.id },
  { $set: { match, escalation, createdAt: new Date() } },
  { upsert: true }
);

// Send email notification
const emailSent = await sendMatchNotification(match, escalation);

if (!emailSent) {
  // Schedule escalation if email fails
  setTimeout(() => escalateNotification(match.id), 24 * 60 * 60 *

```

```
1000); // 24-hour delay
}
```

```
return NextResponse.json({ success: true });
```

```
} catch (error) { console.error("Error in notification:", error); return
NextResponse.json({ error: "Failed to send notifications" }, { status: 500 }); }
```

```
async function sendMatchNotification(match: MatchResult, escalation: boolean): Promise
{ try { if (!match?.governmentEmail) { console.error("No government email provided for
match:", match.id); return false; }
```

```
const mailOptions = {
  from: process.env.EMAIL_USER,
  to: match.governmentEmail,
  subject: `New Investment Match - ${match.companyName}`,
  text: `A new business match has been found for ${match.companyName}.
Please respond within 24 hours.` ,
};
```

```
await transporter.sendMail(mailOptions);
console.log(`Notification sent for match: ${match.id}`);
return true;
```

```
} catch (error) { console.error(Failed to send email for match: ${match.id},
error); return false; }
```

```
// Escalation Function (if no response in 24 hours) async function
escalateNotification(matchId: string) { const matchEntry = await
matchesCollection.findOne({ "match.id": matchId }); if (!matchEntry ||
matchEntry.escalation || !matchEntry.match) return;
```

```
console.log(Escalating match ${matchId} to mayor/governor.); await
matchesCollection.updateOne({ "match.id": matchId }, { $set: { escalation: true } });
```

```
const recipientEmail = matchEntry.match.mayorEmail ||
matchEntry.match.governorEmail; if (!recipientEmail) { console.error(No escalation
contact found for match: ${matchId}); return; }
```

```
await sendMatchNotification({ ...matchEntry.match, governmentEmail: recipientEmail, },  
true); }
```

