

# Sync Smart Home Frontend Source Code

## app/add-device/page.tsx

```
// add-device/pages.tsx
"use client"

import type React from "react"

import { useState } from "react"
import { useRouter } from "next/navigation"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import {
  Lightbulb,
  Thermometer,
  Fan,
  Tv,
  Lock,
  Plus,
  Plug,
  Coffee,
  Microwave,
  FolderIcon as Fridge,
  WashingMachine,
  ArrowLeft,
} from "lucide-react"
import { motion } from "framer-motion"

const deviceTypes = [
  { value: "light", label: "Light", icon: Lightbulb },
  { value: "thermostat", label: "Thermostat", icon: Thermometer },
  { value: "fan", label: "Fan", icon: Fan },
  { value: "tv", label: "TV", icon: Tv },
  { value: "lock", label: "Smart Lock", icon: Lock },
  { value: "plug", label: "Smart Plug", icon: Plug },
  { value: "coffee_maker", label: "Coffee Maker", icon: Coffee },
  { value: "microwave", label: "Microwave", icon: Microwave },
  { value: "refrigerator", label: "Refrigerator", icon: Fridge },
  { value: "washing_machine", label: "Washing Machine", icon: WashingMachine },
]

export default function AddDevicePage() {
  const router = useRouter()
  const [deviceName, setDeviceName] = useState("")
  const [deviceType, setDeviceType] = useState("")
```

```

const [room, setRoom] = useState("")

const handleAddDevice = (e: React.FormEvent) => {
  e.preventDefault()

  try{
    const newDevice = {
      id: Date.now().toString(),
      name: deviceName,
      type: deviceType,
      room: room,
      status: "off",
      powerConsumption: getDevicePowerConsumption(deviceType),
      lastStatusChange: Date.now(),
      totalEnergyConsumed: 0,
    }
  }

  const existingDevices = JSON.parse(localStorage.getItem("devices") || "[]")
  const updatedDevices = [...existingDevices, newDevice]
  localStorage.setItem("devices", JSON.stringify(updatedDevices))

  router.push("/devices")
} catch (error) {
  console.error("Failed to add device:", error)
}
}

const getDevicePowerConsumption = (deviceType: string): number => {
  const consumptionMap: { [key: string]: number } = {
    light: 10,
    thermostat: 50,
    fan: 60,
    tv: 100,
    refrigerator: 150,
    washing_machine: 500,
    microwave: 1000,
  }
  return consumptionMap[deviceType] || 50
}

return (
  <div className="p-6 bg-gray-50 min-h-screen">
    <header className="flex justify-between items-center mb-6">
      <div className="flex items-center gap-2">
        <Button variant="ghost" size="icon" onClick={() => router.back()}>
          <ArrowLeft className="h-6 w-6" />
        </Button>
        <div>
          <h1 className="text-2xl font-bold text-gray-800">Add New Device</h1>
          <p className="text-sm text-gray-500">Connect a new smart device to your
          home</p>
        </div>
      </div>
    </header>
  </div>
)

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```

        </div>
    </header>

    <Card className="max-w-2xl mx-auto">
        <CardHeader>
            <CardTitle className="text-[#00B2FF]">Device Information</CardTitle>
        </CardHeader>
        <CardContent>
            <form onSubmit={handleAddDevice} className="space-y-6">
                <div className="space-y-2">
                    <Label htmlFor="name">Device Name</Label>
                    <Input
                        id="name"
                        value={deviceName}
                        onChange={(e) => setDeviceName(e.target.value)}
                        placeholder="Enter device name"
                        required
                    />
                </div>
                <div className="space-y-2">
                    <Label htmlFor="type">Device Type</Label>
                    <Select value={deviceType} onChange={setDeviceType} required>
                        <SelectTrigger className="w-full">
                            <SelectValue placeholder="Select device type" />
                        </SelectTrigger>
                        <SelectContent>
                            {deviceTypes.map((type) => (
                                <SelectItem key={type.value} value={type.value}>
                                    <div className="flex items-center">
                                        <type.icon className="mr-2 h-4 w-4 text-[#00B2FF]" />
                                        {type.label}
                                    </div>
                                </SelectItem>
                            )))
                        </SelectContent>
                    </Select>
                </div>
                <div className="space-y-2">
                    <Label htmlFor="room">Room</Label>
                    <Select value={room} onChange={setRoom} required>
                        <SelectTrigger className="w-full">
                            <SelectValue placeholder="Select room" />
                        </SelectTrigger>
                        <SelectContent>
                            {JSON.parse(localStorage.getItem("rooms") || "[]").map((room: any)
=> (
                            <SelectItem key={room.id} value={room.name}>
                                {room.name}
                            </SelectItem>
                        )))
                    </SelectContent>
                </Select>
            </form>
        </CardContent>
    </Card>

```

```

        </div>
        <div className="flex gap-4">
            <Button type="button" variant="outline" className="flex-1" onClick={() => router.back()}>
                Cancel
            </Button>
            <Button type="submit" className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90">
                <Plus className="mr-2 h-4 w-4" /> Add Device
            </Button>
        </div>
    </form>
</CardContent>
</Card>

<motion.div
    initial={{ opacity: 0, y: 20 }}
    animate={{ opacity: 1, y: 0 }}
    transition={{ delay: 0.2 }}
    className="mt-8 max-w-2xl mx-auto"
>
    <h2 className="text-xl font-semibold mb-4">Compatible Devices</h2>
    <div className="grid grid-cols-2 sm:grid-cols-3 md:grid-cols-4 gap-4">
        {deviceTypes.map((type) => (
            <Card
                key={type.value}
                className="flex flex-col items-center p-4 cursor-pointer hover:shadow-md transition-shadow"
            >
                <type.icon className="h-8 w-8 text-[#00B2FF] mb-2" />
                <p className="text-sm text-center">{type.label}</p>
            </Card>
        )))
    </div>
</motion.div>
</div>
)
}
}

```

## app/add-room/page.tsx

```

// add-room/pages.tsx
"use client";

import type React from "react";

import { useState, useEffect } from "react";
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";

```

```
import { Input } from "@/components/ui/input";
import { Label } from "@/components/ui/label";
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select";
import { User, Upload, Trash2, ArrowLeft, Home } from "lucide-react";
import { useRouter } from "next/navigation";
import Image from "next/image";
import { motion } from "framer-motion";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar

interface Room {
  id: number;
  name: string;
  type: string;
  image: string;
}

export default function AddRoomPage() {
  const router = useRouter();
  const [formData, setFormData] = useState({
    name: "",
    type: "",
    image: "",
  });
  const [rooms, setRooms] = useState<Room[]>([]);

  useEffect(() => {
    const storedRooms = JSON.parse(localStorage.getItem("rooms") || "[]");
    setRooms(storedRooms);
  }, []);

  const handleSubmit = (e: React.FormEvent) => {
    e.preventDefault();
    const newRoom = {
      id: Date.now(),
      ...formData,
    };
    const updatedRooms = [...rooms, newRoom];
    localStorage.setItem("rooms", JSON.stringify(updatedRooms));
    setRooms(updatedRooms);
    setFormData({ name: "", type: "", image: "" });
  };

  const handleDelete = (id: number) => {
    const updatedRooms = rooms.filter((room) => room.id !== id);
    localStorage.setItem("rooms", JSON.stringify(updatedRooms));
    setRooms(updatedRooms);
  };

  const containerVariants = {
    hidden: { opacity: 0 },
  }
}
```

```

    visible: {
      opacity: 1,
      transition: {
        staggerChildren: 0.1,
      },
    },
  };
}

const itemVariants = {
  hidden: { y: 20, opacity: 0 },
  visible: {
    y: 0,
    opacity: 1,
  },
};

return (
  <div className="min-h-screen bg-gray-50 flex">
    <NavigationSidebar /> {/* Add the navbar here */}
    <div className="flex-1 ml-[72px]">
      <motion.div initial="hidden" animate="visible" variants={containerVariants}>
<div>
      <motion.header variants={itemVariants} className="flex justify-between items-center mb-6">
        <div className="flex items-center gap-4">
          <div className="w-10 h-10 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center">
            <span className="text-white font-bold text-xl">Sy</span>
          </div>
          <div>
            <h1 className="text-2xl font-bold text-gray-800">Add New Room</h1>
            <p className="text-sm text-gray-500">Create a new room in your smart home</p>
          </div>
        </div>
      </motion.header>
      <div className="flex items-center gap-2">
        <Button variant="ghost" size="icon" onClick={() => router.back()}>
          <ArrowLeft className="h-6 w-6" />
        </Button>
        <Button variant="ghost" size="icon">
          <User className="h-5 w-5" />
        </Button>
      </div>
    </div>
  </motion.div>
<div className="grid grid-cols-1 lg:grid-cols-2 gap-6">
  <motion.div variants={itemVariants}>
    <Card className="bg-white shadow-lg">
      <CardHeader>
        <CardTitle className="text-2xl font-semibold text-[#00B2FF]">Room Details</CardTitle>
      </CardHeader>

```

```

<CardContent>
  <form onSubmit={handleSubmit} className="space-y-6">
    <div className="space-y-2">
      <Label htmlFor="name" className="text-gray-700">
        Room Name
      </Label>
      <Input
        id="name"
        placeholder="Enter room name"
        value={formData.name}
        onChange={(e) => setFormData({ ...formData, name: e.target.value })}
        required
        className="border-[#00B2FF] focus:ring-[#00B2FF]"
      />
    </div>

    <div className="space-y-2">
      <Label htmlFor="type" className="text-gray-700">
        Room Type
      </Label>
      <Select value={formData.type} onChange={(value) => setFormData({ ...formData, type: value })}>
        <SelectTrigger className="border-[#00B2FF] focus:ring-[#00B2FF]">
          <SelectValue placeholder="Select room type" />
        </SelectTrigger>
        <SelectContent>
          <SelectItem value="living">Living Room</SelectItem>
          <SelectItem value="bedroom">Bedroom</SelectItem>
          <SelectItem value="kitchen">Kitchen</SelectItem>
          <SelectItem value="bathroom">Bathroom</SelectItem>
          <SelectItem value="office">Office</SelectItem>
          <SelectItem value="garage">Garage</SelectItem>
        </SelectContent>
      </Select>
    </div>

    <div className="space-y-2">
      <Label className="text-gray-700">Room Image</Label>
      <div className="border-2 border-dashed border-[#00B2FF] rounded-lg p-8 text-center hover:bg-blue-50 transition-colors">
        <Upload className="w-12 h-12 mx-auto mb-4 text-[#00B2FF]" />
        <div className="space-y-2">
          <p className="text-sm text-gray-600">Drag and drop an image, or click to select</p>
          <Input
            type="file"
            className="hidden"
            accept="image/*"
            onChange={(e) => {
              const file = e.target.files?[0];
            }}
          />
        </div>
      </div>
    </div>
  </form>

```

```

        if (file) {
            const reader = new FileReader();
            reader.onloadend = () => {
                setFormData({ ...formData, image: reader.result as
string });
            };
            reader.readAsDataURL(file);
        }
    }
    />
    <Button
        type="button"
        variant="outline"
        onClick={() =>
document.querySelector('input[type="file"]')?.click()
}
        className="border-[#00B2FF] text-[#00B2FF] hover:bg-[#00B2FF] hover:text-white"
    >
        Select Image
    </Button>
</div>
</div>
</div>

<div className="flex gap-4">
    <Button
        type="button"
        variant="outline"
        className="flex-1 border-[#00B2FF] text-[#00B2FF] hover:bg-[#00B2FF] hover:text-white"
        onClick={() => router.push("/")}>
        Cancel
    </Button>
    <Button type="submit" className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90">
        Add Room
    </Button>
</div>
</form>
</CardContent>
</Card>
</motion.div>

<motion.div variants={itemVariants} className="space-y-4">
    <h2 className="text-xl font-semibold text-gray-800">Current Rooms</h2>
    <motion.div variants={containerVariants} className="grid grid-cols-1
md:grid-cols-2 gap-4">
        {rooms.map((room) => (
            <motion.div key={room.id} variants={itemVariants}>
                <Card className="overflow-hidden hover:shadow-lg transition-
shadow">

```

```

        <div className="relative h-40">
          <Image src={room.image || "/placeholder.svg"} alt=
{room.name} layout="fill" objectFit="cover" />
        </div>
        <CardContent className="p-4">
          <div className="flex items-center justify-between">
            <div>
              <h3 className="font-medium text-lg text-gray-800">
{room.name}</h3>
              <p className="text-sm text-gray-500 capitalize">
{room.type}</p>
            </div>
            <Button variant="ghost" size="icon" onClick={() =>
handleDelete(room.id)}>
              <Trash2 className="h-5 w-5 text-red-500" />
            </Button>
          </div>
        </CardContent>
      </Card>
    </motion.div>
  ))}
</motion.div>
{rooms.length === 0 && (
<motion.div variants={itemVariants}>
  <Card className="p-6 text-center">
    <Home className="w-12 h-12 mx-auto mb-4 text-gray-400" />
    <h3 className="text-lg font-semibold text-gray-700 mb-2">No
rooms added yet</h3>
    <p className="text-gray-500">Start by adding your first room
above</p>
  </Card>
</motion.div>
)
}
</motion.div>
</div>
</motion.div>
</div>
</div>
);
}
}

```

## app/auth/forgot-password/page.tsx

```

// forgot-password/page.tsx
"use client"

import type React from "react"

import { useState, useRef, useEffect } from "react"
import { useRouter } from "next/navigation"

```

```
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import { toast } from "@/components/ui/use-toast"
import { ArrowLeft, Mail, Lock } from "lucide-react"
import Link from "next/link"
import { Card,CardContent,CardDescription,CardFooter,CardHeader,CardTitle } from "@/components/ui/card"

export default function ForgotPasswordPage() {
  const router = useRouter()
  const [step, setStep] = useState(1)
  const [email, setEmail] = useState("")
  const [otp, setOtp] = useState(["", "", "", "", "", "", ""])
  const [newPassword, setNewPassword] = useState("")
  const [confirmPassword, setConfirmPassword] = useState("")
  const otpRefs = useRef<(HTMLInputElement | null>[]>([])

  useEffect(() => {
    otpRefs.current = otpRefs.current.slice(0, 6)
  }, [])

  const handleSendOTP = (e: React.FormEvent) => {
    e.preventDefault()
    toast({
      title: "OTP Sent",
      description: "Please check your email for the OTP.",
    })
    setStep(2)
  }

  const handleVerifyOTP = (e: React.FormEvent) => {
    e.preventDefault()
    if (otp.join("") === "123456") {
      setStep(3)
    } else {
      toast({
        title: "Invalid OTP",
        description: "Please enter the correct OTP.",
        variant: "destructive",
      })
    }
  }

  const handleResetPassword = (e: React.FormEvent) => {
    e.preventDefault()
    if (newPassword !== confirmPassword) {
      toast({
        title: "Passwords do not match",
        description: "Please make sure your passwords match.",
        variant: "destructive",
      })
    }
    return
  }
}
```

```

        }
        toast({
            title: "Password Reset Successful",
            description: "Your password has been reset. Please log in with your new
password.",
        })
        router.push("/auth/login")
    }

    const handleOtpChange = (index: number, value: string) => {
        if (value.length > 1) return
        const newOtp = [...otp]
        newOtp[index] = value
        setOtp(newOtp)
        if (value && index < 5) {
            otpRefs.current[index + 1]?.focus()
        }
    }

    const handleOtpKeyDown = (index: number, e: React.KeyboardEvent<HTMLInputElement>) => {
        if (e.key === "Backspace" && !otp[index] && index > 0) {
            otpRefs.current[index - 1]?.focus()
        }
    }

    return (
        <div className="min-h-screen flex items-center justify-center bg-gray-50 py-12
px-4 sm:px-6 lg:px-8">
        <Card className="w-full max-w-md">
            <CardHeader>
                <div className="flex justify-between items-center mb-4">
                    <Link href="/auth/login" className="text-[#00B2FF] hover:underline flex
items-center">
                        <ArrowLeft className="mr-2 h-4 w-4" />
                        Back to Login
                    </Link>
                    <div className="w-10 h-10 bg-[#00B2FF] rounded-full flex items-center
justify-center">
                        <span className="text-white font-bold text-xl">Sy</span>
                    </div>
                </div>
                <CardTitle className="text-2xl font-bold text-center text-gray-900">Reset
your password</CardTitle>
                <CardDescription className="text-center text-gray-500">
                    {step === 1 && "Enter your email to receive a one-time password"}
                    {step === 2 && "Enter the OTP sent to your email"}
                    {step === 3 && "Create a new password for your account"}
                </CardDescription>
            </CardHeader>
            <CardContent>
                {step === 1 && (

```

```

        <form onSubmit={handleSendOTP} className="space-y-4">
          <div className="relative">
            <Mail className="absolute left-3 top-1/2 -translate-y-1/2 text-gray-400" />
            <Input
              type="email"
              placeholder="Enter your email"
              value={email}
              onChange={(e) => setEmail(e.target.value)}
              className="pl-10 border-gray-300 focus:border-[#00B2FF]
focus:ring-[#00B2FF]" required
            />
          </div>
          <Button type="submit" className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 text-white">
            Send OTP
          </Button>
        </form>
      )}
      {step === 2 && (
        <form onSubmit={handleVerifyOTP} className="space-y-4">
          <div className="flex justify-between gap-2">
            {otp.map((digit, index) => (
              <Input
                key={index}
                type="text"
                inputMode="numeric"
                pattern="[0-9]*"
                maxLength={1}
                className="w-12 h-12 text-center text-2xl border-gray-300
focus:border-[#00B2FF] focus:ring-[#00B2FF]"
                value={digit}
                onChange={(e) => handleOtpChange(index, e.target.value)}
                onKeyDown={(e) => handleOtpKeyDown(index, e)}
                ref={(el) => (otpRefs.current[index] = el)}
              />
            )))
          </div>
          <Button type="submit" className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 text-white">
            Verify OTP
          </Button>
        </form>
      )}
      {step === 3 && (
        <form onSubmit={handleResetPassword} className="space-y-4">
          <div className="relative">
            <Lock className="absolute left-3 top-1/2 -translate-y-1/2 text-gray-400" />
            <Input
              type="password"
            />
          </div>
        </form>
      )}
    
```

```

        placeholder="New Password"
        value={newPassword}
        onChange={(e) => setNewPassword(e.target.value)}
        className="pl-10 border-gray-300 focus:border-[#00B2FF]
focus:ring-[#00B2FF]"
        required
      />
    </div>
    <div className="relative">
      <Lock className="absolute left-3 top-1/2 -translate-y-1/2 text-gray-400" />
      <Input
        type="password"
        placeholder="Confirm New Password"
        value={confirmPassword}
        onChange={(e) => setConfirmPassword(e.target.value)}
        className="pl-10 border-gray-300 focus:border-[#00B2FF]
focus:ring-[#00B2FF]"
        required
      />
    </div>
    <Button type="submit" className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 text-white">
      Reset Password
    </Button>
  </form>
)
</CardContent>
<CardFooter className="text-center">
  <p className="text-sm text-gray-600">
    Remember your password?{" "}
    <Link href="/auth/login" className="text-[#00B2FF] hover:underline">
      Login here
    </Link>
  </p>
</CardFooter>
</Card>
</div>
)
}

```

## app/auth/household-login/page.tsx

```

// household-login/page.tsx
"use client"

import type React from "react"
import Image from "next/image"
import { useState } from "react"

```

```
import { useRouter } from "next/navigation"
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import Link from "next/link"
import { Mail } from "lucide-react"
import { toast } from "@/components/ui/use-toast"

export default function HouseholdLoginPage() {
  const router = useRouter()
  const [formData, setFormData] = useState({
    email: "",
    pin: ["", "", "", ""],
  })

  const handlePinChange = (index: number, value: string) => {
    if (value.length > 1) return
    const newPin = [...formData.pin]
    newPin[index] = value
    setFormData({ ...formData, pin: newPin })

    if (value && index < 3) {
      const nextInput = document.getElementById(`pin-${index + 1}`)
      nextInput?.focus()
    }
  }

  const handleSubmit = (e: React.FormEvent) => {
    e.preventDefault()
    const familyMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    const member = familyMembers.find((m: any) => m.email === formData.email &&
      m.pin === formData.pin.join(""))

    if (member) {
      localStorage.setItem(
        "currentUser",
        JSON.stringify({
          id: member.id,
          type: "household",
          email: member.email,
          name: member.name,
          role: member.role,
          permissions: member.permissions,
        }),
      )
      router.push("/")
    } else {
      toast({
        title: "Login Failed",
        description: "Invalid email or PIN. Please try again.",
        variant: "destructive",
      })
    }
  }
}
```

```

}

return (
  <div className="min-h-screen flex">
    <div className="hidden lg:flex lg:flex-1 relative">
      <Image
        src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-the-modern-kitchen-at-home.jpg?
s=612x612&w=0&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
        alt="Smart Home"
        fill
        className="object-cover"
      />
      <div className="absolute inset-0 bg-black/20" />
      <div className="absolute bottom-20 left-10 text-white">
        <h1 className="text-5xl font-bold mb-4">
          <span className="text-[#00B2FF]">SYNC</span> your Home,
          <br />
          Save energy,
          <br />
          and live smarter.
        </h1>
      </div>
    </div>
  </div>

  <div className="flex-1 flex items-center justify-center p-8">
    <div className="w-full max-w-md">
      <div className="flex justify-end mb-8">
        <div className="flex items-center gap-2">
          <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">
            Sy<span className="text-[#FFB800]">nc</span>
          </span>
        </div>
      </div>
    </div>

    <div className="mb-8">
      <h2 className="text-2xl font-semibold">Welcome,</h2>
      <p className="text-gray-600">Household Member</p>
    </div>

    <form onSubmit={handleSubmit} className="space-y-6">
      <div className="space-y-2">
        <label className="text-sm font-medium">Enter your Email</label>
        <div className="relative">
          <Input
            type="email"
            value={formData.email}
            onChange={(e) => setFormData({ ...formData, email: e.target.value
})}>
          <span className="pl-10" placeholder="Enter your Email">
        </div>
      </div>
    </form>
  </div>
)

```

```

        required
    />
    <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
</div>
</div>

<div className="space-y-2">
    <label className="text-sm font-medium">PIN</label>
    <div className="flex justify-between gap-4">
        {[0, 1, 2, 3].map((i) => (
            <Input
                key={i}
                id={`pin-${i}`}
                type="text"
                inputMode="numeric"
                maxLength={1}
                value={formData.pin[i]}
                onChange={(e) => handlePinChange(i, e.target.value)}
                className="w-16 h-16 text-center text-2xl"
                required
            />
        )))
    </div>
</div>

<Button type="submit" className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg">
    Login
</Button>

<div className="text-center">
    <Link href="/auth/login" className="text-[#00B2FF] hover:underline
text-sm">
        ← Back to Admin Login
    </Link>
</div>
</form>
</div>
</div>
</div>
)
}
}

```

## app/auth/login/page.tsx

```
// login/page.tsx
"use client"
```

```
import Image from "next/image"
import { useState } from "react";
import { useRouter } from "next/navigation";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import Link from "next/link";
import { Eye, EyeOff, Mail } from "lucide-react";
import { toast } from "@/components/ui/use-toast";
import axios from 'axios';
import { useUser } from "@/contexts/UserContext"; // Import the user context

// API base URL with fallback
const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000/api/v1';

export default function LoginPage() {
  const router = useRouter();
  const { login } = useUser(); // Use the login function from context
  const [showPassword, setShowPassword] = useState(false);
  const [formData, setFormData] = useState({ email: "", password: "" });
  const [isLoading, setIsLoading] = useState(false);
  const [isForgotPassword, setIsForgotPassword] = useState(false);
  const [otp, setOtp] = useState("");
  const [newPassword, setNewPassword] = useState("");
  const [verificationEmail, setVerificationEmail] = useState("");

  // Handle login form submission
  const handleSubmit = async (e: React.FormEvent) => {
    e.preventDefault();

    // Validate inputs
    if (!formData.email || !formData.password) {
      toast({
        title: "Missing Information",
        description: "Please enter both email and password",
        variant: "destructive",
      });
      return;
    }

    setIsLoading(true);

    try {
      // Using the correct API endpoint format from the documentation
      const response = await axios.post(`${API_URL}/users/token`,
        new URLSearchParams({
          'username': formData.email, // The API expects 'username' for email
          'password': formData.password
        }),
        {
          headers: {
            'Content-Type': 'application/x-www-form-urlencoded'
          }
        }
      );
    
```

```
        }

    );

    // Extract token and store it
    const { access_token, token_type } = response.data;

    // Use the login function from context to update global state
    login({
        email: formData.email,
        isAuthenticated: true,
        token: access_token
    });

    toast({
        title: "Login Successful",
        description: "Welcome back!",
        variant: "default",
    });

    // Redirect to dashboard
    router.push("/dashboard");
} catch (error) {
    // Handle common error scenarios
    console.error("Login error:", error);

    const errorMessage =
        (error as any).response?.data?.detail ||
        (error as any).message ||
        "Authentication failed. Please check your credentials and try again.";

    toast({
        title: "Login Failed",
        description: errorMessage,
        variant: "destructive",
    });
} finally {
    setIsLoading(false);
}
};

// Handle forgot password request
const handleForgotPassword = async () => {
    if (!formData.email) {
        toast({
            title: "Email Required",
            description: "Please enter your email address",
            variant: "destructive",
        });
        return;
    }

    setIsLoading(true);
}
```

```
try {
    // Store the email for the verification step
    setVerificationEmail(formData.email);

    // Request password reset
    await axios.post(`/${API_URL}/users/request-password-reset`, {
        email: formData.email
    });

    toast({
        title: "Verification Email Sent",
        description: "A confirmation link has been sent to your email",
        variant: "default",
    });

    setIsForgotPassword(true);
} catch (error) {
    const errorMessage =
        (error as any).response?.data?.detail ||
        (error as any).message ||
        "Failed to process your request. The email may not be registered.";

    toast({
        title: "Request Failed",
        description: errorMessage,
        variant: "destructive",
    });
} finally {
    setLoading(false);
}
};

// Handle password reset
const handleResetPassword = async (e: React.FormEvent) => {
    e.preventDefault();

    if (!otp || !newPassword) {
        toast({
            title: "Missing Information",
            description: "Please enter both the verification code and new password",
            variant: "destructive",
        });
        return;
    }

    // Validate password
    const passwordRegex = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@#$%^&()_+=-[\]\{\}:;,.<>?])[A-Za-z\d@#$%^&()_+=-[\]\{\}:;,.<>?]{8,$/;
    if (!passwordRegex.test(newPassword)) {
        toast({
            title: "Invalid Password",

```

```
        description: "Password must be at least 8 characters with uppercase, lowercase, numbers, and special characters.",  
        variant: "destructive",  
    });  
    return;  
}  
  
setIsLoading(true);  
  
try {  
    // Verify the OTP  
    await axios.post(` ${API_URL}/users/verify-reset-code`, {  
        email: verificationEmail || formData.email,  
        code: otp  
    });  
  
    // Update the password  
    await axios.post(` ${API_URL}/users/reset-password`, {  
        email: verificationEmail || formData.email,  
        new_password: newPassword  
    });  
  
    toast({  
        title: "Password Reset Successful",  
        description: "Your password has been updated. You can now log in with your new password.",  
        variant: "default",  
    });  
  
    // Reset form state  
    setIsForgotPassword(false);  
    setOtp("");  
    setNewPassword("");  
    setFormData({ ...formData, password: "" });  
} catch (error) {  
    const errorMessage =  
        (error as any).response?.data?.detail ||  
        (error as any).message ||  
        "Failed to reset password. Please try again or request a new code.";  
  
    toast({  
        title: "Reset Failed",  
        description: errorMessage,  
        variant: "destructive",  
    });  
} finally {  
    setLoading(false);  
}  
};  
  
return (  
<div className="min-h-screen flex">
```

```

<div className="hidden lg:flex lg:flex-1 relative">
  <Image
    src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-
the-modern-kitchen-at-home.jpg?
s=612x612&w=0&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
    alt="Smart Home"
    fill
    className="object-cover"
  />
  <div className="absolute inset-0 bg-black/20" />
  <div className="absolute bottom-20 left-10 text-white">
    <h1 className="text-5xl font-bold mb-4">
      <span className="text-[#00B2FF]">SYNC</span> your Home,
      <br />
      Save energy,
      <br />
      and live smarter.
    </h1>
    <Link href="/auth/signup">
      <Button className="bg-[#FF9500] hover:bg-[#FF9500]/90 text-lg px-8 py-
6">
        Sign Up
      </Button>
    </Link>
  </div>
</div>

<div className="flex-1 flex items-center justify-center p-8">
  <div className="w-full max-w-md">
    <div className="flex justify-end mb-8">
      <div className="flex items-center gap-2">
        <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1
rounded-full">
          Sy<span className="text-[#FFB800]">nc</span>
        </span>
      </div>
    </div>
    <div className="mb-8">
      <h2 className="text-2xl font-semibold">Welcome,</h2>
      <p className="text-gray-600">Smart Home Login</p>
    </div>
  <div>
    {!isForgotPassword ? (
      <form onSubmit={handleSubmit} className="space-y-6">
        <div className="space-y-2">
          <label className="text-sm font-medium">Email</label>
          <div className="relative">
            <Input
              type="email"
              value={formData.email}
              onChange={(e) => setFormData({ ...formData, email:

```

```

e.target.value )}

        className="pl-10"
        placeholder="Enter your email"
        required
    />
<Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
    </div>
</div>

<div className="space-y-2">
    <label className="text-sm font-medium">Password</label>
    <div className="relative">
        <Input
            type={showPassword ? "text" : "password"}
            value={formData.password}
            onChange={(e) => setFormData({ ...formData, password:
e.target.value })}
            className="pr-10"
            placeholder="Enter your password"
            required
        />
        <button
            type="button"
            onClick={() => setShowPassword(!showPassword)}
            className="absolute right-3 top-1/2 -translate-y-1/2"
        >
            {showPassword ? (
                <EyeOff className="h-5 w-5 text-gray-400" />
            ) : (
                <Eye className="h-5 w-5 text-gray-400" />
            )}
        </button>
    </div>
</div>

<div className="flex justify-between items-center">
    <button
        type="button"
        onClick={handleForgotPassword}
        className="text-sm text-[#00B2FF] hover:underline"
    >
        Forgot Password?
    </button>
</div>

<Button
    type="submit"
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    disabled={isLoading}
>
    {isLoading ? 'Logging In...' : 'Login'}

```

```

        </Button>

        <div className="text-center space-y-2">
          <p className="text-sm text-gray-600">
            {"Don't have an account? "}
            <Link href="/auth/signup" className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100">
              Register Now
            </Link>
          </p>
          <div className="flex items-center gap-2 justify-center">
            <p className="text-sm text-gray-600">Part of a Household?</p>
            <Link
              href="/auth/household-login"
              className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100"
            >
              Click Here
            </Link>
          </div>
        </div>
      </form>
    ) : (
      <form onSubmit={handleResetPassword} className="space-y-6">
        <div className="space-y-2">
          <label className="text-sm font-medium">Verification Code</label>
          <Input
            type="text"
            value={otp}
            onChange={(e) => setOtp(e.target.value)}
            placeholder="Enter the verification code"
            required
          />
          <p className="text-xs text-gray-500">
            Enter the code sent to your email
          </p>
        </div>

        <div className="space-y-2">
          <label className="text-sm font-medium">New Password</label>
          <div className="relative">
            <Input
              type={showPassword ? "text" : "password"}
              value={newPassword}
              onChange={(e) => setNewPassword(e.target.value)}
              placeholder="Enter your new password"
              required
            />
            <button
              type="button"
              onClick={() => setShowPassword(!showPassword)}
              className="absolute right-3 top-1/2 -translate-y-1/2"
            >
              {showPassword ? "Hide" : "Show"} Password
            </button>
          </div>
        </div>
      </form>
    )
  )
}

export default ResetPassword

```

```

        >
        {showPassword ? (
            <EyeOff className="h-5 w-5 text-gray-400" />
        ) : (
            <Eye className="h-5 w-5 text-gray-400" />
        )}
    </button>
</div>
<p className="text-xs text-gray-500">
    Password must be at least 8 characters with letters, numbers, and
    special characters.
</p>
</div>

<div className="flex space-x-2">
    <Button
        type="button"
        className="flex-1 bg-gray-200 hover:bg-gray-300 text-gray-800"
        onClick={() => setIsForgotPassword(false)}
    >
        Back to Login
    </Button>
    <Button
        type="submit"
        className="flex-1 bg-[#FF9500] hover:bg-[#FF9500]/90"
        disabled={isLoading}
    >
        {isLoading ? 'Resetting...' : 'Reset Password'}
    </Button>
</div>
</form>
)
</div>
</div>
</div>
);
}

```

## app/auth/login/page.tsx.bak

```

// login/page.tsx
"use client"

import Image from "next/image"
import { useState } from "react";
import { useRouter } from "next/navigation";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import Link from "next/link";
import { Eye, EyeOff, Mail } from "lucide-react";

```

```
import { toast } from "@/components/ui/use-toast";
import axios from 'axios';

const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000';

export default function LoginPage() {
  const router = useRouter();
  const [showPassword, setShowPassword] = useState(false);
  const [formData, setFormData] = useState({ email: "", password: "" });
  const [isLoading, setIsLoading] = useState(false);
  const [isForgotPassword, setIsForgotPassword] = useState(false);
  const [otp, setOtp] = useState("");
  const [newPassword, setNewPassword] = useState("");

  const handleSubmit = async (e: React.FormEvent) => {
    e.preventDefault();

    if (!formData.email || !formData.password) {
      toast({
        title: "Invalid Input",
        description: "Please fill in all fields",
        variant: "destructive",
      });
      return;
    }

    setIsLoading(true);

    try {
      const response = await axios.post(`${API_URL}/login`, formData);
      const userData = response.data;

      localStorage.setItem(
        "currentUser",
        JSON.stringify({
          id: userData.user_id,
          type: "admin",
          email: userData.admin_email,
          name: userData.firstName || "Admin",
          role: "Admin",
          householdId: userData.household_id,
        })
      );
    };

    router.push("/dashboard"); // Update with your dashboard path
  } catch (error) {
    const errorMessage =
      (error as any).response?.data?.detail ||
      (error as any).message ||
      "An error occurred. Please try again.";
    toast({
      title: "Login Failed",
    });
  }
}
```

```
        description: errorMessage,
        variant: "destructive",
    });
} finally {
    setIsLoading(false);
}
};

const handleForgotPassword = async () => {
    if (!formData.email) {
        toast({
            title: "Invalid Input",
            description: "Please enter your email",
            variant: "destructive",
        });
        return;
    }

    try {
        await axios.post(`${API_URL}/request-forgot-password-otp`, { email: formData.email });
        toast({
            title: "OTP Sent",
            description: "An OTP has been sent to your email",
            variant: "success",
        });
        setIsForgotPassword(true);
    } catch (error) {
        const errorMessage =
            (error as any).response?.data?.detail ||
            (error as any).message ||
            "An error occurred. Please try again.";
        toast({
            title: "Request Failed",
            description: errorMessage,
            variant: "destructive",
        });
    }
};

const handleResetPassword = async (e: React.FormEvent) => {
    e.preventDefault();

    if (!otp || !newPassword) {
        toast({
            title: "Invalid Input",
            description: "Please fill in all fields",
            variant: "destructive",
        });
        return;
    }
}
```

```

try {
    // Verify OTP
    await axios.post(`/${API_URL}/verify-forgot-password-otp`, { email: formData.email, otp });

    // Reset Password
    await axios.post(`/${API_URL}/reset-password`, { email: formData.email, password: newPassword });
    toast({
        title: "Password Reset",
        description: "Your password has been reset successfully",
        variant: "success",
    });
    setIsForgotPassword(false);
} catch (error) {
    const errorMessage =
        (error as any).response?.data?.detail ||
        (error as any).message ||
        "An error occurred. Please try again.";
    toast({
        title: "Reset Failed",
        description: errorMessage,
        variant: "destructive",
    });
}
};

return (
    <div className="min-h-screen flex">
        <div className="hidden lg:flex lg:flex-1 relative">
            <Image
                src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-the-modern-kitchen-at-home.jpg?w=612&h=612&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
                alt="Smart Home"
                fill
                className="object-cover"
            />
            <div className="absolute inset-0 bg-black/20" />
            <div className="absolute bottom-20 left-10 text-white">
                <h1 className="text-5xl font-bold mb-4">
                    <span className="text-[#00B2FF]">SYNC</span> your Home,
                    <br />
                    Save energy,
                    <br />
                    and live smarter.
                </h1>
                <Link href="/auth/signup">
                    <Button className="bg-[#FF9500] hover:bg-[#FF9500]/90 text-lg px-8 py-6">
                        Sign Up
                    </Button>
                </Link>
            </div>
        </div>
    </div>
)

```

```

        </Link>
    </div>
</div>

<div className="flex-1 flex items-center justify-center p-8">
    <div className="w-full max-w-md">
        <div className="flex justify-end mb-8">
            <div className="flex items-center gap-2">
                <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">
                    Sy<span className="text-[#FFB800]">nc</span>
                </span>
            </div>
        </div>
    </div>

    <div className="mb-8">
        <h2 className="text-2xl font-semibold">Welcome,</h2>
        <p className="text-gray-600">Admin Login</p>
    </div>

    {!isForgotPassword ? (
        <form onSubmit={handleSubmit} className="space-y-6">
            <div className="space-y-2">
                <label className="text-sm font-medium">Email</label>
                <div className="relative">
                    <Input
                        type="email"
                        value={formData.email}
                        onChange={(e) => setFormData({ ...formData, email: e.target.value })}
                        className="pl-10"
                        placeholder="Enter your email"
                        required
                    />
                    <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5 text-gray-400" />
                </div>
            </div>
        </div>

        <div className="space-y-2">
            <label className="text-sm font-medium">Password</label>
            <div className="relative">
                <Input
                    type={showPassword ? "text" : "password"}
                    value={formData.password}
                    onChange={(e) => setFormData({ ...formData, password: e.target.value })}
                    className="pr-10"
                    placeholder="Enter your password"
                    required
                />
                <button

```

```

        type="button"
        onClick={() => setShowPassword(!showPassword)}
        className="absolute right-3 top-1/2 -translate-y-1/2"
      >
      {showPassword ? (
        <EyeOff className="h-5 w-5 text-gray-400" />
      ) : (
        <Eye className="h-5 w-5 text-gray-400" />
      )}
    </button>
  </div>
</div>

<div className="flex justify-between items-center">
  <button
    type="button"
    onClick={handleForgotPassword}
    className="text-sm text-[#00B2FF] hover:underline"
  >
    Forgot Password?
  </button>
</div>

<Button
  type="submit"
  className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
  disabled={isLoading}
>
  {isLoading ? 'Logging In...' : 'Login'}
</Button>

<div className="text-center space-y-2">
  <p className="text-sm text-gray-600">
    {"Don't have an account? "}
    <Link href="/auth/signup" className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100">
      Register Now
    </Link>
  </p>
  <div className="flex items-center gap-2 justify-center">
    <p className="text-sm text-gray-600">Part of a Household?</p>
    <Link
      href="/auth/household-login"
      className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100"
    >
      Click Here
    </Link>
  </div>
</div>
</form>
) : (

```

```

<form onSubmit={handleResetPassword} className="space-y-6">
  <div className="space-y-2">
    <label className="text-sm font-medium">OTP</label>
    <Input
      type="text"
      value={otp}
      onChange={(e) => setOtp(e.target.value)}
      placeholder="Enter the OTP"
      required
    />
  </div>

  <div className="space-y-2">
    <label className="text-sm font-medium">New Password</label>
    <Input
      type="password"
      value={newPassword}
      onChange={(e) => setNewPassword(e.target.value)}
      placeholder="Enter your new password"
      required
    />
  </div>

  <Button
    type="submit"
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    disabled={isLoading}
  >
    {isLoading ? 'Resetting Password...' : 'Reset Password'}
  </Button>
</form>
)
</div>
</div>
</div>
);
}

```

## app/auth/login/page.tsx.bak.bak

```

// login/page.tsx
"use client"

import Image from "next/image";
import { useState } from "react";
import { useRouter } from "next/navigation";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import Link from "next/link";
import { Eye, EyeOff, Mail } from "lucide-react";

```

```
import { toast } from "@/components/ui/use-toast";
import axios from 'axios';

// API base URL with fallback to localhost
const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000/api/v1';

export default function LoginPage() {
  const router = useRouter();
  const [showPassword, setShowPassword] = useState(false);
  const [formData, setFormData] = useState({ email: "", password: "" });
  const [isLoading, setIsLoading] = useState(false);
  const [isForgotPassword, setIsForgotPassword] = useState(false);
  const [otp, setOtp] = useState("");
  const [newPassword, setNewPassword] = useState("");
  const [verificationEmail, setVerificationEmail] = useState("");

  // Handle login form submission
  const handleSubmit = async (e: React.FormEvent) => {
    e.preventDefault();

    // Validate inputs
    if (!formData.email || !formData.password) {
      toast({
        title: "Missing Information",
        description: "Please enter both email and password",
        variant: "destructive",
      });
      return;
    }

    setIsLoading(true);

    try {
      // Using the correct API endpoint format from the documentation
      const response = await axios.post(`${API_URL}/users/token`,
        new URLSearchParams({
          'username': formData.email, // The API expects 'username' for email
          'password': formData.password
        }),
        {
          headers: {
            'Content-Type': 'application/x-www-form-urlencoded'
          }
        }
      );
    }

    // Extract token and store it
    const { access_token, token_type } = response.data;

    // Get user details using the token
    const userResponse = await axios.get(`${API_URL}/users/me`, {
      headers: {
        'Authorization': `Bearer ${access_token}`
      }
    });

    if (userResponse.data) {
      router.push('/profile');
    }
  }
}
```

```

        'Authorization': `${token_type} ${access_token}`
    }
});

// Store auth token and user information
localStorage.setItem('access_token', access_token);
localStorage.setItem('token_type', token_type);
localStorage.setItem('currentUser', JSON.stringify({
    email: formData.email,
    role: userResponse.data.role || 'user',
    id: userResponse.data.id,
    is_verified: userResponse.data.is_verified
}));

// Redirect to dashboard
toast({
    title: "Login Successful",
    description: "Welcome back!",
    variant: "default",
});
router.push("/dashboard");
} catch (error) {
// Handle common error scenarios
const errorMessage =
    (error as any).response?.data?.detail ||
    (error as any).message ||
    "Authentication failed. Please check your credentials and try again.";

toast({
    title: "Login Failed",
    description: errorMessage,
    variant: "destructive",
});
} finally {
    setIsLoading(false);
}
};

// Handle forgot password request
const handleForgotPassword = async () => {
if (!formData.email) {
    toast({
        title: "Email Required",
        description: "Please enter your email address",
        variant: "destructive",
    });
    return;
}

setIsLoading(true);

```

```
try {
  // Store the email for the verification step
  setVerificationEmail(formData.email);

  // Using the documented password reset flow
  await axios.post(`#${API_URL}/users/request-password-reset`, {
    email: formData.email
  });

  toast({
    title: "Verification Code Sent",
    description: "Please check your email for the verification code",
    variant: "default",
  });

  setIsForgotPassword(true);
} catch (error) {
  const errorMessage =
    (error as any).response?.data?.detail ||
    (error as any).message ||
    "Failed to process your request. The email may not be registered.";

  toast({
    title: "Request Failed",
    description: errorMessage,
    variant: "destructive",
  });
} finally {
  setLoading(false);
}

// Handle password reset
const handleResetPassword = async (e: React.FormEvent) => {
  e.preventDefault();

  if (!otp || !newPassword) {
    toast({
      title: "Missing Information",
      description: "Please enter both the verification code and new password",
      variant: "destructive",
    });
    return;
  }

  setLoading(true);

  try {
    // Verify the OTP
    await axios.post(`#${API_URL}/users/verify-reset-code`, {
      email: verificationEmail || formData.email,
      code: otp
    })
  } catch (error) {
    const errorMessage =
      (error as any).response?.data?.detail ||
      (error as any).message ||
      "Failed to process your request. Please check your internet connection and try again.";
    toast({
      title: "Request Failed",
      description: errorMessage,
      variant: "destructive",
    });
  }
}
```

```

    });

    // Update the password
    await axios.post(`/${API_URL}/users/reset-password`, {
        email: verificationEmail || formData.email,
        new_password: newPassword
    });

    toast({
        title: "Password Reset Successful",
        description: "Your password has been updated. You can now log in with your new password.",
        variant: "default",
    });

    // Reset form state
    setIsForgotPassword(false);
    setOtp("");
    setNewPassword("");
    setFormData({ ...formData, password: "" });
} catch (error) {
    const errorMessage =
        (error as any).response?.data?.detail ||
        (error as any).message ||
        "Failed to reset password. Please try again or request a new code.";

    toast({
        title: "Reset Failed",
        description: errorMessage,
        variant: "destructive",
    });
} finally {
    setIsLoading(false);
}
};

return (
    <div className="min-h-screen flex">
        <div className="hidden lg:flex lg:flex-1 relative">
            <Image
                src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-the-modern-kitchen-at-home.jpg?
s=612x612&w=0&k=20&c=oUTIUAb0__CALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
                alt="Smart Home"
                fill
                className="object-cover"
            />
            <div className="absolute inset-0 bg-black/20" />
            <div className="absolute bottom-20 left-10 text-white">
                <h1 className="text-5xl font-bold mb-4">
                    <span className="text-[#00B2FF]">SYNC</span> your Home,
                    <br />
                </h1>
            </div>
        </div>
    </div>
);

```

```

        Save energy,
        <br />
        and live smarter.
    </h1>
    <Link href="/auth/signup">
        <Button className="bg-[#FF9500] hover:bg-[#FF9500]/90 text-lg px-8 py-6">
            Sign Up
        </Button>
    </Link>
</div>
</div>

<div className="flex-1 flex items-center justify-center p-8">
    <div className="w-full max-w-md">
        <div className="flex justify-end mb-8">
            <div className="flex items-center gap-2">
                <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">
                    Sy<span className="text-[#FFB800]">nc</span>
                </span>
            </div>
        </div>
    </div>

    <div className="mb-8">
        <h2 className="text-2xl font-semibold">Welcome,</h2>
        <p className="text-gray-600">Smart Home Login</p>
    </div>

    {!isForgotPassword ? (
        <form onSubmit={handleSubmit} className="space-y-6">
            <div className="space-y-2">
                <label className="text-sm font-medium">Email</label>
                <div className="relative">
                    <Input
                        type="email"
                        value={formData.email}
                        onChange={(e) => setFormData({ ...formData, email: e.target.value })}>
                        className="pl-10"
                        placeholder="Enter your email"
                        required
                    />
                    <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5 text-gray-400" />
                </div>
            </div>
        </form>
    ) : (
        <div className="space-y-2">
            <label className="text-sm font-medium">Password</label>
            <div className="relative">
                <Input

```

```

        type={showPassword ? "text" : "password"}
        value={formData.password}
        onChange={(e) => setFormData({ ...formData, password:
e.target.value })}

        className="pr-10"
        placeholder="Enter your password"
        required
    />
    <button
        type="button"
        onClick={() => setShowPassword(!showPassword)}
        className="absolute right-3 top-1/2 -translate-y-1/2"
    >
        {showPassword ? (
            <EyeOff className="h-5 w-5 text-gray-400" />
        ) : (
            <Eye className="h-5 w-5 text-gray-400" />
        )}
    </button>
</div>
</div>

<div className="flex justify-between items-center">
    <button
        type="button"
        onClick={handleForgotPassword}
        className="text-sm text-[#00B2FF] hover:underline"
    >
        Forgot Password?
    </button>
</div>

<Button
    type="submit"
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    disabled={isLoading}
>
    {isLoading ? 'Logging In...' : 'Login'}
</Button>

<div className="text-center space-y-2">
    <p className="text-sm text-gray-600">
        {"Don't have an account? "}
        <Link href="/auth/signup" className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100">
            Register Now
        </Link>
    </p>
    <div className="flex items-center gap-2 justify-center">
        <p className="text-sm text-gray-600">Part of a Household?</p>
        <Link
            href="/auth/household-login"

```

```

        className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full
text-sm hover:bg-blue-100"
      >
      Click Here
    </Link>
  </div>
</div>
</form>
) : (
<form onSubmit={handleResetPassword} className="space-y-6">
<div className="space-y-2">
  <label className="text-sm font-medium">Verification Code</label>
  <Input
    type="text"
    value={otp}
    onChange={(e) => setOtp(e.target.value)}
    placeholder="Enter the verification code from your email"
    required
  />
</div>

<div className="space-y-2">
  <label className="text-sm font-medium">New Password</label>
  <div className="relative">
    <Input
      type={showPassword ? "text" : "password"}
      value={newPassword}
      onChange={(e) => setNewPassword(e.target.value)}
      placeholder="Enter your new password"
      required
    />
    <button
      type="button"
      onClick={() => setShowPassword(!showPassword)}
      className="absolute right-3 top-1/2 -translate-y-1/2"
    >
      {showPassword ? (
        <EyeOff className="h-5 w-5 text-gray-400" />
      ) : (
        <Eye className="h-5 w-5 text-gray-400" />
      )}
    </button>
  </div>
  <p className="text-xs text-gray-500">
    Password must be at least 8 characters with letters, numbers, and
    special characters.
  </p>
</div>

<div className="flex space-x-2">
  <Button
    type="button"

```

```

        className="flex-1 bg-gray-200 hover:bg-gray-300 text-gray-800"
        onClick={() => setIsForgotPassword(false)}
      >
      Back to Login
    </Button>
    <Button
      type="submit"
      className="flex-1 bg-[#FF9500] hover:bg-[#FF9500]/90"
      disabled={isLoading}
    >
      {isLoading ? 'Resetting...' : 'Reset Password'}
    </Button>
  </div>
</form>
)
</div>
</div>
</div>
);
}

```

## app/auth/login/page.tsx.bak.bak.bak

```

// login/page.tsx
"use client"

import Image from "next/image"
import { useState } from "react";
import { useRouter } from "next/navigation";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import Link from "next/link";
import { Eye, EyeOff, Mail } from "lucide-react";
import { toast } from "@/components/ui/use-toast";
import axios from 'axios';

// API base URL with fallback
const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000/api/v1';

export default function LoginPage() {
  const router = useRouter();
  const [showPassword, setShowPassword] = useState(false);
  const [formData, setFormData] = useState({ email: "", password: "" });
  const [isLoading, setIsLoading] = useState(false);
  const [isForgotPassword, setIsForgotPassword] = useState(false);
  const [otp, setOtp] = useState("");
  const [newPassword, setNewPassword] = useState("");
  const [verificationEmail, setVerificationEmail] = useState("");

  // Handle login form submission

```

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

  // Validate inputs
  if (!formData.email || !formData.password) {
    toast({
      title: "Missing Information",
      description: "Please enter both email and password",
      variant: "destructive",
    });
    return;
  }

  setIsLoading(true);

  try {
    // Using the correct API endpoint format from the documentation
    const response = await axios.post(`/${API_URL}/users/token`,
      new URLSearchParams({
        'username': formData.email, // The API expects 'username' for email
        'password': formData.password
      }),
      {
        headers: {
          'Content-Type': 'application/x-www-form-urlencoded'
        }
      }
    );

    // Extract token and store it
    const { access_token, token_type } = response.data;

    // Store auth token
    localStorage.setItem('access_token', access_token);
    localStorage.setItem('token_type', token_type);

    // Store basic user info based on the token payload
    // Note: We're not fetching additional user data here
    localStorage.setItem('currentUser', JSON.stringify({
      email: formData.email,
      isAuthenticated: true,
      token: access_token
    }));

    toast({
      title: "Login Successful",
      description: "Welcome back!",
      variant: "default",
    });

    // Redirect to dashboard
    router.push("/dashboard");
  }
}
```

```
    } catch (error) {
      // Handle error...
    } finally {
      setLoading(false);
    }
};

// Handle forgot password request
const handleForgotPassword = async () => {
  if (!formData.email) {
    toast({
      title: "Email Required",
      description: "Please enter your email address",
      variant: "destructive",
    });
    return;
  }

  setLoading(true);

  try {
    // Store the email for the verification step
    setVerificationEmail(formData.email);

    // Request password reset
    await axios.post(`${API_URL}/users/request-password-reset`, {
      email: formData.email
    });

    toast({
      title: "Verification Email Sent",
      description: "A confirmation link has been sent to your email",
      variant: "default",
    });

    setIsForgotPassword(true);
  } catch (error) {
    const errorMessage =
      (error as any).response?.data?.detail ||
      (error as any).message ||
      "Failed to process your request. The email may not be registered.";

    toast({
      title: "Request Failed",
      description: errorMessage,
      variant: "destructive",
    });
  } finally {
    setLoading(false);
  }
};
```

```
// Handle password reset
const handleResetPassword = async (e: React.FormEvent) => {
  e.preventDefault();

  if (!otp || !newPassword) {
    toast({
      title: "Missing Information",
      description: "Please enter both the verification code and new password",
      variant: "destructive",
    });
    return;
  }

  // Validate password
  const passwordRegex = /^[?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@#$%^&()_+=-[\]\{}|;':,.<>?/])[A-Za-z\d!@#$%^&()_+=-[\]\{}|;':,.<>?/]{8,}$/;
  if (!passwordRegex.test(newPassword)) {
    toast({
      title: "Invalid Password",
      description: "Password must be at least 8 characters with uppercase, lowercase, numbers, and special characters.",
      variant: "destructive",
    });
    return;
  }

  setIsLoading(true);

  try {
    // Verify the OTP
    await axios.post(`${API_URL}/users/verify-reset-code`, {
      email: verificationEmail || formData.email,
      code: otp
    });

    // Update the password
    await axios.post(`${API_URL}/users/reset-password`, {
      email: verificationEmail || formData.email,
      new_password: newPassword
    });

    toast({
      title: "Password Reset Successful",
      description: "Your password has been updated. You can now log in with your new password.",
      variant: "default",
    });

    // Reset form state
    setIsForgotPassword(false);
    setOtp("");
    setNewPassword("");
  } catch (error) {
    console.error(error);
    toast({
      title: "Error",
      description: "There was an error resetting your password. Please try again later.",
      variant: "error",
    });
  }
}
```

```

        setFormData({ ...formData, password: "" });
    } catch (error) {
        const errorMessage =
            (error as any).response?.data?.detail ||
            (error as any).message ||
            "Failed to reset password. Please try again or request a new code.";

        toast({
            title: "Reset Failed",
            description: errorMessage,
            variant: "destructive",
        });
    } finally {
        setIsLoading(false);
    }
};

return (
    <div className="min-h-screen flex">
        <div className="hidden lg:flex lg:flex-1 relative">
            <Image
                src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-the-modern-kitchen-at-home.jpg?w=612&h=612&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
                alt="Smart Home"
                fill
                className="object-cover"
            />
            <div className="absolute inset-0 bg-black/20" />
            <div className="absolute bottom-20 left-10 text-white">
                <h1 className="text-5xl font-bold mb-4">
                    <span className="text-[#00B2FF]">SYNC</span> your Home,
                    <br />
                    Save energy,
                    <br />
                    and live smarter.
                </h1>
                <Link href="/auth/signup">
                    <Button className="bg-[#FF9500] hover:bg-[#FF9500]/90 text-lg px-8 py-6">
                        Sign Up
                    </Button>
                </Link>
            </div>
        </div>
    </div>

    <div className="flex-1 flex items-center justify-center p-8">
        <div className="w-full max-w-md">
            <div className="flex justify-end mb-8">
                <div className="flex items-center gap-2">
                    <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">

```

```

        Sy<span className="text-[#FFB800]">nc</span>
      </span>
    </div>
  </div>

  <div className="mb-8">
    <h2 className="text-2xl font-semibold">Welcome,</h2>
    <p className="text-gray-600">Smart Home Login</p>
  </div>

  {!isForgotPassword ? (
    <form onSubmit={handleSubmit} className="space-y-6">
      <div className="space-y-2">
        <label className="text-sm font-medium">Email</label>
        <div className="relative">
          <Input
            type="email"
            value={formData.email}
            onChange={(e) => setFormData({ ...formData, email:
e.target.value })}
            className="pl-10"
            placeholder="Enter your email"
            required
          />
          <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
        </div>
      </div>
    </div>

    <div className="space-y-2">
      <label className="text-sm font-medium">Password</label>
      <div className="relative">
        <Input
          type={showPassword ? "text" : "password"}
          value={formData.password}
          onChange={(e) => setFormData({ ...formData, password:
e.target.value })}
          className="pr-10"
          placeholder="Enter your password"
          required
        />
        <button
          type="button"
          onClick={() => setShowPassword(!showPassword)}
          className="absolute right-3 top-1/2 -translate-y-1/2"
        >
          {showPassword ? (
            <EyeOff className="h-5 w-5 text-gray-400" />
          ) : (
            <Eye className="h-5 w-5 text-gray-400" />
          )}
        </button>
      </div>
    </div>
  ) : (
    <div>
      <h1>Smart Home Login</h1>
      <div>
        <h2>Welcome, John!</h2>
        <p>You are logged in successfully.</p>
        <button>Logout</button>
      </div>
    </div>
  )
)
</div>

```

```

        </div>
    </div>

    <div className="flex justify-between items-center">
        <button
            type="button"
            onClick={handleForgotPassword}
            className="text-sm text-[#00B2FF] hover:underline"
        >
            Forgot Password?
        </button>
    </div>

    <Button
        type="submit"
        className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
        disabled={isLoading}
    >
        {isLoading ? 'Logging In...' : 'Login'}
    </Button>

    <div className="text-center space-y-2">
        <p className="text-sm text-gray-600">
            {"Don't have an account? "}
            <Link href="/auth/signup" className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100">
                Register Now
            </Link>
        </p>
        <div className="flex items-center gap-2 justify-center">
            <p className="text-sm text-gray-600">Part of a Household?</p>
            <Link
                href="/auth/household-login"
                className="text-[#00B2FF] bg-blue-50 px-3 py-1 rounded-full text-sm hover:bg-blue-100"
            >
                Click Here
            </Link>
        </div>
    </div>
</form>
) : (
<form onSubmit={handleResetPassword} className="space-y-6">
    <div className="space-y-2">
        <label className="text-sm font-medium">Verification Code</label>
        <Input
            type="text"
            value={otp}
            onChange={(e) => setOtp(e.target.value)}
            placeholder="Enter the verification code"
            required
        />
    </div>
</form>
)

```

```

<p className="text-xs text-gray-500">
  Enter the code sent to your email
</p>
</div>

<div className="space-y-2">
  <label className="text-sm font-medium">New Password</label>
  <div className="relative">
    <Input
      type={showPassword ? "text" : "password"}
      value={newPassword}
      onChange={(e) => setNewPassword(e.target.value)}
      placeholder="Enter your new password"
      required
    />
    <button
      type="button"
      onClick={() => setShowPassword(!showPassword)}
      className="absolute right-3 top-1/2 -translate-y-1/2"
    >
      {showPassword ? (
        <EyeOff className="h-5 w-5 text-gray-400" />
      ) : (
        <Eye className="h-5 w-5 text-gray-400" />
      )}
    </button>
  </div>
  <p className="text-xs text-gray-500">
    Password must be at least 8 characters with letters, numbers, and
    special characters.
  </p>
</div>

<div className="flex space-x-2">
  <Button
    type="button"
    className="flex-1 bg-gray-200 hover:bg-gray-300 text-gray-800"
    onClick={() => setIsForgotPassword(false)}
  >
    Back to Login
  </Button>
  <Button
    type="submit"
    className="flex-1 bg-[#FF9500] hover:bg-[#FF9500]/90"
    disabled={isLoading}
  >
    {isLoading ? 'Resetting...' : 'Reset Password'}
  </Button>
</div>
</form>
)
</div>

```

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

## app/auth/signup/page.tsx

```
// signup/page.tsx
"use client"
import Image from "next/image"
import { useState, useEffect } from "react"
import { useRouter } from "next/navigation"
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import Link from "next/link"
import { Eye, EyeOff, Mail, User, MapPin, ArrowLeft } from "lucide-react"
import { useToast } from "@/components/ui/use-toast"
import { RadioGroup, RadioGroupItem } from "@/components/ui/radio-group"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import axios from "axios"
import PhoneInput from "react-phone-input-2"
import "react-phone-input-2/lib/style.css"
import { getNames, getCode } from "country-list"

// Base API URL with fallback
const API_URL = process.env.NEXT_PUBLIC_API_URL || "http://localhost:8000/api/v1"

export default function SignupPage() {
    const { toast } = useToast()
    const router = useRouter()
    const [step, setStep] = useState(1)
    const [showPassword, setShowPassword] = useState(false)
    const [showConfirmPassword, setShowConfirmPassword] = useState(false)
    const [verificationCode, setVerificationCode] = useState(["", "", "", "", "", "", ""])
    const [countries, setCountries] = useState([])
    const [cities, setCities] = useState([])
    const [loadingCities, setLoadingCities] = useState(false)
    const [isLoading, setIsLoading] = useState(false)
    const [formData, setFormData] = useState({
        email: "",
        password: "",
        confirmPassword: "",
        firstName: "",
        lastName: "",
        phoneNumber: "",
        gender: "",
        birthDay: "",
        birthMonth: ""
    })
}
```

```

        birthYear: "",
        country: "",
        city: "",
        address: "",
    })
}

const dayOptions = Array.from({ length: 31 }, (_, i) => ({
    value: String(i + 1),
    label: i + 1
})) 

const monthOptions = Array.from({ length: 12 }, (_, i) => ({
    value: String(i + 1),
    label: i + 1
})) 

const currentYear = new Date().getFullYear()
const yearOptions = Array.from({ length: 100 }, (_, i) => ({
    value: String(currentYear - i),
    label: currentYear - i
})) 

useEffect(() => {
    const countryNames = getNames()
    const countryOptions = countryNames.map((name) => ({
        value: getCode(name),
        label: name
    }))
    setCountries(countryOptions.sort((a, b) => a.label.localeCompare(b.label)))
}, [])

useEffect(() => {
    const fetchCities = async () => {
        if (formData.country) {
            setLoadingCities(true)
            try {
                const response = await axios.get(
                    `https://api.geonames.org/searchJSON?
country=${formData.country}&featureClass=P&maxRows=100&population=100000&username=demo
                )
                const cityOptions = response.data.geonames
                    .map((city) => ({
                        value: city.name,
                        label: city.name
                    }))
                    .sort((a, b) => a.label.localeCompare(b.label))
                setCities(cityOptions)
            } catch (error) {
                console.error("Error fetching cities:", error)
                toast({
                    title: "Error",
                    description: "Failed to fetch cities. Please try again.",
                })
            }
        }
    }
})

```

```

        variant: "destructive"
    })
    // Fallback to empty array if API fails
    setCities([])
}
setLoadingCities(false)
}
}

if (formData.country) {
    fetchCities()
}
}, [formData.country, toast])

const handleVerificationCodeChange = (index, value) => {
// Only accept digits
if (!/\d*$/ .test(value) && value !== "") return

// Limit to one character per input
if (value.length > 1) return

const newCode = [...verificationCode]
newCode[index] = value
setVerificationCode(newCode)

// Auto-focus next input when a digit is entered
if (value && index < 5) {
    const nextInput = document.getElementById(`code-${index + 1}`)
    nextInput?.focus()
}
}

const validatePassword = (password) => {
// Match the backend password validation requirements
if (password.length < 8) return "Password must be at least 8 characters long."
if (!/\d/.test(password)) return "Password must contain at least 1 number."
if (!/[a-z]/ .test(password)) return "Password must contain at least 1 lowercase letter."
if (!/[A-Z]/ .test(password)) return "Password must contain at least 1 uppercase letter."
if (!/[!@#$%^&*()_+=\[\]\{\};':,.>?]/ .test(password)) return "Password must contain at least 1 special character."
return null
}

const handleRegister = async () => {
// Validate email
if (!formData.email || !/\S+@\S+\.\S+/.test(formData.email)) {
    toast({
        title: "Invalid Email",
        description: "Please enter a valid email address.",
        variant: "destructive"
    })
}
}

```

```
        })
        return
    }

    // Validate password
    const passwordError = validatePassword(formData.password)
    if (passwordError) {
        toast({
            title: "Invalid Password",
            description: passwordError,
            variant: "destructive"
        })
        return
    }

    // Check if passwords match
    if (formData.password !== formData.confirmPassword) {
        toast({
            title: "Passwords Don't Match",
            description: "Please ensure that your passwords match.",
            variant: "destructive"
        })
        return
    }

    setIsLoading(true)

    try {
        // Register the new user using the FastAPI endpoint
        await axios.post(`.${API_URL}/users/register`, {
            email: formData.email,
            password: formData.password,
            role: "user" // Default role is user
        })

        toast({
            title: "Registration Initiated",
            description: "A confirmation link has been sent to your email.",
        })

        setStep(2)
    } catch (error) {
        const errorMessage = error.response?.data?.detail || "Registration failed.
Please try again."
        toast({
            title: "Registration Failed",
            description: errorMessage,
            variant: "destructive"
        })
    } finally {
        setLoading(false)
    }
}
```

```
}

const handleVerifyOtp = async () => {
  const otp = verificationCode.join("")

  // Validate OTP format
  if (otp.length !== 6 || !/\d+/.test(otp)) {
    toast({
      title: "Invalid Code",
      description: "Please enter a valid 6-digit verification code.",
      variant: "destructive"
    })
    return
  }

  setIsLoading(true)

  try {
    // Verify email using the backend endpoint
    await axios.post(`${API_URL}/users/verify`, {
      email: formData.email,
      code: otp
    })

    toast({
      title: "Email Verified",
      description: "Your email has been successfully verified.",
    })
    setStep(3)
  } catch (error) {
    const errorMessage = error.response?.data?.detail || "Verification failed.
Please check the code and try again."
    toast({
      title: "Verification Failed",
      description: errorMessage,
      variant: "destructive"
    })
  } finally {
    setIsLoading(false)
  }
}

const handleResendOtp = async () => {
  setIsLoading(true)

  try {
    // Request a new verification email from the backend
    await axios.post(`${API_URL}/users/resend-verification`, {
      email: formData.email
    })
  }
```

```

        toast({
          title: "Verification Email Resent",
          description: "A new confirmation link has been sent to your email.",
        })
      } catch (error) {
        const errorMessage = error.response?.data?.detail || "Failed to resend verification email. Please try again."
        toast({
          title: "Request Failed",
          description: errorMessage,
          variant: "destructive"
        })
      } finally {
        setIsLoading(false)
      }
    }

const validateBirthdate = () => {
  const dayNum = parseInt(formData.birthDay, 10)
  const monthNum = parseInt(formData.birthMonth, 10)
  const yearNum = parseInt(formData.birthYear, 10)
  const currentDate = new Date()
  const currentYear = currentDate.getFullYear()

  const errors = {}

  if (isNaN(dayNum) || dayNum < 1 || dayNum > 31) {
    errors.day = "Day must be between 1 and 31"
  }

  if (isNaN(monthNum) || monthNum < 1 || monthNum > 12) {
    errors.month = "Month must be between 1 and 12"
  }

  if (yearNum > currentYear) {
    errors.year = "Year cannot be in the future"
  } else if (yearNum < 1900) {
    errors.year = "Year must be after 1900"
  }

  // Calculate age
  const birthDate = new Date(yearNum, monthNum - 1, dayNum)
  const ageDate = new Date(Date.now() - birthDate.getTime())
  const age = Math.abs(ageDate.getUTCFullYear() - 1970)

  if (age < 18) {
    errors.age = "You must be at least 18 years old"
  }

  return errors
}

```

```

const handleNextToStep5 = () => {
  // Validate required fields
  if (!formData.gender) {
    toast({
      title: "Gender Required",
      description: "Please select your gender.",
      variant: "destructive"
    })
    return
  }

  // Validate birthdate
  const errors = validateBirthdate()
  if (Object.keys(errors).length > 0) {
    Object.entries(errors).forEach(([key, message]) => {
      toast({
        title: `${key.charAt(0).toUpperCase() + key.slice(1)} Error`,
        description: message,
        variant: "destructive"
      })
    })
    return
  }

  setStep(5)
}

const handleCompleteRegistration = async () => {
  // Validate required location fields
  if (!formData.country || !formData.city || !formData.address.trim()) {
    toast({
      title: "Missing Information",
      description: "Please fill in all location fields.",
      variant: "destructive"
    })
    return
  }

  setIsLoading(true)

  try {
    // Create a complete profile by updating the user's profile
    const profileData = {
      user_id: formData.email, // Use email as identifier
      name: `${formData.firstName} ${formData.lastName}`,
      age: String(currentYear - parseInt(formData.birthYear)),
      profile_type: "adult", // Default profile type
      accessibility_settings: {
        preferred_language: "english",
        text_size: "normal",
      },
      can_control_devices: true,
    }
  }
}

```

```

        can_access_energy_data: true,
        can_manage_notifications: true,
        additional_info: {
          first_name: formData.firstName,
          last_name: formData.lastName,
          phone_number: formData.phoneNumber,
          gender: formData.gender,
          birthdate: {
            day: formData.birthDay,
            month: formData.birthMonth,
            year: formData.birthYear
          },
          address: {
            country: formData.country,
            city: formData.city,
            street_address: formData.address
          }
        }
      }

    // Create user profile
    await axios.post(` ${API_URL}/profiles/create`, profileData)

    toast({
      title: "Registration Complete",
      description: "Your account has been created successfully!",
    })

    // Redirect to login page
    router.push("/auth/login")
  } catch (error) {
    const errorMessage = error.response?.data?.detail || "Failed to complete registration. Please try again."
    toast({
      title: "Registration Failed",
      description: errorMessage,
      variant: "destructive"
    })
  } finally {
    setIsLoading(false)
  }
}

const renderStep = () => {
  switch (step) {
    case 1:
      return (
        <div className="space-y-6">
          <div className="space-y-2">
            <Label>Enter your Email</Label>
            <div className="relative">
              <Input

```

```

        type="email"
        value={formData.email}
        onChange={(e) => setFormData({ ...formData, email: e.target.value
})}

        className="pl-10"
        placeholder="Enter your Email"
        required
    />
    <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
</div>
</div>

<div className="space-y-2">
<Label>Password</Label>
<div className="relative">
<Input
    type={showPassword ? "text" : "password"}
    value={formData.password}
    onChange={(e) => setFormData({ ...formData, password:
e.target.value })}
    className="pr-10"
    placeholder="Enter your password"
    required
/>
<button
    type="button"
    onClick={() => setShowPassword(!showPassword)}
    className="absolute right-3 top-1/2 -translate-y-1/2"
>
    {showPassword ? (
        <EyeOff className="h-5 w-5 text-gray-400" />
    ) : (
        <Eye className="h-5 w-5 text-gray-400" />
    )}
</button>
</div>
<p className="text-xs text-gray-500">
    Password must be at least 8 characters with uppercase, lowercase,
numbers, and special characters.
</p>
</div>

<div className="space-y-2">
<Label>Confirm Password</Label>
<div className="relative">
<Input
    type={showConfirmPassword ? "text" : "password"}
    value={formData.confirmPassword}
    onChange={(e) => setFormData({ ...formData, confirmPassword:
e.target.value })}
    className="pr-10"

```

```

        placeholder="Confirm your password"
        required
    />
    <button
        type="button"
        onClick={() => setShowConfirmPassword(!showConfirmPassword)}
        className="absolute right-3 top-1/2 -translate-y-1/2"
    >
        {showConfirmPassword ? (
            <EyeOff className="h-5 w-5 text-gray-400" />
        ) : (
            <Eye className="h-5 w-5 text-gray-400" />
        )}
    </button>
</div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={handleRegister}
    disabled={isLoading}
>
    {isLoading ? "Processing..." : "Next"}
</Button>
</div>
)

case 2:
return (
<div className="space-y-6">
    <h3 className="text-lg font-semibold">Verify Your Email</h3>
    <p className="text-sm text-gray-500">We've sent a confirmation link to
{formData.email}</p>

    <div className="bg-blue-50 p-4 rounded-md border border-blue-200">
        <p className="text-sm text-blue-800">
            Please check your inbox and click the verification link to confirm
            your email address.
            This step is required to activate your account.
        </p>
    </div>

    <div className="bg-gray-50 p-4 rounded-md">
        <h4 className="text-sm font-medium mb-2">Can't find the email?</h4>
        <ul className="text-xs text-gray-600 space-y-1">
            <li>• Check your spam or junk folder</li>
            <li>• Make sure you entered the correct email address</li>
            <li>• Allow a few minutes for the email to arrive</li>
        </ul>
    </div>

    <p className="text-sm text-center">

```

```

        Didn't receive the email?{" "}
      <button
        className="text-[#00B2FF] hover:underline"
        onClick={handleResendOtp}
        disabled={isLoading}
      >
        Resend verification email
      </button>
    </p>

    <Button
      className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
      onClick={() => {
        toast({
          title: "Please Verify Your Email",
          description: "You need to click the link in your email before
continuing.",
          variant: "destructive"
        });
      }}
    >
      I've Verified My Email
    </Button>
  </div>
)

case 3:
return (
<div className="space-y-6">
  <h3 className="text-lg font-semibold">Personal Details</h3>
  <p className="text-sm text-gray-500">Fill in your personal
information</p>

  <div className="space-y-4">
    <div className="space-y-2">
      <Label>First Name</Label>
      <div className="relative">
        <Input
          value={formData.firstName}
          onChange={(e) => setFormData({ ...formData, firstName:
e.target.value })}
          placeholder="Enter your First Name"
          className="pl-10"
          required
        />
        <User className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
      </div>
    </div>
  </div>

  <div className="space-y-2">
    <Label>Last Name</Label>

```

```

        <div className="relative">
          <Input
            value={formData.lastName}
            onChange={(e) => setFormData({ ...formData, lastName: e.target.value })}
            placeholder="Enter your Last Name"
            className="pl-10"
            required
          />
          <User className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5 text-gray-400" />
        </div>
      </div>

      <div className="space-y-2">
        <Label>Phone Number</Label>
        <PhoneInput
          country={"us"}
          value={formData.phoneNumber}
          onChange={(phone) => setFormData({ ...formData, phoneNumber: phone })}
          inputClass="!w-full !py-2 !px-3 !text-base !h-10 !rounded-md !border-input"
          containerClass="!w-full"
          buttonClass="!border-input !bg-background !rounded-l-md !h-10 !w-12"
          dropdownClass="!bg-background !text-foreground"
          searchClass="!bg-background !text-foreground"
        />
      </div>
    </div>

    <Button
      className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
      onClick={() => setStep(4)}
      disabled={!formData.firstName || !formData.lastName || !formData.phoneNumber}
    >
      Next
    </Button>
  </div>
)

case 4:
  return (
    <div className="space-y-6">
      <h3 className="text-lg font-semibold">Additional Details</h3>
      <p className="text-sm text-gray-500">Please provide your gender and birthdate</p>

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

```

```

<Label>Gender</Label>
<RadioGroup
  value={formData.gender}
  onValueChange={(value) => setFormData({ ...formData, gender: value
})}>
  className="flex gap-4"
>
  <div className="flex items-center space-x-2">
    <RadioGroupItem value="male" id="male" />
    <Label htmlFor="male">Male</Label>
  </div>
  <div className="flex items-center space-x-2">
    <RadioGroupItem value="female" id="female" />
    <Label htmlFor="female">Female</Label>
  </div>
  <div className="flex items-center space-x-2">
    <RadioGroupItem value="other" id="other" />
    <Label htmlFor="other">Other</Label>
  </div>
</RadioGroup>
</div>

<div className="space-y-2">
  <Label>Birthdate</Label>
  <div className="flex gap-4">
    <Select
      value={formData.birthDay}
      onValueChange={(value) => setFormData({ ...formData, birthDay:
value })}>
      <SelectTrigger>
        <SelectValue placeholder="Day" />
      </SelectTrigger>
      <SelectContent>
        {dayOptions.map((option) => (
          <SelectItem key={option.value} value={option.value}>
            {option.label}
          </SelectItem>
        )))
      </SelectContent>
    </Select>
    <Select
      value={formData.birthMonth}
      onValueChange={(value) => setFormData({ ...formData, birthMonth:
value })}>
      <SelectTrigger>
        <SelectValue placeholder="Month" />
      </SelectTrigger>
      <SelectContent>
        {monthOptions.map((option) => (
          <SelectItem key={option.value} value={option.value}>

```

```

                {option.label}
            </SelectItem>
        ))}
    </SelectContent>
</Select>
<Select
    value={formData.birthYear}
    onChange={(value) => setFormData({ ...formData, birthYear: value })}>
    <SelectTrigger>
        <SelectValue placeholder="Year" />
    </SelectTrigger>
    <SelectContent>
        {yearOptions.map((option) => (
            <SelectItem key={option.value} value={option.value}>
                {option.label}
            </SelectItem>
        )))
    </SelectContent>
</Select>
</div>
</div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={handleNextToStep5}
>
    Next
</Button>
</div>
)
}

case 5:
return (
<div className="space-y-6">
    <h3 className="text-lg font-semibold">Location Details</h3>
    <p className="text-sm text-gray-500">Fill in your location
information</p>

    <div className="space-y-4">
        <div className="space-y-2">
            <Label>Country</Label>
            <Select
                value={formData.country}
                onChange={(value) => setFormData({ ...formData, country: value, city: "" })}>
                <SelectTrigger>
                    <SelectValue placeholder="Choose your country" />
                </SelectTrigger>

```

```

<SelectContent>
  {countries.map((country) => (
    <SelectItem key={country.value} value={country.value}>
      {country.label}
    </SelectItem>
  )))
</SelectContent>
</Select>
</div>

<div className="space-y-2">
  <Label>City</Label>
  {loadingCities ? (
    <div className="h-10 flex items-center justify-center bg-muted rounded-md">
      <p className="text-sm text-muted-foreground">Loading cities...
    </p>
  ) : (
    cities.length > 0 ? (
      <Select
        value={formData.city}
        onChange={(value) => setFormData({ ...formData, city: value })}>
        disabled={!formData.country}
      >
        <SelectTrigger>
          <SelectValue placeholder="Choose your city" />
        </SelectTrigger>
        <SelectContent>
          {cities.map((city) => (
            <SelectItem key={city.value} value={city.value}>
              {city.label}
            </SelectItem>
          )))
        </SelectContent>
      </Select>
    ) : (
      <Input
        value={formData.city}
        onChange={(e) => setFormData({ ...formData, city: e.target.value })}>
        placeholder="Enter your city"
        disabled={!formData.country}
      />
    )
  )
</div>

<div className="space-y-2">
  <Label>Address</Label>
  <div className="relative">

```

```

        <Input
            value={formData.address}
            onChange={(e) => setFormData({ ...formData, address:
e.target.value })}
            placeholder="Enter your address"
            className="pl-10"
        />
        <MapPin className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-
5 text-gray-400" />
    </div>
</div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={handleCompleteRegistration}
    disabled={isLoading}
>
    {isLoading ? "Completing Registration..." : "Complete Registration"}
</Button>
</div>
)

default:
    return null
}

const handleBack = () => {
    if (step > 1) {
        setStep(step - 1)
    }
}

return (
<div className="min-h-screen flex">
    <div className="hidden lg:flex lg:flex-1 relative">
        <Image
            src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-
the-modern-kitchen-at-home.jpg?
s=612x612&w=0&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
            alt="Smart Home"
            fill
            className="object-cover"
        />
        <div className="absolute inset-0 bg-black/20" />
        <div className="absolute bottom-20 left-10 text-white">
            <h1 className="text-5xl font-bold mb-4">
                <span className="text-[#00B2FF]">SYNC</span> your Home,
                <br />
                Save energy,
                <br />

```

```

        and live smarter.

    </h1>
</div>
</div>

<div className="flex-1 flex items-center justify-center p-8">
  <div className="w-full max-w-md">
    <div className="flex justify-between items-center mb-8">
      {step > 1 && (
        <button
          onClick={handleBack}
          className="text-[#00B2FF] hover:underline flex items-center"
          disabled={isLoading}
        >
          <ArrowLeft className="mr-2" size={16} />
          Back
        </button>
      )}
      <div className="flex items-center gap-2 ml-auto">
        <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">
          Sy<span className="text-[#FFB800]">nc</span>
        </span>
      </div>
    </div>
  </div>

  {renderStep()}

  {step === 1 && (
    <div className="mt-6 text-center">
      <p className="text-sm text-gray-600">
        Already have an account?{" "}
        <Link href="/auth/login" className="text-[#00B2FF] hover:underline">
          Login Here
        </Link>
      </p>
    </div>
  )}
  </div>
</div>
</div>
)
}
}

```

## app/auth/signup/page.tsx.bak

```

// signup/page.tsx
"use client"
import Image from "next/image"
import { useState, useEffect } from "react"

```

```
import { useRouter } from "next/navigation"
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import Link from "next/link"
import { Eye, EyeOff, Mail, User, MapPin, ArrowLeft } from "lucide-react"
import { useToast } from "@/components/ui/use-toast"
import { RadioGroup, RadioGroupItem } from "@/components/ui/radio-group"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import axios from "axios"
import PhoneInput from "react-phone-input-2"
import "react-phone-input-2/lib/style.css"
import { getNames, getCode } from "country-list"

// Base API URL with fallback
const API_URL = process.env.NEXT_PUBLIC_API_URL || "http://localhost:8000/api/v1"

export default function SignupPage() {
  const { toast } = useToast()
  const router = useRouter()
  const [step, setStep] = useState(1)
  const [showPassword, setShowPassword] = useState(false)
  const [showConfirmPassword, setShowConfirmPassword] = useState(false)
  const [verificationCode, setVerificationCode] = useState(["", "", "", "", "", "", ""])
  const [countries, setCountries] = useState([])
  const [cities, setCities] = useState([])
  const [loadingCities, setLoadingCities] = useState(false)
  const [isLoading, setIsLoading] = useState(false)
  const [formData, setFormData] = useState({
    email: "",
    password: "",
    confirmPassword: "",
    firstName: "",
    lastName: "",
    phoneNumber: "",
    gender: "",
    birthDay: "",
    birthMonth: "",
    birthYear: "",
    country: "",
    city: "",
    address: ""
  })
}

const dayOptions = Array.from({ length: 31 }, (_, i) => ({
  value: String(i + 1),
  label: i + 1
}))

const monthOptions = Array.from({ length: 12 }, (_, i) => ({
  value: String(i + 1),
  label: i + 1
}))
```

```

    label: i + 1
  )))

const currentYear = new Date().getFullYear()
const yearOptions = Array.from({ length: 100 }, (_, i) => ({
  value: String(currentYear - i),
  label: currentYear - i
}))

useEffect(() => {
  const countryNames = getNames()
  const countryOptions = countryNames.map((name) => ({
    value: getCode(name),
    label: name
  }))
  setCountries(countryOptions.sort((a, b) => a.label.localeCompare(b.label)))
}, [])

useEffect(() => {
  const fetchCities = async () => {
    if (formData.country) {
      setLoadingCities(true)
      try {
        const response = await axios.get(
          `https://api.geonames.org/searchJSON?
country=${formData.country}&featureClass=P&maxRows=100&population=100000&username=demo
        )
        const cityOptions = response.data.geonames
          .map((city) => ({
            value: city.name,
            label: city.name
          }))
        .sort((a, b) => a.label.localeCompare(b.label))
        setCities(cityOptions)
      } catch (error) {
        console.error("Error fetching cities:", error)
        toast({
          title: "Error",
          description: "Failed to fetch cities. Please try again.",
          variant: "destructive"
        })
        // Fallback to empty array if API fails
        setCities([])
      }
      setLoadingCities(false)
    }
  }
}

if (formData.country) {
  fetchCities()
}
}, [formData.country, toast])

```

```

const handleVerificationCodeChange = (index, value) => {
  // Only accept digits
  if (!/\d*$/ .test(value) && value !== "") return

  // Limit to one character per input
  if (value.length > 1) return

  const newCode = [...verificationCode]
  newCode[index] = value
  setVerificationCode(newCode)

  // Auto-focus next input when a digit is entered
  if (value && index < 5) {
    const nextInput = document.getElementById(`code-${index + 1}`)
    nextInput?.focus()
  }
}

const validatePassword = (password) => {
  // Match the backend password validation requirements
  if (password.length < 8) return "Password must be at least 8 characters long."
  if (!/\d/.test(password)) return "Password must contain at least 1 number."
  if (!/[a-z]/ .test(password)) return "Password must contain at least 1 lowercase letter."
  if (!/[A-Z]/ .test(password)) return "Password must contain at least 1 uppercase letter."
  if (!/[!@#$%^&*()_+=\[\]\{\};':",.<>?]/ .test(password)) return "Password must contain at least 1 special character."
  return null
}

const handleRegister = async () => {
  // Validate email
  if (!formData.email || !/\S+@\S+\.\S+/.test(formData.email)) {
    toast({
      title: "Invalid Email",
      description: "Please enter a valid email address.",
      variant: "destructive"
    })
    return
  }

  // Validate password
  const passwordError = validatePassword(formData.password)
  if (passwordError) {
    toast({
      title: "Invalid Password",
      description: passwordError,
      variant: "destructive"
    })
    return
  }
}

```

```

    }

    // Check if passwords match
    if (formData.password !== formData.confirmPassword) {
        toast({
            title: "Passwords Don't Match",
            description: "Please ensure that your passwords match.",
            variant: "destructive"
        })
        return
    }

    setIsLoading(true)

    try {
        // Register the new user using the FastAPI endpoint
        await axios.post(` ${API_URL}/users/register`, {
            email: formData.email,
            password: formData.password,
            role: "user" // Default role is user
        })

        toast({
            title: "Registration Initiated",
            description: "A verification code has been sent to your email.",
        })

        setStep(2)
    } catch (error) {
        const errorMessage = error.response?.data?.detail || "Registration failed.
Please try again."
        toast({
            title: "Registration Failed",
            description: errorMessage,
            variant: "destructive"
        })
    } finally {
        setLoading(false)
    }
}

const handleVerifyOtp = async () => {
    const otp = verificationCode.join("")

    // Validate OTP format
    if (otp.length !== 6 || !/^\d+$/.test(otp)) {
        toast({
            title: "Invalid Code",
            description: "Please enter a valid 6-digit verification code.",
            variant: "destructive"
        })
        return
    }
}

```

```

    }

    setIsLoading(true)

    try {
        // Verify email using the backend endpoint
        await axios.post(`/${API_URL}/users/verify`, {
            email: formData.email,
            code: otp
        })

        toast({
            title: "Email Verified",
            description: "Your email has been successfully verified.",
        })

        setStep(3)
    } catch (error) {
        const errorMessage = error.response?.data?.detail || "Verification failed.
Please check the code and try again."
        toast({
            title: "Verification Failed",
            description: errorMessage,
            variant: "destructive"
        })
    } finally {
        setIsLoading(false)
    }
}

const handleResendOtp = async () => {
    setIsLoading(true)

    try {
        // Request a new verification code from the backend
        await axios.post(`/${API_URL}/users/resend-verification`, {
            email: formData.email
        })

        toast({
            title: "Verification Code Resent",
            description: "A new verification code has been sent to your email.",
        })

        // Reset the verification code inputs
        setVerificationCode(["", "", "", "", "", "", ""])
    } catch (error) {
        const errorMessage = error.response?.data?.detail || "Failed to resend
verification code. Please try again."
        toast({
            title: "Request Failed",
            description: errorMessage,
        })
    }
}

```

```

        variant: "destructive"
    })
} finally {
    setIsLoading(false)
}
}

const validateBirthdate = () => {
    const dayNum = parseInt(formData.birthDay, 10)
    const monthNum = parseInt(formData.birthMonth, 10)
    const yearNum = parseInt(formData.birthYear, 10)
    const currentDate = new Date()
    const currentYear = currentDate.getFullYear()

    const errors = {}

    if (isNaN(dayNum) || dayNum < 1 || dayNum > 31) {
        errors.day = "Day must be between 1 and 31"
    }

    if (isNaN(monthNum) || monthNum < 1 || monthNum > 12) {
        errors.month = "Month must be between 1 and 12"
    }

    if (yearNum > currentYear) {
        errors.year = "Year cannot be in the future"
    } else if (yearNum < 1900) {
        errors.year = "Year must be after 1900"
    }

    // Calculate age
    const birthDate = new Date(yearNum, monthNum - 1, dayNum)
    const ageDate = new Date(Date.now() - birthDate.getTime())
    const age = Math.abs(ageDate.getUTCFullYear() - 1970)

    if (age < 18) {
        errors.age = "You must be at least 18 years old"
    }

    return errors
}

const handleNextToStep5 = () => {
    // Validate required fields
    if (!formData.gender) {
        toast({
            title: "Gender Required",
            description: "Please select your gender.",
            variant: "destructive"
        })
        return
    }
}

```

```

// Validate birthdate
const errors = validateBirthdate()
if (Object.keys(errors).length > 0) {
  Object.entries(errors).forEach(([key, message]) => {
    toast({
      title: `${key.charAt(0).toUpperCase() + key.slice(1)} Error`,
      description: message,
      variant: "destructive"
    })
  })
  return
}

setStep(5)
}

const handleCompleteRegistration = async () => {
// Validate required location fields
if (!formData.country || !formData.city || !formData.address.trim()) {
  toast({
    title: "Missing Information",
    description: "Please fill in all location fields.",
    variant: "destructive"
  })
  return
}

setIsLoading(true)

try {
  // Create a complete profile by updating the user's profile
  const profileData = {
    user_id: formData.email, // Use email as identifier
    name: `${formData.firstName} ${formData.lastName}`,
    age: String(currentYear - parseInt(formData.birthYear)),
    profile_type: "adult", // Default profile type
    accessibility_settings: {
      preferred_language: "english",
      text_size: "normal",
    },
    can_control_devices: true,
    can_access_energy_data: true,
    can_manage_notifications: true,
    additional_info: {
      first_name: formData.firstName,
      last_name: formData.lastName,
      phone_number: formData.phoneNumber,
      gender: formData.gender,
      birthdate: {
        day: formData.birthDay,
        month: formData.birthMonth,
      }
    }
  }
  await updateProfile(profileData)
  toast({
    title: "Profile Updated",
    description: "Your profile has been successfully updated.",
    variant: "success"
  })
  setStep(6)
}

```

```

        year: formData.birthYear
    },
    address: {
        country: formData.country,
        city: formData.city,
        street_address: formData.address
    }
}
}

// Create user profile
await axios.post(` ${API_URL}/profiles/create`, profileData)

toast({
    title: "Registration Complete",
    description: "Your account has been created successfully!",
})

// Redirect to login page
router.push("/auth/login")
} catch (error) {
    const errorMessage = error.response?.data?.detail || "Failed to complete
registration. Please try again."
    toast({
        title: "Registration Failed",
        description: errorMessage,
        variant: "destructive"
    })
} finally {
    setIsLoading(false)
}
}

const renderStep = () => {
switch (step) {
case 1:
return (
<div className="space-y-6">
    <div className="space-y-2">
        <Label>Enter your Email</Label>
        <div className="relative">
            <Input
                type="email"
                value={formData.email}
                onChange={(e) => setFormData({ ...formData, email: e.target.value
})}>
                className="pl-10"
                placeholder="Enter your Email"
                required
            />
            <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />

```

```

        </div>
    </div>

    <div className="space-y-2">
        <Label>Password</Label>
        <div className="relative">
            <Input
                type={showPassword ? "text" : "password"}
                value={formData.password}
                onChange={(e) => setFormData({ ...formData, password: e.target.value })}

                className="pr-10"
                placeholder="Enter your password"
                required
            />
            <button
                type="button"
                onClick={() => setShowPassword(!showPassword)}
                className="absolute right-3 top-1/2 -translate-y-1/2"
            >
                {showPassword ? (
                    <EyeOff className="h-5 w-5 text-gray-400" />
                ) : (
                    <Eye className="h-5 w-5 text-gray-400" />
                )}
            </button>
        </div>
        <p className="text-xs text-gray-500">
            Password must be at least 8 characters with uppercase, lowercase,
            numbers, and special characters.
        </p>
    </div>

    <div className="space-y-2">
        <Label>Confirm Password</Label>
        <div className="relative">
            <Input
                type={showConfirmPassword ? "text" : "password"}
                value={formData.confirmPassword}
                onChange={(e) => setFormData({ ...formData, confirmPassword: e.target.value })}

                className="pr-10"
                placeholder="Confirm your password"
                required
            />
            <button
                type="button"
                onClick={() => setShowConfirmPassword(!showConfirmPassword)}
                className="absolute right-3 top-1/2 -translate-y-1/2"
            >
                {showConfirmPassword ? (
                    <EyeOff className="h-5 w-5 text-gray-400" />
                ) : (
                    <Eye className="h-5 w-5 text-gray-400" />
                )}
            </button>
        </div>
    </div>

```

```

        ) : (
            <Eye className="h-5 w-5 text-gray-400" />
        )}
    </button>
</div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={handleRegister}
    disabled={isLoading}
>
    {isLoading ? "Processing..." : "Next"}
</Button>
</div>
)
}

case 2:
return (
<div className="space-y-6">
    <h3 className="text-lg font-semibold">Verify Your Email</h3>
    <p className="text-sm text-gray-500">We've sent a 6-digit verification
code to {formData.email}</p>

    <div className="flex justify-between gap-2">
        {verificationCode.map((digit, index) => (
            <Input
                key={index}
                id={`code-${index}`}
                type="text"
                inputMode="numeric"
                maxLength={1}
                value={digit}
                onChange={(e) => handleVerificationCodeChange(index,
e.target.value)}
                className="w-10 h-12 text-center text-xl"
            />
        )))
    </div>

    <p className="text-sm text-center">
        Didn't receive the code?{" "}
        <button
            className="text-[#00B2FF] hover:underline"
            onClick={handleResendOtp}
            disabled={isLoading}
        >
            Resend verification code
        </button>
    </p>
<Button

```

```

        className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
        onClick={handleVerifyOtp}
        disabled={isLoading}
      >
    {isLoading ? "Verifying..." : "Verify & Continue"}
  </Button>
</div>
)

case 3:
return (
<div className="space-y-6">
  <h3 className="text-lg font-semibold">Personal Details</h3>
  <p className="text-sm text-gray-500">Fill in your personal
information</p>

  <div className="space-y-4">
    <div className="space-y-2">
      <Label>First Name</Label>
      <div className="relative">
        <Input
          value={formData.firstName}
          onChange={(e) => setFormData({ ...formData, firstName:
e.target.value })}
          placeholder="Enter your First Name"
          className="pl-10"
          required
        />
        <User className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
      </div>
    </div>
  </div>

  <div className="space-y-2">
    <Label>Last Name</Label>
    <div className="relative">
      <Input
        value={formData.lastName}
        onChange={(e) => setFormData({ ...formData, lastName:
e.target.value })}
        placeholder="Enter your Last Name"
        className="pl-10"
        required
      />
      <User className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5
text-gray-400" />
    </div>
  </div>

  <div className="space-y-2">
    <Label>Phone Number</Label>
    <PhoneInput

```

```

        country={"us"}
        value={formData.phoneNumber}
        onChange={(phone) => setFormData({ ...formData, phoneNumber: phone
    })}
        inputClass="!w-full !py-2 !px-3 !text-base !h-10 !rounded-md
!border-input"
        containerClass="!w-full"
        buttonClass="!border-input !bg-background !rounded-l-md !h-10 !w-
12"
        dropdownClass="!bg-background !text-foreground"
        searchClass="!bg-background !text-foreground"
        />
    </div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={() => setStep(4)}
    disabled={!formData.firstName || !formData.lastName ||
!formData.phoneNumber}
    >
    Next
</Button>
</div>
)

case 4:
return (
<div className="space-y-6">
    <h3 className="text-lg font-semibold">Additional Details</h3>
    <p className="text-sm text-gray-500">Please provide your gender and
birthdate</p>

    <div className="space-y-4">
        <div className="space-y-2">
            <Label>Gender</Label>
            <RadioGroup
                value={formData.gender}
                onChange={(value) => setFormData({ ...formData, gender: value
})}>
                className="flex gap-4"
            >
                <div className="flex items-center space-x-2">
                    <RadioGroupItem value="male" id="male" />
                    <Label htmlFor="male">Male</Label>
                </div>
                <div className="flex items-center space-x-2">
                    <RadioGroupItem value="female" id="female" />
                    <Label htmlFor="female">Female</Label>
                </div>
                <div className="flex items-center space-x-2">
                    <RadioGroupItem value="other" id="other" />

```

```

        <Label htmlFor="other">Other</Label>
    </div>
</RadioGroup>
</div>

<div className="space-y-2">
    <Label>Birthdate</Label>
    <div className="flex gap-4">
        <Select
            value={formData.birthDay}
            onChange={(value) => setFormData({ ...formData, birthDay: value })}>
            <SelectTrigger>
                <SelectValue placeholder="Day" />
            </SelectTrigger>
            <SelectContent>
                {dayOptions.map((option) => (
                    <SelectItem key={option.value} value={option.value}>
                        {option.label}
                    </SelectItem>
                )))
            </SelectContent>
        </Select>
        <Select
            value={formData.birthMonth}
            onChange={(value) => setFormData({ ...formData, birthMonth: value })}>
            <SelectTrigger>
                <SelectValue placeholder="Month" />
            </SelectTrigger>
            <SelectContent>
                {monthOptions.map((option) => (
                    <SelectItem key={option.value} value={option.value}>
                        {option.label}
                    </SelectItem>
                )))
            </SelectContent>
        </Select>
        <Select
            value={formData.birthYear}
            onChange={(value) => setFormData({ ...formData, birthYear: value })}>
            <SelectTrigger>
                <SelectValue placeholder="Year" />
            </SelectTrigger>
            <SelectContent>
                {yearOptions.map((option) => (
                    <SelectItem key={option.value} value={option.value}>
                        {option.label}
                )))
            </SelectContent>
        </Select>
    </div>

```

```

                </SelectItem>
            )}
        </SelectContent>
    </Select>
</div>
</div>
</div>

<Button
    className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
    onClick={handleNextToStep5}
>
    Next
</Button>
</div>
)
}

case 5:
return (
<div className="space-y-6">
    <h3 className="text-lg font-semibold">Location Details</h3>
    <p className="text-sm text-gray-500">Fill in your location
information</p>

    <div className="space-y-4">
        <div className="space-y-2">
            <Label>Country</Label>
            <Select
                value={formData.country}
                onChange={(value) => setFormData({ ...formData, country:
value, city: "" })}>
                >
                    <SelectTrigger>
                        <SelectValue placeholder="Choose your country" />
                    </SelectTrigger>
                    <SelectContent>
                        {countries.map((country) => (
                            <SelectItem key={country.value} value={country.value}>
                                {country.label}
                            </SelectItem>
                        )))
                    </SelectContent>
                </Select>
            </div>
        <div className="space-y-2">
            <Label>City</Label>
            {loadingCities ? (
                <div className="h-10 flex items-center justify-center bg-muted
rounded-md">
                    <p className="text-sm text-muted-foreground">Loading cities...
                </p>
            ) : (
                <Select
                    value={formData.city}
                    onChange={(value) => setFormData({ ...formData, city:
value })}>
                    >
                        <SelectTrigger>
                            <SelectValue placeholder="Choose your city" />
                        </SelectTrigger>
                        <SelectContent>
                            {cities.map((city) => (
                                <SelectItem key={city.value} value={city.value}>
                                    {city.label}
                                </SelectItem>
                            )))
                        </SelectContent>
                    </Select>
                </div>
            )}
        </div>
    </div>
</div>
)
}

```

```

        </div>
      ) : (
        cities.length > 0 ? (
          <Select
            value={formData.city}
            onChange={(value) => setFormData({ ...formData, city:
value })}
            disabled={!formData.country}
          >
            <SelectTrigger>
              <SelectValue placeholder="Choose your city" />
            </SelectTrigger>
            <SelectContent>
              {cities.map((city) => (
                <SelectItem key={city.value} value={city.value}>
                  {city.label}
                </SelectItem>
              )))
            </SelectContent>
          </Select>
        ) : (
          <Input
            value={formData.city}
            onChange={(e) => setFormData({ ...formData, city:
e.target.value })}
            placeholder="Enter your city"
            disabled={!formData.country}
          />
        )
      )
    )
  </div>

<div className="space-y-2">
  <Label>Address</Label>
  <div className="relative">
    <Input
      value={formData.address}
      onChange={(e) => setFormData({ ...formData, address:
e.target.value })}
      placeholder="Enter your address"
      className="pl-10"
    />
    <MapPin className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-
5 text-gray-400" />
  </div>
</div>
</div>

<Button
  className="w-full bg-[#FF9500] hover:bg-[#FF9500]/90 py-6 text-lg"
  onClick={handleCompleteRegistration}
  disabled={isLoading}

```

```

        >
        {isLoading ? "Completing Registration..." : "Complete Registration"}
      </Button>
    </div>
  )
}

default:
  return null
}
}

const handleBack = () => {
  if (step > 1) {
    setStep(step - 1)
  }
}

return (
  <div className="min-h-screen flex">
    <div className="hidden lg:flex lg:flex-1 relative">
      <Image
        src="https://media.istockphoto.com/id/1219569858/photo/woman-cooking-on-the-modern-kitchen-at-home.jpg?
s=612x612&w=0&k=20&c=oUTIUAb0_cALWZ2GCTI3ZUmZCH31cf0UmBMPf1tMsck="
        alt="Smart Home"
        fill
        className="object-cover"
      />
      <div className="absolute inset-0 bg-black/20" />
      <div className="absolute bottom-20 left-10 text-white">
        <h1 className="text-5xl font-bold mb-4">
          <span className="text-[#00B2FF]">SYNC</span> your Home,
          <br />
          Save energy,
          <br />
          and live smarter.
        </h1>
      </div>
    </div>
  </div>

  <div className="flex-1 flex items-center justify-center p-8">
    <div className="w-full max-w-md">
      <div className="flex justify-between items-center mb-8">
        {step > 1 && (
          <button
            onClick={handleBack}
            className="text-[#00B2FF] hover:underline flex items-center"
            disabled={isLoading}
          >
            <ArrowLeft className="mr-2" size={16} />
            Back
          </button>
        )
      </div>
    </div>
  </div>
)
}

```

```

        )}
      <div className="flex items-center gap-2 ml-auto">
        <span className="text-2xl font-bold bg-[#00B2FF] text-white px-3 py-1 rounded-full">
          Sy<span className="text-[#FFB800]">nc</span>
        </span>
      </div>
    </div>

  {renderStep()}

  {step === 1 && (
    <div className="mt-6 text-center">
      <p className="text-sm text-gray-600">
        Already have an account?{" "}
        <Link href="/auth/login" className="text-[#00B2FF] hover:underline">
          Login Here
        </Link>
      </p>
    </div>
  )}
</div>
</div>
</div>
)
}

```

## app/automations/page.tsx

```

// automations/page.tsx
"use client"

import React from "react"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Badge } from "@/components/ui/badge"
import { Clock, Sun, Moon, Home, Plus, Zap, Droplet, Thermometer, Trash2, Edit, Repeat } from "lucide-react"
import { motion } from "framer-motion"
import {
  Dialog,
  DialogContent,
  DialogDescription,
  DialogFooter,
  DialogHeader,
  DialogTitle,
} from "@/components/ui/dialog"

```

```

import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import { Checkbox } from "@/components/ui/checkbox"
import { toast } from "@/components/ui/use-toast"
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar

interface Automation {
  id: number
  name: string
  description: string
  icon: string
  active: boolean
  schedule: {
    type: "once" | "daily" | "weekly" | "custom"
    startTime: string
    endTime: string
    daysOfWeek?: number[]
  }
  devices: string[]
}

interface Device {
  id: string
  name: string
  type: string
}

const automationIcons: Record<string, any> = {
  Sun,
  Moon,
  Home,
  Clock,
  Zap,
  Droplet,
  Thermometer,
}

const daysOfWeek = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"]

export default function AutomationsPage() {
  const [automations, setAutomations] = useState<Automation[]>([])
  const [devices, setDevices] = useState<Device[]>([])
  const [isDialogOpen, setIsDialogOpen] = useState(false)
  const [editingAutomation, setEditingAutomation] = useState<Automation | null>
(null)
  const [newAutomation, setNewAutomation] = useState<Automation>({
    id: 0,
    name: "",
  })
}

```

```

        description: "",
        icon: "Clock",
        active: true,
        schedule: {
          type: "once",
          startTime: "",
          endTime: ""
        },
        devices: []
      })

useEffect(() => {
  const storedAutomations = JSON.parse(localStorage.getItem("automations") || "[]")
  setAutomations(storedAutomations)
  const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]")
  setDevices(storedDevices)
}, [])

const handleToggleAutomation = (id: number, active: boolean) => {
  const updatedAutomations = automations.map((automation) =>
    automation.id === id ? { ...automation, active } : automation,
  )
  setAutomations(updatedAutomations)
  localStorage.setItem("automations", JSON.stringify(updatedAutomations))
}

const handleSaveAutomation = () => {
  if (editingAutomation) {
    const updatedAutomations = automations.map((automation) =>
      automation.id === editingAutomation.id ? { ...newAutomation, id: editingAutomation.id } : automation,
    )
    setAutomations(updatedAutomations)
    localStorage.setItem("automations", JSON.stringify(updatedAutomations))
    toast({
      title: "Automation Updated",
      description: "Your automation has been successfully updated.",
    })
  } else {
    const newAutomationItem = {
      ...newAutomation,
      id: Date.now(),
    }
    const updatedAutomations = [...automations, newAutomationItem]
    setAutomations(updatedAutomations)
    localStorage.setItem("automations", JSON.stringify(updatedAutomations))
    toast({
      title: "Automation Created",
      description: "Your new automation has been successfully added.",
    })
  }
}

```

```

setIsDialogOpen(false)
setEditingAutomation(null)
setNewAutomation({
  id: 0,
  name: "",
  description: "",
  icon: "Clock",
  active: true,
  schedule: {
    type: "once",
    startTime: "",
    endTime: "",
  },
  devices: [],
})
}

const handleDeleteAutomation = (id: number) => {
  if (window.confirm("Are you sure you want to delete this automation?")) {
    const updatedAutomations = automations.filter((automation) => automation.id
!== id)
    setAutomations(updatedAutomations)
    localStorage.setItem("automations", JSON.stringify(updatedAutomations))
    toast({
      title: "Automation Deleted",
      description: "The automation has been successfully removed.",
    })
  }
}

const handleEditAutomation = (automation: Automation) => {
  setEditingAutomation(automation)
  setNewAutomation(automation)
  setIsDialogOpen(true)
}

const formatSchedule = (schedule: Automation["schedule"]) => {
  if (!schedule || !schedule.type) {
    return "Schedule not set"
  }

  switch (schedule.type) {
    case "once":
      return `Once from ${schedule.startTime} to ${schedule.endTime}`
    case "daily":
      return `Daily from ${schedule.startTime} to ${schedule.endTime}`
    case "weekly":
      return `Weekly on ${schedule.daysOfWeek?.map((day) =>
daysOfWeek[day]).join(", ")}` from ${schedule.startTime} to ${schedule.endTime}`
    case "custom":
      return `Custom schedule from ${schedule.startTime} to ${schedule.endTime}`
    default:
  }
}

```

```

        return "Invalid schedule"
    }
}

const containerVariants = {
  hidden: { opacity: 0 },
  visible: {
    opacity: 1,
    transition: {
      staggerChildren: 0.1,
    },
  },
}

const itemVariants = {
  hidden: { y: 20, opacity: 0 },
  visible: {
    y: 0,
    opacity: 1,
  },
}

return (
  <div className="min-h-screen bg-gray-50 flex">
    <NavigationSidebar />
    <div className="flex-1 ml-[72px]">
      <motion.div initial="hidden" animate="visible" variants={containerVariants}>
        <motion.header variants={itemVariants} className="flex justify-between items-center mb-6">
          <div className="flex items-center gap-2">
            <div className="w-12 h-12 bg-gradient-to-br from-[#FF9500] to-[#FFB800] rounded-full flex items-center justify-center shadow-lg">
              <Zap className="h-6 w-6 text-white" />
            </div>
            <div>
              <h1 className="text-2xl font-bold text-gray-800">Automations</h1>
              <p className="text-sm text-gray-500">Manage your smart home routines</p>
            </div>
          </div>
        </motion.header>
        {automations.length > 0 && (
          <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90" onClick={() => setIsDialogOpen(true)}>
            <Plus className="w-4 h-4 mr-2" />
            New Automation
          </Button>
        )}
      </motion.div>
    </div>
    <Dialog open={isDialogOpen} onOpenChange={setIsDialogOpen}>
      <DialogContent className="sm:max-w-[425px]">

```

```

        <DialogHeader>
            <DialogTitle>{editingAutomation ? "Edit Automation" : "Create New
Automation"}</DialogTitle>
            <DialogDescription>
                {editingAutomation ? "Modify your automation settings." : "Set up
a new automation for your smart home."}
            </DialogDescription>
        </DialogHeader>
        <div className="grid gap-4 py-4">
            <div className="grid grid-cols-4 items-center gap-4">
                <Label htmlFor="name" className="text-right">
                    Name
                </Label>
                <Input
                    id="name"
                    value={newAutomation.name}
                    onChange={(e) => setNewAutomation({ ...newAutomation, name:
e.target.value })}
                    className="col-span-3"
                />
            </div>
            <div className="grid grid-cols-4 items-center gap-4">
                <Label htmlFor="icon" className="text-right">
                    Icon
                </Label>
                <Select
                    value={newAutomation.icon}
                    onValueChange={(value) => setNewAutomation({ ...newAutomation,
icon: value })}>
                    >
                        <SelectTrigger className="col-span-3">
                            <SelectValue placeholder="Select icon" />
                        </SelectTrigger>
                        <SelectContent>
                            {Object.keys(automationIcons).map((icon) => (
                                <SelectItem key={icon} value={icon}>
                                    {icon}
                                </SelectItem>
                            )))
                        </SelectContent>
                    </Select>
                </div>
                <div className="grid grid-cols-4 items-center gap-4">
                    <Label htmlFor="scheduleType" className="text-right">
                        Schedule Type
                    </Label>
                    <Select
                        value={newAutomation.schedule.type}
                        onValueChange={(value: "once" | "daily" | "weekly" | "custom")
=>
                        setNewAutomation({
                            ...newAutomation,

```

```

        schedule: { ...newAutomation.schedule, type: value },
    })
}
>
<SelectTrigger className="col-span-3">
    <SelectValue placeholder="Select schedule type" />
</SelectTrigger>
<SelectContent>
    <SelectItem value="once">Once</SelectItem>
    <SelectItem value="daily">Daily</SelectItem>
    <SelectItem value="weekly">Weekly</SelectItem>
    <SelectItem value="custom">Custom</SelectItem>
</SelectContent>
</Select>
</div>
<div className="grid grid-cols-4 items-center gap-4">
    <Label htmlFor="startTime" className="text-right">
        Start Time
    </Label>
    <Input
        id="startTime"
        type="time"
        value={newAutomation.schedule.startTime}
        onChange={(e) =>
            setNewAutomation({
                ...newAutomation,
                schedule: { ...newAutomation.schedule, startTime:
e.target.value },
            })
        }
        className="col-span-3"
    />
</div>
<div className="grid grid-cols-4 items-center gap-4">
    <Label htmlFor="endTime" className="text-right">
        End Time
    </Label>
    <Input
        id="endTime"
        type="time"
        value={newAutomation.schedule.endTime}
        onChange={(e) =>
            setNewAutomation({
                ...newAutomation,
                schedule: { ...newAutomation.schedule, endTime:
e.target.value },
            })
        }
        className="col-span-3"
    />
</div>
{newAutomation.schedule.type === "weekly" && (

```

```


<Label className="text-right">Days</Label>
    <div className="col-span-3 flex flex-wrap gap-2">
        {daysOfWeek.map((day, index) => (
            <div key={day} className="flex items-center space-x-2">
                <Checkbox
                    id={`day-${index}`}
                    checked=
                    {newAutomation.schedule.daysOfWeek?.includes(index)}
                    onChange={(checked) => {
                        const newDays = checked
                            ? [...(newAutomation.schedule.daysOfWeek || []),
                                newDays]
                            : newAutomation.schedule.daysOfWeek?.filter((d) => d
                                !== index);
                        setNewAutomation({
                            ...newAutomation,
                            schedule: { ...newAutomation.schedule, daysOfWeek:
                                newDays },
                        });
                    }}
                />
                <Label htmlFor={`day-${index}`}>{day}</Label>
            </div>
        )));
    </div>
)
}

<div className="grid grid-cols-4 items-center gap-4">
    <Label htmlFor="description" className="text-right">
        Description
    </Label>
    <Input
        id="description"
        value={newAutomation.description}
        onChange={(e) => setNewAutomation({ ...newAutomation,
            description: e.target.value })}
        className="col-span-3"
    />
</div>
<div className="grid grid-cols-4 items-center gap-4">
    <Label htmlFor="devices" className="text-right">
        Devices
    </Label>
    <Select
        value={newAutomation.devices[0] || ""}
        onChange={(value) => setNewAutomation({ ...newAutomation,
            devices: [value] })}
    >
        <SelectTrigger className="col-span-3">
            <SelectValue placeholder="Select device" />
        </SelectTrigger>


```

```

        <SelectContent>
          {devices.map((device) => (
            <SelectItem key={device.id} value={device.id}>
              {device.name}
            </SelectItem>
          )))
        </SelectContent>
      </Select>
    </div>
  </div>
<DialogFooter>
  <Button type="submit" onClick={handleSaveAutomation}>
    {editingAutomation ? "Update automation" : "Save automation"}
  </Button>
</DialogFooter>
</DialogContent>
</Dialog>

<motion.div variants={containerVariants} className="grid grid-cols-1
md:grid-cols-2 lg:grid-cols-3 gap-6">
  {automations.length === 0 ? (
    <motion.div variants={itemVariants} className="col-span-full">
      <Card className="bg-white shadow-lg">
        <CardContent className="p-6 flex flex-col items-center text-
center">
          <div className="w-16 h-16 bg-blue-100 rounded-full flex items-
center justify-center mb-4">
            <Zap className="w-8 h-8 text-blue-500" />
          </div>
          <h3 className="text-lg font-semibold mb-2">No Automations
Yet</h3>
          <p className="text-gray-500 mb-4">
            Create your first automation to start managing your smart home
routines.
          </p>
          <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90" onClick=
{() => setIsDialogOpen(true)}>
            <Plus className="w-4 h-4 mr-2" />
            Add Your First Automation
          </Button>
        </CardContent>
      </Card>
    </motion.div>
  ) : (
    automations.map((automation) => (
      <motion.div key={automation.id} variants={itemVariants}>
        <Card className={`${`overflow-hidden ${automation.active ? "" :
"opacity-50"}`}`>
          <CardHeader
            className={`${`${automation.active ? "bg-gradient-to-r from-
[#00B2FF] to-[#0085FF]" : "bg-gray-400"} text-white`}`}
          >

```

```

<CardTitle className="flex items-center justify-between">
  <span>{automation.name}</span>
  <Switch
    checked={automation.active}
    onCheckedChange={(checked) =>
handleToggleAutomation(automation.id, checked)}
    />
  </CardTitle>
</CardHeader>
<CardContent className="p-4">
  <div className="flex items-center space-x-4 mb-4">
    <div className={`p-2 rounded-full ${automation.active ? "bg-blue-100" : "bg-gray-200"}`}>
      {automation.icon &&
        automationIcons[automation.icon] &&
        React.createElement(automationIcons[automation.icon], {
          className: `w-6 h-6 ${automation.active ? "text-blue-600" : "text-gray-600"}`
        })}
    </div>
    <div>
      <p className="text-sm text-gray-600">
{automation.description}</p>
      <div className="flex items-center space-x-2 mt-1">
        <Repeat className="w-4 h-4 text-gray-400" />
        <span className="text-xs text-gray-500">
{formatSchedule(automation.schedule)}</span>
      </div>
      <div className="flex items-center justify-between">
        <Badge variant="outline" className="text-blue-600 border-blue-600">
          {automation.devices.length} devices
        </Badge>
        <div className="flex space-x-2">
          <Button variant="outline" size="sm" onClick={() =>
handleEditAutomation(automation)}>
            <Edit className="w-4 h-4 text-blue-500" />
          </Button>
          <Button variant="outline" size="sm" onClick={() =>
handleDeleteAutomation(automation.id)}>
            <Trash2 className="w-4 h-4 text-red-500" />
          </Button>
        </div>
      </div>
    </div>
  </div>
</CardContent>
</Card>
</motion.div>
))
)
</motion.div>

```

```

        </motion.div>
    </div>
</div>
);
}

```

## app/components/active-devices.tsx

```

"use client"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Lightbulb, Thermometer, Fan, Tv, Maximize2, Minimize2 } from "lucide-react"
import styles from './ActiveDevices.module.css'

interface Device {
  id: string
  name: string
  type: string
  room: string
  status: "on" | "off"
}

const deviceIcons: Record<string, any> = {
  light: Lightbulb,
  thermostat: Thermometer,
  fan: Fan,
  tv: Tv,
}

export function ActiveDevices() {
  const [devices, setDevices] = useState<Device[]>([])
  const [isMaximized, setIsMaximized] = useState(false)

  useEffect(() => {
    const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]")
    setDevices(storedDevices)
  }, [])

  const toggleDevice = (id: string) => {
    setDevices(
      devices.map((device) => {
        if (device.id === id) {
          const updatedDevice = {
            ...device,
            status: device.status === "on" ? "off" : "on",
          }
          // Update in localStorage
        }
      })
    )
  }
}

```

```

        const allDevices = JSON.parse(localStorage.getItem("devices") || "[]")
        const updatedDevices = allDevices.map((d: Device) => (d.id === id ? 
updatedDevice : d))
            localStorage.setItem("devices", JSON.stringify(updatedDevices))
            return updatedDevice
        }
        return device
    )),
)
}

return (
<Card className={`${isMaximized ? styles.cardMaximizedA : ""} h-full`}>
    <CardHeader className={styles.cardTitleA}>
        <CardTitle>Active Devices</CardTitle>
        <Button variant="ghost" size="sm" onClick={() =>
setIsMaximized(!isMaximized)}>
            {isMaximized ? <Minimize2 className="h-4 w-4" /> : <Maximize2
className="h-4 w-4" />}
        </Button>
    </CardHeader>
    <CardContent>
        <div className={styles.deviceListA}>
            {devices.length === 0 ? (
                <p className="text-sm text-muted-foreground">No devices added yet</p>
            ) : (
                devices.slice(0, isMaximized ? devices.length : 4).map((device) => {
                    const Icon = deviceIcons[device.type] || Lightbulb
                    return (
                        <div key={device.id} className={styles.deviceItemA}>
                            <div className="flex items-center space-x-4">
                                <div
                                    className={`${styles.deviceIconWrapperA} ${device.status ===
"on" ? styles.deviceIconOn : styles.deviceIconOff}`}
                                >
                                    <Icon className={`${styles.deviceIconA} ${device.status ===
"on" ? "text-[#00B2FF]" : "text-gray-500"}` />
                                </div>
                                <div>
                                    <p className={styles.deviceNameA}>{device.name}</p>
                                    <p className={styles.deviceRoomA}>{device.room}</p>
                                </div>
                            </div>
                            <Switch
                                checked={device.status === "on"}
                                onCheckedChange={() => toggleDevice(device.id)}
                                className={styles.deviceStatusSwitchA}
                            />
                        </div>
                    )
                })
            )
        )
    </div>
)
)
)
}

```

```
        </div>
      </CardContent>
    </Card>
  )
}
```

## app/components/air-conditioner-control.tsx

```
"use client"

import { Card } from "@/components/ui/card"
import styles from './AirConditionerControl.module.css'

export function AirConditionerControl() {
  return (
    <Card className={styles.cardAir}>
      <h3 className={styles.cardTitleAir}>Air Conditioner</h3>
      {/* Add air conditioner control UI here */}
    </Card>
  )
}
```

## app/components/automation-widget.tsx

```
"use client"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Badge } from "@/components/ui/badge"
import { Sun, Moon, Home, Clock, Plus } from "lucide-react"
import {
  Dialog,
  DialogContent,
  DialogDescription,
  DialogFooter,
  DialogHeader,
  DialogTitle,
  DialogTrigger,
} from "@/components/ui/dialog"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import styles from './AutomationWidget.module.css'

interface Automation {
```

```
id: number
name: string
description: string
icon: string
active: boolean
schedule: string
type: string
}

const automationIcons: Record<string, any> = {
  Sun,
  Moon,
  Home,
  Clock,
}

export function AutomationWidget() {
  const [automations, setAutomations] = useState<Automation>([][])
  const [newAutomation, setNewAutomation] = useState({
    name: "",
    description: "",
    icon: "Clock",
    schedule: "",
    type: ""
  })

  useEffect(() => {
    const storedAutomations = JSON.parse(localStorage.getItem("automations") || "[]")
    setAutomations(storedAutomations)
  }, [])

  const toggleAutomation = (id: number) => {
    const updatedAutomations = automations.map((automation) =>
      automation.id === id ? { ...automation, active: !automation.active } : automation
    )
    setAutomations(updatedAutomations)
    localStorage.setItem("automations", JSON.stringify(updatedAutomations))
  }

  const addAutomation = () => {
    const newAutomationItem = {
      id: Date.now(),
      ...newAutomation,
      active: true,
    }
    const updatedAutomations = [...automations, newAutomationItem]
    setAutomations(updatedAutomations)
    localStorage.setItem("automations", JSON.stringify(updatedAutomations))
    setNewAutomation({
      name: "",
    })
  }
}
```

```

        description: "",
        icon: "Clock",
        schedule: "",
        type: ""
    })
}

return (
<Card className={styles.cardAuto}>
  <CardHeader className={styles.cardHeaderAuto}>
    <CardTitle className={styles.cardTitleAuto}>Automations</CardTitle>
    <Dialog>
      <DialogTrigger asChild>
        <Button variant="outline" size="icon">
          <Plus className="h-4 w-4" />
        </Button>
      </DialogTrigger>
      <DialogContent className={styles.dialogContentAuto}>
        <DialogHeader>
          <DialogTitle>Create New Automation</DialogTitle>
          <DialogDescription>Set up a new automation for your smart home.</DialogDescription>
        </DialogHeader>
        <div className={styles.gridContainerAuto}>
          <div className={styles.gridColumnAuto}>
            <Label htmlFor="name" className="text-left">
              Name
            </Label>
            <Input
              id="name"
              value={newAutomation.name}
              onChange={(e) => setNewAutomation({ ...newAutomation, name: e.target.value })}
              className="col-span-3"
            />
          </div>
          <div className={styles.gridColumnAuto}>
            <Label htmlFor="description" className="text-left">
              Description
            </Label>
            <Input
              id="description"
              value={newAutomation.description}
              onChange={(e) => setNewAutomation({ ...newAutomation, description: e.target.value })}
              className="col-span-3"
            />
          </div>
          <div className={styles.gridColumnAuto}>
            <Label htmlFor="icon" className="text-left">
              Icon
            </Label>

```

```

<Select
  value={newAutomation.icon}
  onChange={(value) => setNewAutomation({ ...newAutomation,
icon: value })}
>
  <SelectTrigger className="col-span-3">
    <SelectValue placeholder="Select icon" />
  </SelectTrigger>
  <SelectContent>
    <SelectItem value="Sun">Sun</SelectItem>
    <SelectItem value="Moon">Moon</SelectItem>
    <SelectItem value="Home">Home</SelectItem>
    <SelectItem value="Clock">Clock</SelectItem>
  </SelectContent>
</Select>
</div>
<div className={styles.gridItemAuto}>
  <Label htmlFor="schedule" className="text-left">
    Schedule
  </Label>
  <Input
    id="schedule"
    value={newAutomation.schedule}
    onChange={(e) => setNewAutomation({ ...newAutomation, schedule:
e.target.value })}
    className="col-span-3"
    placeholder="e.g., Daily at 8:00 AM"
  />
</div>
<div className={styles.gridItemAuto}>
  <Label htmlFor="type" className="text-left">
    Type
  </Label>
  <Select
    value={newAutomation.type}
    onChange={(value) => setNewAutomation({ ...newAutomation,
type: value })}
>
  <SelectTrigger className="col-span-3">
    <SelectValue placeholder="Select type" />
  </SelectTrigger>
  <SelectContent>
    <SelectItem value="Time-based">Time-based</SelectItem>
    <SelectItem value="Event-based">Event-based</SelectItem>
    <SelectItem value="Condition-based">Condition-based</SelectItem>
  </SelectContent>
</Select>
</div>
</div>
<DialogFooter>
  <Button type="submit" onClick={addAutomation}>
    Add Automation
  </Button>
</DialogFooter>

```

```

        </Button>
    </DialogFooter>
</DialogContent>
</Dialog>
</CardHeader>
<CardContent className={styles.cardContentAuto}>
    <div className="space-y-4">
        {automations.length === 0 ? (
            <p className="text-sm text-muted-foreground">No automations set up
yet</p>
        ) : (
            automations.map((automation) => {
                const Icon = automationIcons[automation.icon] || Clock
                return (
                    <div key={automation.id} className={styles.automationItemAuto}>
                        <div className={styles.detailsWrapperAuto}>
                            <div className={`${styles.iconWrapperAuto} ${automation.active ? styles.activeIconAuto : styles.inactiveIconAuto}`}>
                                <Icon className={styles.iconAuto} />
                            </div>
                            <div>
                                <p className={styles.detailsTextAuto}>{automation.name}</p>
                                <p className={styles.scheduleTextAuto}>{automation.schedule}</p>
                            </div>
                        </div>
                        <div className={styles.badgeWrapperAuto}>
                            <Badge variant="outline">{automation.type}</Badge>
                            <Switch checked={automation.active} onCheckedChange={() =>
                                toggleAutomation(automation.id)} />
                        </div>
                    </div>
                )
            ))
        )
    </div>
</CardContent>
</Card>
)
}

```

## app/components/charts.tsx

```

"use client"

import { Line, Bar, Pie } from "react-chartjs-2"
import {
    Chart as ChartJS,
    CategoryScale,
    LinearScale,

```

```

PointElement,
LineElement,
BarElement,
ArcElement,
Title,
Tooltip,
Legend,
} from "chart.js"
import './charts.css'; // Import the CSS file

ChartJS.register(CategoryScale, LinearScale, PointElement, LineElement, BarElement,
ArcElement, Title, Tooltip, Legend)

export function LineChart({ className }: { className?: string }) {
  const data = {
    labels: ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"],
    datasets: [
      {
        data: [12, 19, 15, 17, 22, 28, 25],
        borderColor: "#00B2FF",
        backgroundColor: "rgba(0, 178, 255, 0.1)",
        tension: 0.4,
        fill: true,
      },
    ],
  }
  return (
    <div className={`${className} chart-containerC chart-lineC`}>
      <Line
        data={data}
        options={{
          responsive: true,
          plugins: {
            legend: {
              display: false,
            },
          },
        }}
      />
    </div>
  )
}

export function BarChart({ className }: { className?: string }) {
  const data = {
    labels: ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"],
    datasets: [
      {
        data: [15, 30, 25, 18, 12, 25, 28],
        backgroundColor: "#00B2FF",
      },
    ],
  }
}

```

```

        ],
    }

    return (
      <div className={`${className} chart-containerC chart-barC`}>
        <Bar
          data={data}
          options={{
            responsive: true,
            plugins: {
              legend: {
                display: false,
              },
            },
          }}
        />
      </div>
    )
}

export function PieChart({ className }: { className?: string }) {
  const data = {
    labels: ["Heating", "Cooling", "Lighting", "Appliances", "Other"],
    datasets: [
      {
        data: [30, 25, 20, 15, 10],
        backgroundColor: ["#FF6384", "#36A2EB", "#FFCE56", "#4BC0C0", "#9966FF"],
      },
    ],
  }

  return (
    <div className={`${className} chart-containerC chart-pieC`}>
      <Pie
        data={data}
        options={{
          responsive: true,
          plugins: {
            legend: {
              position: "bottom" as const,
            },
          },
        }}
      />
    </div>
  )
}

```

## app/components/device-control.tsx

```
"use client"

import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Switch } from "@/components/ui/switch"
import { Slider } from "@/components/ui/slider"
import { Label } from "@/components/ui/label"
import { Lightbulb, Thermometer, Wind } from "lucide-react"
import './DeviceControl.module.css'; // Import the CSS file

interface DeviceControlProps {
  room: string
}

export function DeviceControl({ room }: DeviceControlProps) {
  return (
    <Card className="card-containerD">
      <CardHeader className="card-headerD">
        <CardTitle className="card-titleD">{room} Devices</CardTitle>
      </CardHeader>
      <CardContent className="card-contentD space-y-4">
        <div className="device-control-itemD">
          <div className="flex items-center space-x-2">
            <Lightbulb className="iconD" />
            <Label htmlFor="lights" className="labelD">Lights</Label>
          </div>
          <Switch id="lights" />
        </div>

        <div className="space-y-2">
          <div className="temperature-slider-containerD">
            <div className="flex items-center space-x-2">
              <Thermometer className="iconD" />
              <Label htmlFor="temperature" className="labelD">Temperature</Label>
            </div>
            <span>22°C</span>
          </div>
          <Slider id="temperature" min={16} max={30} step={1} defaultValue={[22]} className="sliderD" />
        </div>

        <div className="device-control-itemD">
          <div className="flex items-center space-x-2">
            <Wind className="iconD" />
            <Label htmlFor="ac" className="labelD">Air Conditioning</Label>
          </div>
          <Switch id="ac" />
        </div>
      </CardContent>
    </Card>
  )
}
```

```
)  
}
```

## app/components/energy-consumption.tsx

```
"use client"

import { useState, useEffect } from "react"
import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select"
import { LineChart } from "@/components/charts"
import './EnergyConsumption.module.css' // Import the CSS file

interface EnergyData {
  date: string
  usage: number
}

export function EnergyConsumption() {
  const [timeframe, setTimeframe] = useState("week")
  const [energyData, setEnergyData] = useState<EnergyData[]>([])

  useEffect(() => {
    // In a real application, this would fetch data from an API
    const generateData = () => {
      const data: EnergyData[] = []
      const now = new Date()
      const daysToGenerate = timeframe === "week" ? 7 : 30

      for (let i = daysToGenerate - 1; i >= 0; i--) {
        const date = new Date(now.getTime() - i * 24 * 60 * 60 * 1000)
        data.push({
          date: date.toISOString().split("T")[0],
          usage: Math.floor(Math.random() * 20) + 10, // Random usage between 10 and
30 kWh
        })
      }
    }

    setEnergyData(data)
  })

  generateData()
}, [timeframe])

return (
<Card className="card-container-E">
  <CardHeader className="card-header-E">
    <CardTitle className="card-title-E">Energy Consumption</CardTitle>
    <Select value={timeframe} onChange={(value) => setTimeframe(value)}>
```

```

        <SelectTrigger className="select-trigger-E">
          <SelectValue placeholder="Select timeframe" />
        </SelectTrigger>
        <SelectContent>
          <SelectItem value="week">Last Week</SelectItem>
          <SelectItem value="month">Last Month</SelectItem>
        </SelectContent>
      </Select>
    </CardHeader>
    <CardContent className="card-content-E">
      <LineChart
        data={energyData.map((d) => ({ name: d.date, usage: d.usage }))}
        xAxisLabel="Date"
        yAxisLabel="Energy (kWh)"
      />
    </CardContent>
  </Card>
)
}

```

## app/components/family-members.tsx

```

"use client"

import { useEffect, useState } from "react"
import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Avatar, AvatarFallback } from "@/components/ui/avatar"
import { Button } from "@/components/ui/button"
import Link from "next/link"
import './FamilyMembers.css' // Import the CSS file

interface FamilyMember {
  id: string
  name: string
  email: string
  role: string
}

export function FamilyMembers() {
  const [familyMembers, setFamilyMembers] = useState<FamilyMember[]>([])

  useEffect(() => {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    setFamilyMembers(storedMembers)
  }, [])

  return (
    <Card className="card-containerF">
      <CardHeader className="card-headerF">
        <CardTitle className="card-titleF">Family Members</CardTitle>

```

```

<Link href="/profile">
  <Button variant="ghost" className="h-8 w-8 p-0">
    <span className="sr-only">Manage family members</span>
    <svg
      xmlns="http://www.w3.org/2000/svg"
      viewBox="0 0 24 24"
      fill="none"
      stroke="currentColor"
      strokeLinecap="round"
      strokeLinejoin="round"
      strokeWidth="2"
      className="button-iconF"
    >
      <path d="M12 5v14M5 12h14" />
    </svg>
  </Button>
</Link>
</CardHeader>
<CardContent className="card-contentF">
  <div className="space-y-4">
    {familyMembers.length === 0 ? (
      <p className="text-sm text-muted-foreground">No family members added
      yet.</p>
    ) : (
      familyMembers.map((member) => (
        <div key={member.id} className="family-memberF">
          <Avatar>
            <AvatarFallback>{member.name[0]}</AvatarFallback>
          </Avatar>
          <div>
            <p className="family-member-nameF">{member.name}</p>
            <p className="family-member-roleF">{member.role}</p>
          </div>
        </div>
      ))
    )}
  </div>
</CardContent>
</Card>
)
}

```

## app/components/logout.ts

```

"use client"

import { useRouter } from "next/navigation"

export function useLogout() {
  const router = useRouter()

```

```

    return () => {
      // Clear localStorage items
      localStorage.removeItem('currentUser');
      localStorage.removeItem('access_token');
      localStorage.removeItem('token_type');

      // Use the correct path
      router.push("/auth/login")
    }
}

```

## app/components/navigation-sidebar.tsx

```

"use client"

import { useState } from "react"
import { Home, Lightbulb, Clock, BarChart2, Plus, User, Settings, Smartphone } from
"lucide-react"
import { cn } from "@/lib/utils"
import { usePathname, useRouter } from "next/navigation"
import Link from "next/link"
import { AccessDeniedDialog } from "@/components/access-denied-dialog"

const navigationItems = [
  { icon: Home, path: "/", label: "Dashboard" },
  { icon: Lightbulb, path: "/suggestions", label: "Suggestions" },
  { icon: Clock, path: "/automations", label: "Automations", requiredPermission:
"addAutomation" },
  { icon: BarChart2, path: "/statistics", label: "Statistics", requiredPermission:
"statisticalData" },
  { icon: Smartphone, path: "/devices", label: "Devices" },
  { icon: Plus, path: "/add-room", label: "Add Room" },
  { icon: User, path: "/profile", label: "Profile" },
  { icon: Settings, path: "/settings", label: "Settings" },
]

export function NavigationSidebar() {
  const pathname = usePathname()
  const router = useRouter()
  const [accessDeniedOpen, setAccessDeniedOpen] = useState(false)
  const [deniedFeature, setDeniedFeature] = useState("")

  const handleNavigation = (path: string, requiredPermission?: string) => {
    // TODO: Add user role restricted access
    router.push(path)
  }

  return (
    <>

```

```

    <div className="fixed left-0 top-0 h-screen w-[72px] bg-[#FF9500] flex flex-col items-center py-4 space-y-6">
      <Link href="/">
        <div className="w-[52px] h-[32px] bg-gradient-to-r from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center">
          <span className="text-white font-bold text-sm">
            Sy<span className="text-[#FFB800]">nc</span>
          </span>
        </div>
      </Link>
      {navigationItems.map((item) => (
        <button
          key={item.path}
          onClick={() => handleNavigation(item.path, item.requiredPermission)}
          className={cn(
            "w-10 h-10 rounded-xl flex items-center justify-center",
            pathname === item.path ? "bg-white" : "hover:bg-white/10",
          )}
        >
          <item.icon className={cn("w-5 h-5", pathname === item.path ? "text-[#FF9500]" : "text-white")}>/>
        </button>
      ))}
    </div>
    <AccessDeniedDialog
      isOpen={accessDeniedOpen}
      onClose={() => setAccessDeniedOpen(false)}
      featureName={deniedFeature}
    />
  </>
)
}

```

## app/components/room-energy-consumption.tsx

```

"use client"

import { useState } from "react"
import { Card,CardContent,CardHeader,CardTitle } from "@/components/ui/card"
import { Battery,ChevronLeft,ChevronRight } from "lucide-react"
import { Button } from "@/components/ui/button"

interface Room {
  id: string
  name: string
  consumption: number
}

interface RoomEnergyConsumptionProps {

```

```
rooms: Room[]
}

export function RoomEnergyConsumption({ rooms }: RoomEnergyConsumptionProps) {
  const [currentRoomIndex, setCurrentRoomIndex] = useState(0)

  const currentRoom = rooms[currentRoomIndex]

  const handlePrevRoom = () => {
    setCurrentRoomIndex((prevIndex) => (prevIndex > 0 ? prevIndex - 1 : rooms.length - 1))
  }

  const handleNextRoom = () => {
    setCurrentRoomIndex((prevIndex) => (prevIndex < rooms.length - 1 ? prevIndex + 1 : 0))
  }

  const getConsumptionColor = (consumption: number) => {
    if (consumption < 20) return "bg-green-500"
    if (consumption < 50) return "bg-yellow-500"
    return "bg-red-500"
  }

  return (
    <Card className="col-span-full">
      <CardHeader className="flex flex-row items-center justify-between">
        <CardTitle>Room Energy Consumption</CardTitle>
        <div className="flex items-center space-x-2">
          <Button variant="outline" size="icon" onClick={handlePrevRoom}>
            <ChevronLeft className="h-4 w-4" />
          </Button>
          <Button variant="outline" size="icon" onClick={handleNextRoom}>
            <ChevronRight className="h-4 w-4" />
          </Button>
        </div>
      </CardHeader>
      <CardContent>
        <div className="flex items-center justify-between">
          <div className="flex items-center space-x-4">
            <Battery className="h-8 w-8 text-[#00B2FF]" />
            <div>
              <h3 className="text-lg font-semibold">{currentRoom.name}</h3>
              <p className="text-sm text-gray-500">Current consumption</p>
            </div>
          </div>
          <div className="text-right">
            <p className="text-2xl font-bold">{currentRoom.consumption} kWh</p>
            <p className="text-sm text-gray-500">Today's usage</p>
          </div>
        </div>
        <div className="mt-4">
```

```

        <div className="h-4 w-full bg-gray-200 rounded-full overflow-hidden">
          <div
            className={`h-full ${getConsumptionColor(currentRoom.consumption)}`}
            style={{ width: `${Math.min((currentRoom.consumption / 100) * 100,
100)}%` }}
          ></div>
        </div>
      </div>
      <div className="mt-2 flex justify-between text-sm text-gray-500">
        <span>0 kWh</span>
        <span>50 kWh</span>
        <span>100 kWh</span>
      </div>
    </CardContent>
  </Card>
)
}

```

## app/components/room-preview.tsx

```

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

interface RoomPreviewProps {
  room: string
}

export function RoomPreview({ room }: RoomPreviewProps) {
  return (
    <Card className="mt-4">
      <CardHeader>
        <CardTitle>{room} Preview</CardTitle>
      </CardHeader>
      <CardContent>
        <div className="relative h-48 rounded-md overflow-hidden">
          <Image
            src="https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-
MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg"
            alt={`${room} Preview`}
            layout="fill"
            objectFit="cover"
          />
        </div>
      </CardContent>
    </Card>
  )
}

```

## app/components/room-selector.tsx

```
"use client"

import { useEffect, useState } from "react"
import { Button } from "@/components/ui/button"
import { ChevronRight } from "lucide-react"

interface RoomSelectorProps {
  selectedRoom: string
  onSelectRoom: (room: string) => void
}

export function RoomSelector({ selectedRoom, onSelectRoom }: RoomSelectorProps) {
  const [rooms, setRooms] = useState(["Living Room", "Bedroom", "Kitchen",
  "Bathroom", "Office", "Kids Room"])

  useEffect(() => {
    const storedRooms = JSON.parse(localStorage.getItem("rooms") || "[]")
    if (storedRooms.length > 0) {
      setRooms((prevRooms) => [...prevRooms, ...storedRooms.map((room: any) =>
      room.name)])
    }
  }, [])

  return (
    <div className="flex items-center space-x-2 overflow-x-auto py-2">
      {rooms.map((room) => (
        <Button
          key={room}
          variant={room === selectedRoom ? "default" : "ghost"}
          className={room === selectedRoom ? "bg-[#00B2FF] hover:bg-[#00B2FF]/90" :
          ""}
          onClick={() => onSelectRoom(room)}
        >
          {room}
        </Button>
      ))}
      <Button variant="ghost" size="icon">
        <ChevronRight className="h-4 w-4" />
      </Button>
    </div>
  )
}
```

## app/components/smart-scenes.tsx

```

import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Sun, Moon, Coffee, Tv, Book, DoorClosed } from "lucide-react"

const scenes = [
  { name: "Good Morning", icon: Sun, color: "bg-yellow-500" },
  { name: "Good Night", icon: Moon, color: "bg-blue-500" },
  { name: "Movie Time", icon: Tv, color: "bg-purple-500" },
  { name: "Reading Mode", icon: Book, color: "bg-green-500" },
  { name: "Coffee Break", icon: Coffee, color: "bg-orange-500" },
  { name: "Away Mode", icon: DoorClosed, color: "bg-red-500" },
]

export function SmartScenes() {
  return (
    <Card>
      <CardHeader>
        <CardTitle>Smart Scenes</CardTitle>
      </CardHeader>
      <CardContent>
        <div className="grid grid-cols-2 gap-3">
          {scenes.map((scene) => (
            <Button key={scene.name} variant="outline" className="h-auto py-4 flex
flex-col items-center gap-2">
              <div className={`p-2 rounded-full ${scene.color}`}>
                <scene.icon className="h-5 w-5 text-white" />
              </div>
              <span className="text-sm">{scene.name}</span>
            </Button>
          )))
        </div>
      </CardContent>
    </Card>
  )
}

```

## app/components/sortable-widget.tsx

```

"use client"

import { useSortable } from "@dnd-kit/sortable"
import { CSS } from "@dnd-kit/utilities"
import { GripVertical } from "lucide-react"
import type React from "react"

interface SortableWidgetProps {
  id: string
  isEditing: boolean

```

```

    children: React.ReactNode
}

export function SortableWidget({ id, isEditing, children }: SortableWidgetProps) {
  const { attributes, listeners, setNodeRef, transform, transition, isDragging } =
  useSortable({ id })

  const style = {
    transform: CSS.Transform.toString(transform),
    transition,
    zIndex: isDragging ? 1000 : "auto",
    opacity: isDragging ? 0.5 : 1,
  }

  return (
    <div ref={setNodeRef} style={style} className="relative group">
      {isEditing && (
        <div
          className="absolute right-2 top-2 cursor-move z-50 opacity-0 group-
          hover:opacity-100 transition-opacity"
          {...attributes}
          {...listeners}
        >
          <GripVertical className="h-5 w-5 text-gray-400" />
        </div>
      )}
      {children}
    </div>
  )
}

```

## app/components/time-date-widget.tsx

```

"use client"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Clock } from "lucide-react"

export function TimeDateWidget() {
  const [currentTime, setCurrentTime] = useState(new Date())

  useEffect(() => {
    const timer = setInterval(() => setCurrentTime(new Date()), 1000)
    return () => clearInterval(timer)
  }, [])

  const formatDate = (date: Date) => {
    return date.toLocaleDateString("en-US", {

```

```

        weekday: "long",
        year: "numeric",
        month: "long",
        day: "numeric",
    })
}

const formatTime = (date: Date) => {
    return date.toLocaleTimeString("en-US", {
        hour: "2-digit",
        minute: "2-digit",
        second: "2-digit",
    })
}

return (
    <Card>
        <CardHeader className="flex flex-row items-center justify-between space-y-0 pb-2">
            <CardTitle className="text-sm font-medium">Current Time & Date</CardTitle>
            <Clock className="h-4 w-4 text-muted-foreground" />
        </CardHeader>
        <CardContent>
            <div className="text-2xl font-bold">{formatTime(currentTime)}</div>
            <p className="text-xs text-muted-foreground">{formatDate(currentTime)}</p>
        </CardContent>
    </Card>
)
}

```

## app/components/weather-widget.tsx

```

import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Sun, Cloud, Droplets } from "lucide-react"

export function WeatherWidget() {
    return (
        <Card>
            <CardHeader>
                <CardTitle>Weather</CardTitle>
            </CardHeader>
            <CardContent>
                <div className="flex items-center justify-between">
                    <div className="flex items-center space-x-2">
                        <Sun className="h-8 w-8 text-yellow-500" />
                        <div>
                            <p className="text-2xl font-bold">28°C</p>
                            <p className="text-sm text-gray-500">Sunny</p>
                        </div>
                    </div>
                </div>
            </CardContent>
        </Card>
    )
}

```

```

        </div>
      <div>
        <div className="flex items-center space-x-1">
          <Cloud className="h-4 w-4" />
          <span className="text-sm">20%</span>
        </div>
        <div className="flex items-center space-x-1">
          <Droplets className="h-4 w-4" />
          <span className="text-sm">30%</span>
        </div>
      </div>
    </CardContent>
  </Card>
)
}
}

```

## app/create-profile/page.tsx

```

// create-profile/page.tsx
"use client";

import { useState } from "react";
import Image from "next/image";
import { useRouter } from "next/navigation";
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Label } from "@/components/ui/label";
import {
  Select,
  SelectContent,
  SelectItem,
  SelectTrigger,
  SelectValue,
} from "@/components/ui/select";
import { Switch } from "@/components/ui/switch";
import { ArrowLeft, Upload, Users } from "lucide-react";
import { RadioGroup, RadioGroupItem } from "@/components/ui/radio-group";
import { motion } from "framer-motion";
import { toast } from "@/components/ui/use-toast";
import axios from "axios";

const API_URL = process.env.NEXT_PUBLIC_API_URL || "http://localhost:8000";

export default function CreateProfilePage() {
  const router = useRouter();
  const [step, setStep] = useState(1);
  const [formData, setFormData] = useState({

```

```

profileType: "",
role: "",
firstName: "",
lastName: "",
email: "",
age: "",
energyGoal: "",
accessibility: false,
avatar: "",
pinType: "admin", // "admin" or "user"
pin: ["", "", "", ""],
permissions: {
    notifications: true,
    energyAlerts: true,
    addAutomation: false,
    statisticalData: false,
    deviceControl: true,
    roomControl: false,
},
});

const handlePinChange = (index: number, value: string) => {
    if (value.length > 1) return; // Only allow single digits
    const newPin = [...formData.pin];
    newPin[index] = value;
    setFormData({ ...formData, pin: newPin });

    // Auto-focus next input
    if (value !== "" && index < 3) {
        const nextInput = document.getElementById(`pin-${index + 1}`);
        nextInput?.focus();
    }
};

const handleSubmit = async () => {
    const pin = formData.pin.join("");
    const currentUser = JSON.parse(localStorage.getItem("currentUser") || "{}");

    const payload = {
        name: `${formData.firstName} ${formData.lastName}`,
        email: formData.email,
        account_type: formData.role,
        pin_option: formData.pinType,
        household_id: currentUser.householdId, // use householdId from current
user
        admin_user: currentUser.email, // use admin user from current user
        pin: pin,
        permissions: formData.permissions,
    };
    try {
        await axios.post(`${API_URL}/api/create-profile`, payload);
    }
};

```

```

        toast({
          title: "Profile Created",
          description:
            "The new household member profile has been successfully
created.",
        });
        router.push("/manage-profiles");
      } catch (error) {
        console.error("Error creating profile:", error);
        toast({
          title: "Error",
          description: "Failed to create profile. Please try again.",
          variant: "destructive",
        });
      }
    };
  };

  return (
    <div className="min-h-screen bg-gradient-to-br from-gray-50 to-gray-100 p-
6">
    <motion.div
      initial={{ opacity: 0, y: -20 }}
      animate={{ opacity: 1, y: 0 }}
      transition={{ duration: 0.5 }}
    >
      <header className="flex justify-between items-center mb-8">
        <div className="flex items-center gap-4">
          <Button variant="ghost" size="icon" onClick={() =>
router.back()}>
            <ArrowLeft className="h-6 w-6" />
          </Button>
          <div className="flex items-center gap-4">
            <div className="w-12 h-12 bg-gradient-to-br from-
[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
              <Users className="h-6 w-6 text-white" />
            </div>
            <div>
              <h1 className="text-2xl font-bold text-gray-800">
                Create Profile
              </h1>
              <p className="text-sm text-gray-500">
                Add a new family member or guest
              </p>
            </div>
          </div>
        </div>
      </header>
    </motion.div>

    <motion.div
      initial={{ opacity: 0, y: 20 }}
      animate={{ opacity: 1, y: 0 }}>

```

```

        transition={{ duration: 0.5 }}
    >
    <Card className="max-w-2xl mx-auto">
        <CardHeader>
            <CardTitle>
                {step === 1
                    ? "Profile Information"
                    : step === 2
                        ? "Set PIN Code"
                        : "Set Permissions"}
            </CardTitle>
        </CardHeader>
        <CardContent>
            {step === 1 && (
                <div className="grid grid-cols-2 gap-6">
                    <div className="col-span-2">
                        <Label>Select Profile Type</Label>
                        <Select
                            value={formData.profileType}
                            onChange={(value) =>
                                setFormData({ ...formData, profileType:
value })
                            }
                >
                    <SelectTrigger>
                        <SelectValue placeholder="Select profile
type" />
                    </SelectTrigger>
                    <SelectContent>
                        <SelectItem value="family">Family
Member</SelectItem>
                        <SelectItem
                            value="guest">Guest</SelectItem>
                    </SelectContent>
                </Select>
            </div>

            <div className="col-span-2">
                <Label>Select Role</Label>
                <Select
                    value={formData.role}
                    onChange={(value) =>
                        setFormData({ ...formData, role: value
})
                }
            >
                <SelectTrigger>
                    <SelectValue placeholder="Select role"
/>
                </SelectTrigger>
                <SelectContent>
                    <SelectItem

```



```

        />
    </div>

    <div>
        <Label>Energy Saving Goal (kWh)</Label>
        <Input
            type="number"
            value={formData.energyGoal}
            onChange={(e) =>
                setFormData({ ...formData, energyGoal:
e.target.value })
            }
        />
    </div>

    <div className="col-span-2">
        <div className="flex items-center justify-
between">
            <Label>Accessibility features</Label>
            <Switch
                checked={formData.accessibility}
                onCheckedChange={(checked) =>
                    setFormData({ ...formData,
accessibility: checked })
                }
            />
        </div>
    </div>

    <div className="col-span-2">
        <Label>Profile Avatar</Label>
        <div className="mt-2 flex flex-col items-center
justify-center border-2 border-dashed rounded-xl p-6">
            <div className="w-24 h-24 bg-gray-200
rounded-full flex items-center justify-center mb-4">
                {formData.avatar ? (
                    <Image
                        src={formData.avatar ||

"/placeholder.svg"}
                        alt="Avatar"
                        width={96}
                        height={96}
                        className="rounded-full"
                    />
                ) : (
                    <Upload className="w-8 h-8 text-
gray-400" />
                )}
            </div>
            <Button
                variant="outline"
                onClick={() =>

```

```
document.getElementById("avatar-  
upload")?.click()  
    }  
    >  
        Select Avatar  
</Button>  
<input  
    id="avatar-upload"  
    type="file"  
    className="hidden"  
    accept="image/*"  
    onChange={(e) => {  
        const file = e.target.files?.[0];  
        if (file) {  
            const reader = new FileReader();  
            reader.onloadend = () => {  
                setFormData({  
                    ...formData,  
                    avatar: reader.result as  
string,  
                });  
            };  
            reader.readAsDataURL(file);  
        }  
    }}  
    />  
    </div>  
</div>  
  
<div className="col-span-2">  
    <Button  
        className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90"  
        onClick={() => setStep(2)}  
    >  
        Next  
    </Button>  
    </div>  
</div>  
)  
  
{step === 2 && (  
    <div className="space-y-6">  
        <div className="space-y-4">  
            <Label>PIN Setup Method</Label>  
            <RadioGroup  
                defaultValue={formData.pinType}  
                onValueChange={(value) =>  
                    setFormData({ ...formData, pinType:  
value })  
                }  
            className="flex flex-col space-y-2"  
        </div>  
    </div>
```

```

        >
            <div className="flex items-center space-x-2">
                <RadioGroupItem value="admin" id="admin" />
                <Label htmlFor="admin">I set the PIN</Label>
            </div>
            <div className="flex items-center space-x-2">
                <RadioGroupItem value="user" id="user" />
                <Label htmlFor="user">User sets the PIN</Label>
            </div>
        </div>
    </div>
    {formData.pinType === "admin" && (
        <div className="space-y-4">
            <Label>Enter 4-digit PIN</Label>
            <div className="flex justify-center gap-4">
                {[0, 1, 2, 3].map((i) => (
                    <Input
                        key={i}
                        id={`pin-${i}`}
                        type="text"
                        inputMode="numeric"
                        pattern="[0-9]*"
                        maxLength={1}
                        className="w-16 h-16 text-2xl text-center"
                        value={formData.pin[i]}
                        onChange={(e) =>
                            handlePinChange(i, e.target.value)
                        }
                        onKeyDown={(e) => {
                            if (
                                e.key === "Backspace" &&
                                !formData.pin[i] &&
                                i > 0
                            ) {
                                const prevInput =
                                    document.getElementById(`pin-${i - 1}`);
                                prevInput?.focus();
                            }
                        }}
                    />
                )))
            </div>
        </div>
    )
}

```

```

        </div>
    )}

<div className="flex gap-4">
    <Button
        variant="outline"
        className="flex-1"
        onClick={() => setStep(1)}
    >
        Back
    </Button>
    <Button
        className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90"
        onClick={() => setStep(3)}
    >
        Next
    </Button>
</div>
</div>
)}
```

{step === 3 && (
<div className="space-y-6">
<h3 className="text-lg font-semibold">Set
Permissions</h3>
{Object.entries(formData.permissions).map(([key,
value]) => (
<div key={key} className="flex items-center justify-between">
<Label htmlFor={key} className="flex items-center space-x-2">
<span>
{key
.replace(/([A-Z])/g, " \$1")
.replace(/\./, (str) =>
str.toUpperCase())}
</span>
</Label>
<Switch
id={key}
checked={value}
onCheckedChange={(checked) =>
setFormData({
...formData,
permissions: {
...formData.permissions,
[key]: checked,
}),
})
}
className="data-[state=checked]:bg-

```

[#00B2FF]"
```

- />
- </div>
- )})
- <div className="flex gap-4">
- <Button
- variant="outline"
- className="flex-1"
- onClick={() => setStep(2)}
- >
- Back
- </Button>
- <Button
- className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90"
- onClick={handleSubmit}
- >
- Create Profile
- </Button>
- </div>
- </div>
- )}
- </CardContent>
- </Card>
- </motion.div>
- </div>

);

}

## app/dashboard/page.tsx

```

// dashboard/page.tsx
"use client";

import { useState, useEffect } from "react";
import { DndContext, closestCenter, KeyboardSensor, PointerSensor, useSensor, useSensors } from "@dnd-kit/core";
import { arrayMove, SortableContext, sortableKeyboardCoordinates, rectSortingStrategy } from "@dnd-kit/sortable";
import { Edit2, Download, Bell, Command, HelpCircle, Sun, Moon, Lock } from "lucide-react";
import { Button } from "@/components/ui/button";
import { Card,CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { ActiveDevices } from "../components/active-devices";
import { EnergyConsumption } from "../components/energy-consumption";
import { FamilyMembers } from "../components/family-members";
import { WeatherWidget } from "../components/weather-widget";
import { SortableWidget } from "../components/sortable-widget";
import { AutomationWidget } from "../components/automation-widget";
import { RoomEnergyConsumption } from "../components/room-energy-consumption";
```

```

import { TimeDateWidget } from "../components/time-date-widget";
import { motion } from "framer-motion";
import { useRouter } from "next/navigation";
import { toast } from "@/components/ui/use-toast";
import { useUser } from "@/contexts/UserContext"; // Import the user context
import { NavigationSidebar } from "@/app/components/navigation-sidebar";
import ProtectedRoute from "@/components/ProtectedRoute"; // Import the protected
route component

const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000/api/v1';

const initialWidgets = [
  { id: "time-date", component: TimeDateWidget },
  { id: "devices", component: ActiveDevices },
  { id: "weather", component: WeatherWidget },
  { id: "energy", component: EnergyConsumption },
  { id: "automation", component: AutomationWidget },
]

export default function Page() {
  const router = useRouter();
  const { user } = useUser(); // Use the user context

  const [rooms, setRooms] = useState([
    { id: "1", name: "Living Room", consumption: 45 },
    { id: "2", name: "Bedroom", consumption: 18 },
    { id: "3", name: "Kitchen", consumption: 72 },
    { id: "4", name: "Bathroom", consumption: 12 },
    { id: "5", name: "Office", consumption: 35 },
  ]);
  const [isEditing, setIsEditing] = useState(false);
  const [widgets, setWidgets] = useState(initialWidgets);
  const [isDarkMode, setIsDarkMode] = useState(false);
  const [userPermissions, setUserPermissions] = useState({
    statisticalData: true,
    addAutomation: true,
    roomControl: true
  });

  // Use the user data from context instead of making separate API calls
  useEffect(() => {
    // If we have actual permissions endpoints, we can fetch them here
    // For now, we'll use default permissions or mock them based on the user's email
    if (user) {
      // This is a simplified mock - in a real app, you'd fetch real permissions
      // from your API
      const mockPermissions = {
        statisticalData: true,
        addAutomation: user.email.includes("admin") ? true : false,
        roomControl: true
      };
    }
  });
}

```

```

        setUserPermissions(mockPermissions);

        // Filter widgets based on permissions
        const filteredWidgets = initialWidgets.filter((widget) => {
            if (widget.id === "energy" && !mockPermissions.statisticalData) return
            false;
            if (widget.id === "automation" && !mockPermissions.addAutomation) return
            false;
            return true;
        });

        setWidgets(filteredWidgets);
    }
}, [user]);

const sensors = useSensors(
    useSensor(PointerSensor),
    useSensor(KeyboardSensor, {
        coordinateGetter: sortableKeyboardCoordinates,
    }),
);

function handleDragEnd(event: any) {
    const { active, over } = event;

    if (active.id !== over.id) {
        setWidgets((items) => {
            const oldIndex = items.findIndex((item) => item.id === active.id);
            const newIndex = items.findIndex((item) => item.id === over.id);
            return arrayMove(items, oldIndex, newIndex);
        });
    }
}

const containerVariants = {
    hidden: { opacity: 0 },
    visible: {
        opacity: 1,
        transition: {
            staggerChildren: 0.1,
        },
    },
};

const itemVariants = {
    hidden: { y: 20, opacity: 0 },
    visible: {
        y: 0,
        opacity: 1,
    },
};

```

```

const handleRequestAccess = (feature: string) => {
  // In a real application, this would send a request to the admin
  toast({
    title: "Access Requested",
    description: `Your request for access to ${feature} has been sent to the
admin.`,
  });
}

// Wrap the entire dashboard in the ProtectedRoute component
return (
  <ProtectedRoute>
    <div className={`${p-6 min-h-screen ${isDarkMode ? "bg-gray-900 text-white" :
"bg-gray-50 text-gray-900"}'}`>
      <NavigationSidebar />
      <div className="ml-[72px]">
        <motion.header variants={itemVariants} className="flex justify-between
items-center mb-6">
          <div className="flex items-center gap-4">
            <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-
[#0085FF] rounded-full flex items-center justify-center shadow-lg">
              <span className="text-white font-bold text-xl">Sy</span>
            </div>
            <div>
              <h1 className="text-2xl font-bold">Welcome Home,
{user?.email?.split("@")[0] || "User"}</h1>
              <p className="text-sm text-gray-500">Your smart home dashboard</p>
            </div>
          </div>
          <div className="flex items-center space-x-2">
            {userPermissions.addAutomation && (
              <Button
                variant="ghost"
                size="icon"
                onClick={() => setIsEditing(!isEditing)}
                className={isEditing ? "bg-blue-100" : ""}
              >
                <Edit2 className="h-5 w-5" />
              </Button>
            )}
            <Button variant="ghost" size="icon">
              <Download className="h-5 w-5" />
            </Button>
            <Button variant="ghost" size="icon">
              <Bell className="h-5 w-5" />
            </Button>
            <Button variant="ghost" size="icon">
              <Command className="h-5 w-5" />
            </Button>
            <Button variant="ghost" size="icon">
              <HelpCircle className="h-5 w-5" />
            </Button>
          </div>
        </motion.header>
      </div>
    </div>
  </ProtectedRoute>
)

```

```

        <Button variant="ghost" size="icon" onClick={() =>
setIsDarkMode(!isDarkMode)}>
    {isDarkMode ? <Sun className="h-5 w-5" /> : <Moon className="h-5 w-
5" />}
    </Button>
</div>
</motion.header>

<div className="grid grid-cols-12 gap-6">
    <motion.div variants={itemVariants} className="col-span-12 lg:col-span-
8">
        {userPermissions.roomControl ? (
            <Card className={`mb-6 ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
                <CardHeader>
                    <CardTitle>Room Energy Overview</CardTitle>
                </CardHeader>
                <CardContent>
                    <RoomEnergyConsumption rooms={rooms} />
                </CardContent>
            </Card>
        ) : (
            <Card className={`mb-6 ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
                <CardContent className="flex flex-col items-center justify-center
p-6">
                    <Lock className="w-12 h-12 text-gray-400 mb-4" />
                    <h3 className="text-lg font-semibold mb-2">Access Required</h3>
                    <p className="text-sm text-gray-500 text-center mb-4">
                        You don't have permission to view room control data.
                    </p>
                    <Button onClick={() => handleRequestAccess("Room
Control")}>Request Access</Button>
                </CardContent>
            </Card>
        )}
        <DndContext sensors={sensors} collisionDetection={closestCenter}
onDragEnd={handleDragEnd}>
            <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-
4">
                <SortableContext items={widgets.map((w) => w.id)} strategy=
{rectSortingStrategy}>
                    {widgets.map((widget) => (
                        <SortableWidget key={widget.id} id={widget.id} isEditing=
{isEditing}>
                            <Card className={`h-full ${isDarkMode ? "bg-gray-800" : "bg-
white"}`}>
                                <CardContent className="p-4">
                                    {/* Pass user information from the context */}
                                    <widget.component
                                        userId={user?.id}
                                        email={user?.email}
                                        token={user?.token}
                                    />
                                </CardContent>
                            </Card>
                    ))
                )
            </SortableContext>
        </div>
    </DndContext>
</motion.div>

```

```

                </CardContent>
            </Card>
        </SortableWidget>
    )})
</SortableContext>
</div>
</DndContext>
</motion.div>
<motion.div variants={itemVariants} className="col-span-12 lg:col-span-4">
    <Card className={`h-full ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
        <CardHeader>
            <CardTitle>Family Members</CardTitle>
        <CardHeader>
        <CardContent>
            <FamilyMembers />
        <CardContent>
    <Card>
    </motion.div>
</div>
</div>
</div>
</ProtectedRoute>
);
}
}

```

## app/dashboard/page.tsx.bak

```

"use client";

import { useState, useEffect } from "react";
import { DndContext, closestCenter, KeyboardSensor, PointerSensor, useSensor, useSensors } from "@dnd-kit/core";
import { arrayMove, SortableContext, sortableKeyboardCoordinates, rectSortingStrategy } from "@dnd-kit/sortable";
import { Edit2, Download, Bell, Command, HelpCircle, Sun, Moon, Lock } from "lucide-react";
import { Button } from "@/components/ui/button";
import { Card,CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { ActiveDevices } from "../components/active-devices";
import { EnergyConsumption } from "../components/energy-consumption";
import { FamilyMembers } from "../components/family-members";
import { WeatherWidget } from "../components/weather-widget";
import { SortableWidget } from "../components/sortable-widget";
import { AutomationWidget } from "../components/automation-widget";
import { RoomEnergyConsumption } from "../components/room-energy-consumption";
import { TimeDateWidget } from "../components/time-date-widget";
import { motion } from "framer-motion";
import { useRouter } from "next/navigation";
import { toast } from "@/components/ui/use-toast";

```

```
import axios from "axios";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import the navbar

const API_URL = process.env.NEXT_PUBLIC_API_URL || 'http://localhost:8000';

const initialWidgets = [
  { id: "time-date", component: TimeDateWidget },
  { id: "devices", component: ActiveDevices },
  { id: "weather", component: WeatherWidget },
  { id: "energy", component: EnergyConsumption },
  { id: "automation", component: AutomationWidget },
]

export default function Page() {
  const router = useRouter()
  const [rooms, setRooms] = useState([
    { id: "1", name: "Living Room", consumption: 45 },
    { id: "2", name: "Bedroom", consumption: 18 },
    { id: "3", name: "Kitchen", consumption: 72 },
    { id: "4", name: "Bathroom", consumption: 12 },
    { id: "5", name: "Office", consumption: 35 },
  ])
  const [isEditing, setIsEditing] = useState(false)
  const [widgets, setWidgets] = useState(initialWidgets)
  const [isDarkMode, setIsDarkMode] = useState(false)
  const [user, setUser] = useState<any>(null)

  useEffect(() => {
    const storedUser = localStorage.getItem("currentUser");
    if (!storedUser) {
      router.push("/auth/login");
      return;
    }

    const currentUser = JSON.parse(storedUser);

    const fetchUserData = async () => {
      try {
        const userResponse = await axios.get(`${API_URL}/api/user/${currentUser.id}`);
        const userData = userResponse.data;

        const permissionsResponse = await axios.get(`${API_URL}/api/permissions/${userData.admin_email}`);
        const permissionsData = permissionsResponse.data;

        const updatedUser = { ...userData, ...currentUser, permissions: permissionsData };
        setUser(updatedUser);
        localStorage.setItem("currentUser", JSON.stringify(updatedUser));
      } catch (error) {
        console.error(error);
      }
    };

    fetchUserData();
  }, [setUser]);
}
```

```
        } catch (error) {
          console.error("Error fetching user data or permissions:", error);
          toast({
            title: "Error",
            description: "Failed to load user data. Please try again.",
            variant: "destructive",
          });
          router.push("/auth/login");
        }
      };

      fetchUserData();
    }, [router]);

    useEffect(() => {
      if (user) {
        const filteredWidgets = initialWidgets.filter((widget) => {
          if (widget.id === "energy" && !user.permissions?.statisticalData) return false;
          if (widget.id === "automation" && !user.permissions?.addAutomation) return false;
          return true;
        });
        setWidgets(filteredWidgets);
      }
    }, [user]);
  }

  const sensors = useSensors(
    useSensor(PointerSensor),
    useSensor(KeyboardSensor, {
      coordinateGetter: sortableKeyboardCoordinates,
    }),
  )
}

function handleDragEnd(event: any) {
  const { active, over } = event

  if (active.id !== over.id) {
    setWidgets((items) => {
      const oldIndex = items.findIndex((item) => item.id === active.id)
      const newIndex = items.findIndex((item) => item.id === over.id)
      return arrayMove(items, oldIndex, newIndex)
    })
  }
}

const containerVariants = {
  hidden: { opacity: 0 },
  visible: {
    opacity: 1,
    transition: {

```

```

        staggerChildren: 0.1,
    },
},
}

const itemVariants = {
    hidden: { y: 20, opacity: 0 },
    visible: {
        y: 0,
        opacity: 1,
    },
}

const handleRequestAccess = (feature: string) => {
    // In a real application, this would send a request to the admin
    toast({
        title: "Access Requested",
        description: `Your request for access to ${feature} has been sent to the
admin.`,
    })
}

if (!user) return null

return (
    <div className={`${`p-6 min-h-screen bg-gray-50 ${isDarkMode ? "bg-gray-900 text-
white" : "bg-gray-50 text-gray-900"}`}>
        <NavigationSidebar /> {/* Add the navbar here */}
        <div className="ml-[72px]">
            <motion.header variants={itemVariants} className="flex justify-between
items-center mb-6">
                <div className="flex items-center gap-4">
                    <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF]
rounded-full flex items-center justify-center shadow-lg">
                        <span className="text-white font-bold text-xl">Sy</span>
                    </div>
                    <div>
                        <h1 className="text-2xl font-bold">Welcome Home, {user.firstName}</h1>
                        <p className="text-sm text-gray-500">Your smart home dashboard</p>
                    </div>
                </div>
                <div className="flex items-center space-x-2">
                    {user.type === "admin" && user.permissions?.addAutomation && (
                        <Button
                            variant="ghost"
                            size="icon"
                            onClick={() => setIsEditing(!isEditing)}
                            className={isEditing ? "bg-blue-100" : ""}
                        >
                            <Edit2 className="h-5 w-5" />
                        </Button>
                    )}
                </div>
            </motion.header>
        </div>
    </div>
)
}

```

```

        <Button variant="ghost" size="icon">
          <Download className="h-5 w-5" />
        </Button>
        <Button variant="ghost" size="icon">
          <Bell className="h-5 w-5" />
        </Button>
        <Button variant="ghost" size="icon">
          <Command className="h-5 w-5" />
        </Button>
        <Button variant="ghost" size="icon">
          <HelpCircle className="h-5 w-5" />
        </Button>
        <Button variant="ghost" size="icon" onClick={() =>
      setIsDarkMode(!isDarkMode)}>
          {isDarkMode ? <Sun className="h-5 w-5" /> : <Moon className="h-5 w-5"
        />}
        </Button>
      </div>
    </motion.header>

    <div className="grid grid-cols-12 gap-6">
      <motion.div variants={itemVariants} className="col-span-12 lg:col-span-8">
        {user.permissions?.roomControl ? (
          <Card className={`mb-6 ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
            <CardHeader>
              <CardTitle>Room Energy Overview</CardTitle>
            </CardHeader>
            <CardContent>
              <RoomEnergyConsumption rooms={rooms} />
            </CardContent>
          </Card>
        ) : (
          <Card className={`mb-6 ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
            <CardContent className="flex flex-col items-center justify-center p-
6">
              <Lock className="w-12 h-12 text-gray-400 mb-4" />
              <h3 className="text-lg font-semibold mb-2">Access Required</h3>
              <p className="text-sm text-gray-500 text-center mb-4">
                You don't have permission to view room control data.
              </p>
              <Button onClick={() => handleRequestAccess("Room
Control")}>Request Access</Button>
            </CardContent>
          </Card>
        )
      <DndContext sensors={sensors} collisionDetection={closestCenter}
onDragEnd={handleDragEnd}>
        <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-4">
          <SortableContext items={widgets.map((w) => w.id)} strategy=
{rectSortingStrategy}>
            {widgets.map((widget) => (
              <SortableWidget key={widget.id} id={widget.id} isEditing=

```

```

{isEditing}>
    <Card className={`${h-full ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
        <CardContent className="p-4">
            {/* Pass user_id or household_id to components needing
            user-specific data */}
            <widget.component userId={user.id} householdId=
            {user.household_id} />
        </CardContent>
        <Card>
            </SortableWidget>
        ))}
    </SortableContext>
</div>
</DndContext>
</motion.div>
<motion.div variants={itemVariants} className="col-span-12 lg:col-span-4">
    <Card className={`${h-full ${isDarkMode ? "bg-gray-800" : "bg-white"}`}>
        <CardHeader>
            <CardTitle>Family Members</CardTitle>
        </CardHeader>
        <CardContent>
            <FamilyMembers />
        </CardContent>
    </Card>
    </motion.div>
</div>
</div>
</div>
)
}

```

## app/dashboard/page.tsx.bak.bak

```

// dashboard/page.tsx
// NOTE: This is a working copy
"use client"

import { useState, useEffect } from 'react';
import { useUser } from '@/contexts/UserContext';
import ProtectedRoute from '@/components/ProtectedRoute';
import { Button } from '@/components/ui/button';

export default function Dashboard() {
    const { user, logout } = useUser();
    const [greeting, setGreeting] = useState('');

    useEffect(() => {
        const hours = new Date().getHours();
        if (hours < 12) {

```

```

        setGreeting('Good morning');
    } else if (hours < 18) {
        setGreeting('Good afternoon');
    } else {
        setGreeting('Good evening');
    }
}, []);

return (
<ProtectedRoute>
<div className="container mx-auto p-6">
    <div className="flex justify-between items-center mb-8">
        <h1 className="text-3xl font-bold">Dashboard</h1>
        <Button
            variant="outline"
            onClick={logout}
            className="px-4 py-2"
        >
            Logout
        </Button>
    </div>

    <div className="bg-white rounded-lg shadow-md p-6 mb-6">
        <h2 className="text-xl font-semibold mb-4">{greeting}, {user?.email}</h2>
        <p className="text-gray-600">Welcome to your Smart Home Dashboard.</p>
    </div>

    /* Sample dashboard content */
    <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
        <div className="bg-white rounded-lg shadow-md p-6">
            <h3 className="font-semibold mb-2">Energy Usage</h3>
            <p className="text-gray-600">View your energy consumption statistics</p>
        </div>

        <div className="bg-white rounded-lg shadow-md p-6">
            <h3 className="font-semibold mb-2">Device Management</h3>
            <p className="text-gray-600">Control your connected devices</p>
        </div>

        <div className="bg-white rounded-lg shadow-md p-6">
            <h3 className="font-semibold mb-2">Profiles</h3>
            <p className="text-gray-600">Manage family member profiles</p>
        </div>
    </div>
</ProtectedRoute>
);
}

```

## app/devices/page.tsx

```

// devices/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Slider } from "@/components/ui/slider"
import { Lightbulb, Thermometer, Fan, Tv, Lock, Plus, Smartphone, Edit, Trash2 } from "lucide-react"
import Link from "next/link"
import { motion } from "framer-motion"
import { Dialog,DialogContent,DialogHeader,DialogTitle,DialogFooter } from "@/components/ui/dialog"
import { Label } from "@/components/ui/label"
import { Input } from "@/components/ui/input"
import { NavigationSidebar } from "@app/components/navigation-sidebar"; // Import the navbar

interface Device {
  id: string
  name: string
  type: string
  room: string
  status: "on" | "off"
  brightness?: number
  temperature?: number
  speed?: number
  powerConsumption?: number
  totalEnergyConsumed?: number
  lastStatusChange?: number
}

const deviceIcons = {
  light: Lightbulb,
  thermostat: Thermometer,
  fan: Fan,
  tv: Tv,
  lock: Lock,
}

const Icon = ({ type }: { type: string }) => {
  const IconComponent = deviceIcons[type as keyof typeof deviceIcons] || null

  if (!IconComponent) {
    return null;
  }

  return <IconComponent className="h-6 w-6" />
}

```

```

}

export default function DevicesPage() {
  const [devices, setDevices] = useState<Device[]>([])
  const [editingDevice, setEditingDevice] = useState<Device | null>(null)

  useEffect(() => {
    const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]")
    setDevices(storedDevices)
  }, [])

  const updateDevice = (id: string, updates: Partial<Device>) => {
    const updatedDevices = devices.map((device) => {
      if (device.id === id) {
        const newDevice = { ...device, ...updates }

        if (updates.status !== undefined && updates.status !== device.status) {
          const now = Date.now()
          const timeOn = (now - (device.lastStatusChange || now)) / (1000 * 60 * 60)
          // hours
          if (device.status === "on") {
            newDevice.totalEnergyConsumed =
              (newDevice.totalEnergyConsumed || 0) + ((device.powerConsumption || 0) / 1000) * timeOn
          }
          newDevice.lastStatusChange = now
        }
      }
      return newDevice
    })
    return device
  })
  setDevices(updatedDevices)
  localStorage.setItem("devices", JSON.stringify(updatedDevices))
}

const deleteDevice = (id: string) => {
  if (window.confirm("Are you sure you want to delete this device?")) {
    const updatedDevices = devices.filter((device) => device.id !== id)
    setDevices(updatedDevices)
    localStorage.setItem("devices", JSON.stringify(updatedDevices))
  }
}

const handleEditDevice = (device: Device) => {
  setEditingDevice(device)
}

const saveEditedDevice = () => {
  if (editingDevice) {
    const updatedDevices = devices.map((device) => (device.id === editingDevice.id ? editingDevice : device))
  }
}

```

```

        setDevices(updatedDevices)
        localStorage.setItem("devices", JSON.stringify(updatedDevices))
        setEditingDevice(null)
    }
}

const renderDeviceControls = (device: Device) => {
    switch (device.type) {
        case "light":
            return (
                <div className="space-y-4">
                    <div className="flex items-center justify-between">
                        <span>Power</span>
                        <Switch
                            checked={device.status === "on"}
                            onCheckedChange={(checked) => updateDevice(device.id, { status: checked ? "on" : "off" })}>
                        />
                    </div>
                    {device.status === "on" && (
                        <div className="space-y-2">
                            <span>Brightness</span>
                            <Slider
                                value={[device.brightness || 100]}
                                onValueChange={[value] => updateDevice(device.id, { brightness: value })}>
                                max={100}
                                step={1}
                            />
                        </div>
                    )}
                </div>
            )
        case "thermostat":
            return (
                <div className="space-y-4">
                    <div className="flex items-center justify-between">
                        <span>Power</span>
                        <Switch
                            checked={device.status === "on"}
                            onCheckedChange={(checked) => updateDevice(device.id, { status: checked ? "on" : "off" })}>
                        />
                    </div>
                    {device.status === "on" && (
                        <div className="space-y-2">
                            <span>Temperature (°C)</span>
                            <Slider
                                value={[device.temperature || 22]}
                                onValueChange={[value] => updateDevice(device.id, { temperature: value })}>
                                min={16}
                            />
                        </div>
                    )}
                </div>
            )
    }
}

```

```

        max={30}
        step={0.5}
    />
  </div>
)
)
</div>
)
case "fan":
return (
  <div className="space-y-4">
    <div className="flex items-center justify-between">
      <span>Power</span>
      <Switch
        checked={device.status === "on"}
        onCheckedChange={(checked) => updateDevice(device.id, { status:
checked ? "on" : "off" })}>
      />
    </div>
    {device.status === "on" && (
      <div className="space-y-2">
        <span>Speed</span>
        <Slider
          value={[device.speed || 1]}
          onValueChange={[value] => updateDevice(device.id, { speed: value
})}>
          min={1}
          max={5}
          step={1}
        />
      </div>
    )
    </div>
  )
default:
return (
  <div className="flex items-center justify-between">
    <span>Power</span>
    <Switch
      checked={device.status === "on"}
      onCheckedChange={(checked) => updateDevice(device.id, { status:
checked ? "on" : "off" })}>
    />
  </div>
)
}
}

return (
  <div className="min-h-screen bg-gray-50 flex">
    <NavigationSidebar /> {/* Add the navbar here */}
    <div className="flex-1 ml-[72px]">
      <motion.div>

```

```

    initial={{ opacity: 0, y: 20 }}
    animate={{ opacity: 1, y: 0 }}
    transition={{ duration: 0.5 }}
    className="p-6"
  >
  <motion.header
    initial={{ opacity: 0, y: -20 }}
    animate={{ opacity: 1, y: 0 }}
    transition={{ duration: 0.5 }}
    className="flex justify-between items-center mb-6"
  >
    <div className="flex items-center gap-2">
      <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
        <Smartphone className="h-6 w-6 text-white" />
      </div>
      <div>
        <h1 className="text-2xl font-bold text-gray-800">Devices</h1>
        <p className="text-sm text-gray-500">Manage and control your smart
        devices</p>
      </div>
    </div>
    <div>
      {devices.length > 0 && (
        <Link href="/add-device">
          <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90">
            <Plus className="mr-2 h-4 w-4" /> Add Device
          </Button>
        </Link>
      )}
    </div>
  </motion.header>

  <motion.div
    initial={{ opacity: 0 }}
    animate={{ opacity: 1 }}
    transition={{ delay: 0.2 }}
    className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4
gap-6"
  >
    {devices.length === 0 ? (
      <Card className="col-span-full p-6 text-center">
        <div className="flex flex-col items-center justify-center space-y-4">
          <div className="rounded-full bg-blue-100 p-3">
            <Smartphone className="h-8 w-8 text-[#00B2FF]" />
          </div>
          <div className="space-y-2">
            <h3 className="font-semibold text-lg">No devices added yet</h3>
            <p className="text-muted-foreground">Get started by adding your
            first smart device</p>
          </div>
          <Link href="/add-device">
            <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90">

```

```

        <Plus className="mr-2 h-4 w-4" /> Add Your First Device
    </Button>
</Link>
</div>
</Card>
) : (
    devices.map((device) => (
        <motion.div
            key={device.id}
            initial={{ opacity: 0, y: 20 }}
            animate={{ opacity: 1, y: 0 }}
            transition={{ duration: 0.3 }}
        >
            <Card className="overflow-hidden">
                <CardHeader className="bg-gradient-to-r from-[#00B2FF] to-[#0085FF] text-white p-4">
                    <CardTitle className="flex items-center justify-between">
                        <span className="text-lg font-semibold">{device.name}</span>
                        <Icon type={device.type} />
                    </CardTitle>
                    <p className="text-sm opacity-80">{device.room}</p>
                </CardHeader>
                <CardContent className="p-4">
                    <div className="space-y-4">
                        <div className="flex items-center justify-between">
                            <span className="text-sm font-medium text-gray-500">Status</span>
                            <span
                                className={`text-sm font-medium ${device.status === "on"
? "text-green-500" : "text-red-500"}`}
                            >
                                {device.status === "on" ? "On" : "Off"}
                            </span>
                        </div>
                        {renderDeviceControls(device)}
                        {device.powerConsumption && (
                            <div className="flex items-center justify-between text-sm">
                                <span className="text-gray-500">Power Consumption</span>
                                <span className="font-medium">{device.powerConsumption} W</span>
                            </div>
                        )}
                        {device.totalEnergyConsumed && (
                            <div className="flex items-center justify-between text-sm">
                                <span className="text-gray-500">Total Energy Consumed</span>
                                <span className="font-medium">
{device.totalEnergyConsumed.toFixed(2)} kWh</span>
                            </div>
                        )}
                    </div>
                </CardContent>
            </Card>
        </motion.div>
    )
)

```

```

        <div className="flex justify-end space-x-2 mt-4">
            <Button variant="outline" size="sm" onClick={() =>
handleEditDevice(device)}>
                <Edit className="w-4 h-4" />
            </Button>
            <Button variant="outline" size="sm" onClick={() =>
deleteDevice(device.id)}>
                <Trash2 className="w-4 h-4" />
            </Button>
        </div>
    </CardContent>
</Card>
</motion.div>
))
)
)
</motion.div>
</div>
</div>
)
}
}

```

## app/devices/page.tsx.bak

```

"use client"

import { useState, useEffect } from "react"
import { Card, CardHeader, CardTitle,CardContent } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Slider } from "@/components/ui/slider"
import { Lightbulb, Thermometer, Fan, Tv, Lock, Plus, Smartphone, Edit, Trash2 } from "lucide-react"
import Link from "next/link"
import { motion } from "framer-motion"
import { Dialog,DialogContent,DialogHeader,DialogTitle,DialogFooter } from "@/components/ui/dialog"
import { Label } from "@/components/ui/label"
import { Input } from "@/components/ui/input"
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import the navbar

interface Device {
    id: string
    name: string
    type: string
}
```

```

room: string
status: "on" | "off"
brightness?: number
temperature?: number
speed?: number
powerConsumption?: number
totalEnergyConsumed?: number
lastStatusChange?: number
}

const deviceIcons = {
  light: Lightbulb,
  thermostat: Thermometer,
  fan: Fan,
  tv: Tv,
  lock: Lock,
}

const Icon = ({ type }: { type: string }) => {
  const IconComponent = deviceIcons[type as keyof typeof deviceIcons] || null
  return <IconComponent className="h-6 w-6" />
}

export default function DevicesPage() {
  const [devices, setDevices] = useState<Device[]>([])
  const [editingDevice, setEditingDevice] = useState<Device | null>(null)

  useEffect(() => {
    const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]")
    setDevices(storedDevices)
  }, [])

  const updateDevice = (id: string, updates: Partial<Device>) => {
    const updatedDevices = devices.map((device) => {
      if (device.id === id) {
        const newDevice = { ...device, ...updates }

        if (updates.status !== undefined && updates.status !== device.status) {
          const now = Date.now()
          const timeOn = (now - (device.lastStatusChange || now)) / (1000 * 60 * 60)
          // hours
          if (device.status === "on") {
            newDevice.totalEnergyConsumed =
              (newDevice.totalEnergyConsumed || 0) + ((device.powerConsumption || 0) / 1000) * timeOn
          }
          newDevice.lastStatusChange = now
        }

        return newDevice
      }
      return device
    })
  }
}

```

```
})
setDevices(updatedDevices)
localStorage.setItem("devices", JSON.stringify(updatedDevices))
}

const deleteDevice = (id: string) => {
  if (window.confirm("Are you sure you want to delete this device?")) {
    const updatedDevices = devices.filter((device) => device.id !== id)
    setDevices(updatedDevices)
    localStorage.setItem("devices", JSON.stringify(updatedDevices))
  }
}

const handleEditDevice = (device: Device) => {
  setEditingDevice(device)
}

const saveEditedDevice = () => {
  if (editingDevice) {
    const updatedDevices = devices.map((device) => (device.id === editingDevice.id
? editingDevice : device))
    setDevices(updatedDevices)
    localStorage.setItem("devices", JSON.stringify(updatedDevices))
    setEditingDevice(null)
  }
}

const renderDeviceControls = (device: Device) => {
  switch (device.type) {
    case "light":
      return (
        <div className="space-y-4">
          <div className="flex items-center justify-between">
            <span>Power</span>
            <Switch
              checked={device.status === "on"}
              onCheckedChange={(checked) => updateDevice(device.id, { status:
checked ? "on" : "off" })}
            />
          </div>
          {device.status === "on" && (
            <div className="space-y-2">
              <span>Brightness</span>
              <Slider
                value={[device.brightness || 100]}
                onValueChange={[value] => updateDevice(device.id, { brightness:
value })}
                max={100}
                step={1}
              />
            </div>
          )}
        </div>
      )
    }
  }
}
```

```

        </div>
    )
case "thermostat":
    return (
        <div className="space-y-4">
            <div className="flex items-center justify-between">
                <span>Power</span>
                <Switch
                    checked={device.status === "on"}
                    onCheckedChange={({checked}) => updateDevice(device.id, { status: checked ? "on" : "off" })}>
                />
            </div>
            {device.status === "on" && (
                <div className="space-y-2">
                    <span>Temperature (°C)</span>
                    <Slider
                        value={[device.temperature || 22]}
                        onValueChange={({value}) => updateDevice(device.id, { temperature: value })}>
                            min={16}
                            max={30}
                            step={0.5}
                        />
                </div>
            )}
        </div>
    )
case "fan":
    return (
        <div className="space-y-4">
            <div className="flex items-center justify-between">
                <span>Power</span>
                <Switch
                    checked={device.status === "on"}
                    onCheckedChange={({checked}) => updateDevice(device.id, { status: checked ? "on" : "off" })}>
                />
            </div>
            {device.status === "on" && (
                <div className="space-y-2">
                    <span>Speed</span>
                    <Slider
                        value={[device.speed || 1]}
                        onValueChange={({value}) => updateDevice(device.id, { speed: value })}>
                            min={1}
                            max={5}
                            step={1}
                        />
                </div>
            )}
        </div>
    )

```

```

        </div>
    )
default:
    return (
        <div className="flex items-center justify-between">
            <span>Power</span>
            <Switch
                checked={device.status === "on"}
                onCheckedChange={(checked) => updateDevice(device.id, { status:
checked ? "on" : "off" })}
            />
        </div>
    )
}

return (
    <div className="min-h-screen bg-gray-50 flex">
        <NavigationSidebar /> {/* Add the navbar here */}
        <div className="flex-1 ml-[72px]">
            <motion.div
                initial={{ opacity: 0, y: 20 }}
                animate={{ opacity: 1, y: 0 }}
                transition={{ duration: 0.5 }}
                className="p-6"
            >
                <motion.header
                    initial={{ opacity: 0, y: -20 }}
                    animate={{ opacity: 1, y: 0 }}
                    transition={{ duration: 0.5 }}
                    className="flex justify-between items-center mb-6"
                >
                    <div className="flex items-center gap-2">
                        <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
                            <Smartphone className="h-6 w-6 text-white" />
                        </div>
                        <div>
                            <h1 className="text-2xl font-bold text-gray-800">Devices</h1>
                            <p className="text-sm text-gray-500">Manage and control your smart
devices</p>
                        </div>
                    </div>
                </motion.header>
                {devices.length > 0 &&
                    <Link href="/add-device">
                        <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90">
                            <Plus className="mr-2 h-4 w-4" /> Add Device
                        </Button>
                    </Link>
                }
            </motion.div>
        </div>
    </div>
)

```

```

<motion.div
  initial={{ opacity: 0 }}
  animate={{ opacity: 1 }}
  transition={{ delay: 0.2 }}
  className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4
gap-6"
>
  {devices.length === 0 ? (
    <Card className="col-span-full p-6 text-center">
      <div className="flex flex-col items-center justify-center space-y-
4">
        <div className="rounded-full bg-blue-100 p-3">
          <Smartphone className="h-8 w-8 text-[#00B2FF]" />
        </div>
        <div className="space-y-2">
          <h3 className="font-semibold text-lg">No devices added yet</h3>
          <p className="text-muted-foreground">Get started by adding your
first smart device</p>
        </div>
        <Link href="/add-device">
          <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90">
            <Plus className="mr-2 h-4 w-4" /> Add Your First Device
          </Button>
        </Link>
      </div>
    </Card>
  ) : (
    devices.map((device) => (
      <motion.div
        key={device.id}
        initial={{ opacity: 0, y: 20 }}
        animate={{ opacity: 1, y: 0 }}
        transition={{ duration: 0.3 }}
      >
        <Card className="overflow-hidden">
          <CardHeader className="bg-gradient-to-r from-[#00B2FF] to-
[#0085FF] text-white p-4">
            <CardTitle className="flex items-center justify-between">
              <span className="text-lg font-semibold">{device.name}</span>
              <Icon type={device.type} />
            </CardTitle>
            <p className="text-sm opacity-80">{device.room}</p>
          </CardHeader>
          <CardContent className="p-4">
            <div className="space-y-4">
              <div className="flex items-center justify-between">
                <span className="text-sm font-medium text-gray-
500">Status</span>
                <span
                  className={`text-sm font-medium ${device.status === "on"
? "text-green-500" : "text-red-500"}`}
                >

```

```

        {device.status === "on" ? "On" : "Off"}
    </span>
</div>
{renderDeviceControls(device)}
{device.powerConsumption && (
    <div className="flex items-center justify-between text-
sm">
        <span className="text-gray-500">Power Consumption</span>
        <span className="font-medium">{device.powerConsumption}</span>
    </div>
)
{device.totalEnergyConsumed && (
    <div className="flex items-center justify-between text-
sm">
        <span className="text-gray-500">Total Energy Consumed</span>
        <span className="font-medium">
            {device.totalEnergyConsumed.toFixed(2)} kWh
        </span>
    </div>
)
<div className="flex justify-end space-x-2 mt-4">
    <Button variant="outline" size="sm" onClick={() =>
handleEditDevice(device)}>
        <Edit className="w-4 h-4" />
    </Button>
    <Button variant="outline" size="sm" onClick={() =>
deleteDevice(device.id)}>
        <Trash2 className="w-4 h-4" />
    </Button>
</div>
</div>
</CardContent>
</Card>
</motion.div>
))
)
}
</motion.div>
</div>
</div>
)
}
}

```

## app/layout.tsx

```

import type { Metadata } from "next";
import { Inter } from "next/font/google";
import "./globals.css";

```

```

import type React from "react";
import { Toaster } from "@/components/ui/toaster";
import { UserProvider } from "@/contexts/UserContext";

const inter = Inter({ subsets: ["latin"] });

export const metadata: Metadata = {
  title: "Smart Home Dashboard",
  description: "Smart home control and monitoring system",
  generator: "Sync Studios",
};

export default function RootLayout({ children }: { children: React.ReactNode }) {
  return (
    <html lang="en">
      <head>
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
      </head>
      <body className={inter.className}>
        <UserProvider>
          {children}
          <Toaster />
        </UserProvider>
      </body>
    </html>
  );
}

```

## app/layout.tsx.bak

```

import type { Metadata } from "next";
import { Inter } from "next/font/google";
import "./globals.css";
import type React from "react";
import { Toaster } from "@/components/ui/toaster";

const inter = Inter({ subsets: ["latin"] });

export const metadata: Metadata = {
  title: "Smart Home Dashboard",
  description: "Smart home control and monitoring system",
  generator: "Sync Studios",
};

export default function RootLayout({ children }: { children: React.ReactNode }) {
  return (
    <html lang="en">
      <head>
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
      </head>

```

```

        <body className={inter.className}>
          {children}
          <Toaster />
        </body>
      </html>
    );
}

```

## app/manage-profiles/[id]/access/page.tsx

```

// manage-profiles/[id]/access/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { motion } from "framer-motion"
import { ArrowLeft, Bell, Zap, Clock, BarChart2, Database, History, Smartphone } from "lucide-react"
import { useRouter } from "next/navigation"

interface FamilyMember {
  id: string
  name: string
  email: string
  role: string
  permissions?: {
    notifications: boolean
    energyAlerts: boolean
    addAutomation: boolean
    realTimeMonitoring: boolean
    analyticalData: boolean
    historicalData: boolean
    deviceControl: boolean
  }
}

export default function ManageProfileAccessPage({ params }: { params: { id: string } }) {
  const router = useRouter()
  const [member, setMember] = useState<FamilyMember | null>(null)
  const [permissions, setPermissions] = useState({
    notifications: true,
    energyAlerts: true,
    addAutomation: false,
    realTimeMonitoring: true,
    analyticalData: false,
    historicalData: false,
    deviceControl: true,
  })
}

```

```

    })

useEffect(() => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const member = storedMembers.find((m: FamilyMember) => m.id === params.id)
  if (member) {
    setMember(member)
    if (member.permissions) {
      setPermissions(member.permissions)
    }
  }
}, [params.id])

const handleSaveChanges = () => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const updatedMembers = storedMembers.map((m: FamilyMember) => {
    if (m.id === params.id) {
      return {
        ...m,
        permissions,
      }
    }
    return m
  })
  localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
  router.push("/manage-profiles")
}

if (!member) return null

return (
  <div className="p-6 min-h-screen bg-gradient-to-br from-gray-50 to-gray-100">
    <motion.div initial={{ opacity: 0, y: -20 }} animate={{ opacity: 1, y: 0 }}>
      <transition duration={0.5}>
        <header className="flex justify-between items-center mb-8">
          <div className="flex items-center gap-4">
            <Button variant="ghost" size="icon" onClick={() => router.back()}>
              <ArrowLeft className="h-6 w-6" />
            </Button>
            <div>
              <h1 className="text-2xl font-bold text-gray-800">Manage Access</h1>
              <p className="text-sm text-gray-500">
                {member.name} • {member.role}
              </p>
            </div>
          </div>
        </header>
      </transition>
    </motion.div>

    <div className="grid gap-6 max-w-2xl mx-auto">
      <motion.div initial={{ opacity: 0, y: 20 }} animate={{ opacity: 1, y: 0 }}>
        <transition duration={0.5}>

```

```

<Card>
  <CardHeader>
    <CardTitle>Access Permissions</CardTitle>
  </CardHeader>
  <CardContent className="space-y-6">
    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <Bell className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Notifications</p>
          <p className="text-sm text-gray-500">Receive system
            notifications</p>
        </div>
      </div>
      <Switch
        checked={permissions.notifications}
        onChange={(checked) => setPermissions({ ...permissions,
          notifications: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>

    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <Zap className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Energy Alerts</p>
          <p className="text-sm text-gray-500">Receive energy consumption
            alerts</p>
        </div>
      </div>
      <Switch
        checked={permissions.energyAlerts}
        onChange={(checked) => setPermissions({ ...permissions,
          energyAlerts: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>

    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <Clock className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Add Automation</p>
          <p className="text-sm text-gray-500">Create and modify
            automations</p>
        </div>
      </div>
      <Switch
        checked={permissions.addAutomation}
        onChange={(checked) => setPermissions({ ...permissions,
          addAutomation: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>
  </CardContent>

```

```

        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>

    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <BarChart2 className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Real Time Monitoring</p>
          <p className="text-sm text-gray-500">View live device status</p>
        </div>
      </div>
      <Switch
        checked={permissions.realTimeMonitoring}
        onCheckedChange={(checked) => setPermissions({ ...permissions,
realTimeMonitoring: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>

    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <Database className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Analytical Data</p>
          <p className="text-sm text-gray-500">Access usage analytics</p>
        </div>
      </div>
      <Switch
        checked={permissions.analyticalData}
        onCheckedChange={(checked) => setPermissions({ ...permissions,
analyticalData: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>

    <div className="flex items-center justify-between">
      <div className="flex items-center gap-3">
        <History className="h-5 w-5 text-[#00B2FF]" />
        <div>
          <p className="font-medium">Historical Data</p>
          <p className="text-sm text-gray-500">View past usage data</p>
        </div>
      </div>
      <Switch
        checked={permissions.historicalData}
        onCheckedChange={(checked) => setPermissions({ ...permissions,
historicalData: checked })}>
        className="data-[state=checked]:bg-[#00B2FF]"
      />
    </div>
  
```

```

        <div className="flex items-center justify-between">
          <div className="flex items-center gap-3">
            <Smartphone className="h-5 w-5 text-[#00B2FF]" />
            <div>
              <p className="font-medium">Device Control</p>
              <p className="text-sm text-gray-500">Control smart devices</p>
            </div>
          </div>
          <Switch
            checked={permissions.deviceControl}
            onCheckedChange={(checked) => setPermissions({ ...permissions,
deviceControl: checked })}>
            className="data-[state=checked]:bg-[#00B2FF]"
          />
        </div>
      </CardContent>
    </Card>
  </motion.div>

  <motion.div initial={{ opacity: 0, y: 20 }} animate={{ opacity: 1, y: 0 }} transition={{ delay: 0.2 }}>
    <Button className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90" onClick={handleSaveChanges}>
      Save Changes
    </Button>
  </motion.div>
</div>
</div>
)
}
}

```

## app/manage-profiles/[id]/details/page.tsx

```

// manage-profiles/[id]/details/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import { motion } from "framer-motion"
import { ArrowLeft, User, Key, Trash2, Mail } from "lucide-react"
import { useRouter } from "next/navigation"
import {
  Dialog,
  DialogContent,
  DialogDescription,
  DialogFooter,

```

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

interface FamilyMember {
  id: string
  name: string
  email: string
  role: string
  pin?: string
}

export default function ManageProfileDetailsPage({ params }: { params: { id: string } }) {
  const router = useRouter()
  const [member, setMember] = useState<FamilyMember | null>(null)
  const [isChangePinOpen, setIsChangePinOpen] = useState(false)
  const [newPin, setNewPin] = useState(["", "", "", ""])
  const [formData, setFormData] = useState({
    name: "",
    email: "",
    role: "",
  })
  useEffect(() => {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    const member = storedMembers.find((m: FamilyMember) => m.id === params.id)
    if (member) {
      setMember(member)
      setFormData({
        name: member.name,
        email: member.email,
        role: member.role,
      })
    }
  }, [params.id])

  const handlePinChange = (index: number, value: string) => {
    if (value.length > 1) return
    const newPinArray = [...newPin]
    newPinArray[index] = value
    setNewPin(newPinArray)

    if (value !== "" && index < 3) {
      const nextInput = document.getElementById(`pin-${index + 1}`)
      nextInput?.focus()
    }
  }
}
```

```

const handleSaveChanges = () => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const updatedMembers = storedMembers.map((m: FamilyMember) => {
    if (m.id === params.id) {
      return {
        ...m,
        ...formData,
      }
    }
    return m
  })
  localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
  router.push("/manage-profiles")
}

const handleSavePin = () => {
  const pin = newPin.join("")
  if (pin.length === 4) {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    const updatedMembers = storedMembers.map((m: FamilyMember) => {
      if (m.id === params.id) {
        return {
          ...m,
          pin,
        }
      }
      return m
    })
    localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
    setIsChangePinOpen(false)
    setNewPin(["", "", "", ""])
  }
}

const handleDeleteProfile = () => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const updatedMembers = storedMembers.filter((m: FamilyMember) => m.id !==
params.id)
  localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
  router.push("/manage-profiles")
}

if (!member) return null

return (
<div className="p-6 min-h-screen bg-gradient-to-br from-gray-50 to-gray-100">
  <motion.div initial={{ opacity: 0, y: -20 }} animate={{ opacity: 1, y: 0 }}>
    <header className="flex justify-between items-center mb-8">
      <div className="flex items-center gap-4">
        <Button variant="ghost" size="icon" onClick={() => router.back()}>

```

```

        <ArrowLeft className="h-6 w-6" />
    </Button>
    <div>
        <h1 className="text-2xl font-bold text-gray-800">Manage Details</h1>
        <p className="text-sm text-gray-500">
            {member.name} • {member.role}
        </p>
    </div>
</div>
</header>
</motion.div>

<div className="grid gap-6 max-w-2xl mx-auto">
    <motion.div initial={{ opacity: 0, y: 20 }} animate={{ opacity: 1, y: 0 }} transition={{ duration: 0.5 }}>
        <Card>
            <CardHeader>
                <CardTitle>Profile Information</CardTitle>
            </CardHeader>
            <CardContent className="space-y-6">
                <div className="space-y-2">
                    <Label>Name</Label>
                    <div className="flex gap-2">
                        <div className="relative flex-1">
                            <Input
                                value={formData.name}
                                onChange={(e) => setFormData({ ...formData, name: e.target.value })}
                                className="pl-10"
                            />
                            <User className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5 text-gray-400" />
                        </div>
                    </div>
                </div>

                <div className="space-y-2">
                    <Label>Email</Label>
                    <div className="relative">
                        <Input
                            value={formData.email}
                            onChange={(e) => setFormData({ ...formData, email: e.target.value })}
                            className="pl-10"
                        />
                        <Mail className="absolute left-3 top-1/2 -translate-y-1/2 h-5 w-5 text-gray-400" />
                    </div>
                </div>

                <div className="space-y-2">
                    <Label>Role</Label>

```

```

        <Select value={formData.role} onChange={(value) =>
setFormData({ ...formData, role: value })}>
    <SelectTrigger>
        <SelectValue />
    </SelectTrigger>
    <SelectContent>
        <SelectItem value="adult">Adult</SelectItem>
        <SelectItem value="child">Child</SelectItem>
        <SelectItem value="admin">Admin</SelectItem>
    </SelectContent>
</Select>
</div>
</CardContent>
</Card>
</motion.div>

<motion.div
    initial={{ opacity: 0, y: 20 }}
    animate={{ opacity: 1, y: 0 }}
    transition={{ delay: 0.2 }}
    className="flex gap-4"
>
    <Dialog open={isChangePinOpen} onOpenChange={setIsChangePinOpen}>
        <DialogTrigger asChild>
            <Button variant="outline" className="flex-1">
                <Key className="w-4 h-4 mr-2" />
                Change PIN
            </Button>
        </DialogTrigger>
        <DialogContent>
            <DialogHeader>
                <DialogTitle>Change PIN</DialogTitle>
                <DialogDescription>Enter a new 4-digit PIN for this profile.</DialogDescription>
            </DialogHeader>
            <div className="flex justify-center gap-4 py-4">
                {[0, 1, 2, 3].map((i) => (
                    <Input
                        key={i}
                        id={`pin-${i}`}
                        type="text"
                        inputMode="numeric"
                        pattern="[0-9]*"
                        maxLength={1}
                        className="w-16 h-16 text-2xl text-center"
                        value={newPin[i]}
                        onChange={(e) => handlePinChange(i, e.target.value)}
                        onKeyDown={(e) => {
                            if (e.key === "Backspace" && !newPin[i] && i > 0) {
                                const prevInput = document.getElementById(`pin-${i - 1}`)
                                prevInput?.focus()
                            }
                        }}
                    >
                ))
            </div>
        </DialogContent>
    </Dialog>

```

```

        }
      />
    ))}
  </div>
  <DialogFooter>
    <Button
      onClick={handleSavePin}
      disabled={newPin.some((digit) => !digit)}
      className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90"
    >
      Save PIN
    </Button>
  </DialogFooter>
</DialogContent>
</Dialog>

<Button variant="destructive" className="flex-1" onClick={handleDeleteProfile}>
  <Trash2 className="w-4 h-4 mr-2" />
  Delete Profile
</Button>

<Button className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90" onClick={handleSaveChanges}>
  Save Changes
</Button>
</motion.div>
</div>
</div>
)
}

```

## app/manage-profiles/[id]/page.tsx

```

// manage-profiles/[id]/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card,CardContent,CardHeader,CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Switch } from "@/components/ui/switch"
import { Input } from "@/components/ui/input"
import { motion } from "framer-motion"
import { ArrowLeft, Bell, Zap, Clock, BarChart2, Database, History, Smartphone, Trash2, Key } from "lucide-react"
import { useRouter } from "next/navigation"
import {
  Dialog,
  DialogContent,

```

```

DialogDescription,
DialogFooter,
DialogHeader,
DialogTitle,
DialogTrigger,
} from "@/components/ui/dialog"

interface FamilyMember {
  id: string
  name: string
  email: string
  role: string
  permissions?: {
    notifications: boolean
    energyAlerts: boolean
    addAutomation: boolean
    realTimeMonitoring: boolean
    analyticalData: boolean
    historicalData: boolean
    deviceControl: boolean
  }
  pin?: string
}

export default function ManageProfilePage({ params }: { params: { id: string } }) {
  const router = useRouter()
  const [member, setMember] = useState<FamilyMember | null>(null)
  const [permissions, setPermissions] = useState({
    notifications: true,
    energyAlerts: true,
    addAutomation: false,
    realTimeMonitoring: true,
    analyticalData: false,
    historicalData: false,
    deviceControl: true,
  })
  const [isChangePinOpen, setIsChangePinOpen] = useState(false)
  const [newPin, setNewPin] = useState(["", "", "", ""])

  useEffect(() => {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    const member = storedMembers.find((m: FamilyMember) => m.id === params.id)
    if (member) {
      setMember(member)
      if (member.permissions) {
        setPermissions(member.permissions)
      }
    }
  }, [params.id])

  const handlePinChange = (index: number, value: string) => {
    if (value.length > 1) return

```

```

const newPinArray = [...newPin]
newPinArray[index] = value
setNewPin(newPinArray)

if (value !== "" && index < 3) {
  const nextInput = document.getElementById(`pin-${index + 1}`)
  nextInput?.focus()
}
}

const handleSaveChanges = () => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const updatedMembers = storedMembers.map((m: FamilyMember) => {
    if (m.id === params.id) {
      return {
        ...m,
        permissions,
      }
    }
    return m
  })
  localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
  router.push("/manage-profiles")
}

const handleSavePin = () => {
  const pin = newPin.join("")
  if (pin.length === 4) {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    const updatedMembers = storedMembers.map((m: FamilyMember) => {
      if (m.id === params.id) {
        return {
          ...m,
          pin,
        }
      }
      return m
    })
    localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
    setIsChangePinOpen(false)
    setNewPin(["", "", "", ""])
  }
}

const handleDeleteProfile = () => {
  const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
  const updatedMembers = storedMembers.filter((m: FamilyMember) => m.id !==
params.id)
  localStorage.setItem("familyMembers", JSON.stringify(updatedMembers))
  router.push("/manage-profiles")
}

```

```

if (!member) return null

return (
  <div className="p-6 min-h-screen bg-gradient-to-br from-gray-50 to-gray-100">
    <motion.div initial={{ opacity: 0, y: -20 }} animate={{ opacity: 1, y: 0 }}
    transition={{ duration: 0.5 }}>
      <header className="flex justify-between items-center mb-8">
        <div className="flex items-center gap-4">
          <Button variant="ghost" size="icon" onClick={() => router.back()}>
            <ArrowLeft className="h-6 w-6" />
          </Button>
          <div>
            <h1 className="text-2xl font-bold text-gray-800">Manage Access</h1>
            <p className="text-sm text-gray-500">
              {member.name} • {member.role}
            </p>
          </div>
        </div>
      </header>
    </motion.div>

    <div className="grid gap-6">
      <motion.div initial={{ opacity: 0, y: 20 }} animate={{ opacity: 1, y: 0 }}
      transition={{ duration: 0.5 }}>
        <Card>
          <CardHeader>
            <CardTitle>Access Permissions</CardTitle>
          </CardHeader>
          <CardContent className="space-y-6">
            <div className="flex items-center justify-between">
              <div className="flex items-center gap-3">
                <Bell className="h-5 w-5 text-[#00B2FF]" />
                <div>
                  <p className="font-medium">Notifications</p>
                  <p className="text-sm text-gray-500">Receive system
                  notifications</p>
                </div>
              </div>
              <Switch
                checked={permissions.notifications}
                onCheckedChange={(checked) => setPermissions({ ...permissions,
                notifications: checked })}>
                className="data-[state=checked]:bg-[#00B2FF]"
              />
            </div>
            <div className="flex items-center justify-between">
              <div className="flex items-center gap-3">
                <Zap className="h-5 w-5 text-[#00B2FF]" />
                <div>
                  <p className="font-medium">Energy Alerts</p>
                </div>
              </div>
            </div>
          </CardContent>
        </Card>
      </motion.div>
    </div>
  </div>
)

```

```
        <p className="text-sm text-gray-500">Receive energy consumption
alerts</p>
      </div>
    </div>
    <Switch
      checked={permissions.energyAlerts}
      onCheckedChange={(checked) => setPermissions({ ...permissions,
energyAlerts: checked })}
      className="data-[state=checked]:bg-[#00B2FF]"
    />
  </div>

  <div className="flex items-center justify-between">
    <div className="flex items-center gap-3">
      <Clock className="h-5 w-5 text-[#00B2FF]" />
      <div>
        <p className="font-medium">Add Automation</p>
        <p className="text-sm text-gray-500">Create and modify
automations</p>
      </div>
    </div>
    <Switch
      checked={permissions.addAutomation}
      onCheckedChange={(checked) => setPermissions({ ...permissions,
addAutomation: checked })}
      className="data-[state=checked]:bg-[#00B2FF]"
    />
  </div>

  <div className="flex items-center justify-between">
    <div className="flex items-center gap-3">
      <BarChart2 className="h-5 w-5 text-[#00B2FF]" />
      <div>
        <p className="font-medium">Real Time Monitoring</p>
        <p className="text-sm text-gray-500">View live device status</p>
      </div>
    </div>
    <Switch
      checked={permissions.realTimeMonitoring}
      onCheckedChange={(checked) => setPermissions({ ...permissions,
realTimeMonitoring: checked })}
      className="data-[state=checked]:bg-[#00B2FF]"
    />
  </div>

  <div className="flex items-center justify-between">
    <div className="flex items-center gap-3">
      <Database className="h-5 w-5 text-[#00B2FF]" />
      <div>
        <p className="font-medium">Analytical Data</p>
        <p className="text-sm text-gray-500">Access usage analytics</p>
      </div>
    </div>
  </div>
```

```

        </div>
        <Switch
            checked={permissions.analyticalData}
            onCheckedChange={(checked) => setPermissions({ ...permissions,
analyticalData: checked })}
            className="data-[state=checked]:bg-[#00B2FF]"
        />
    </div>

    <div className="flex items-center justify-between">
        <div className="flex items-center gap-3">
            <History className="h-5 w-5 text-[#00B2FF]" />
            <div>
                <p className="font-medium">Historical Data</p>
                <p className="text-sm text-gray-500">View past usage data</p>
            </div>
        </div>
        <Switch
            checked={permissions.historicalData}
            onCheckedChange={(checked) => setPermissions({ ...permissions,
historicalData: checked })}
            className="data-[state=checked]:bg-[#00B2FF]"
        />
    </div>

    <div className="flex items-center justify-between">
        <div className="flex items-center gap-3">
            <Smartphone className="h-5 w-5 text-[#00B2FF]" />
            <div>
                <p className="font-medium">Device Control</p>
                <p className="text-sm text-gray-500">Control smart devices</p>
            </div>
        </div>
        <Switch
            checked={permissions.deviceControl}
            onCheckedChange={(checked) => setPermissions({ ...permissions,
deviceControl: checked })}
            className="data-[state=checked]:bg-[#00B2FF]"
        />
    </div>
</CardContent>
</Card>
</motion.div>

<motion.div
    initial={{ opacity: 0, y: 20 }}
    animate={{ opacity: 1, y: 0 }}
    transition={{ delay: 0.2 }}
    className="flex gap-4"
>
    <Dialog open={isChangePinOpen} onOpenChange={setIsChangePinOpen}>
        <DialogTrigger asChild>

```

```

        <Button variant="outline" className="flex-1">
          <Key className="w-4 h-4 mr-2" />
          Change PIN
        </Button>
      </DialogTrigger>
      <DialogContent>
        <DialogHeader>
          <DialogTitle>Change PIN</DialogTitle>
          <DialogDescription>Enter a new 4-digit PIN for this profile.</DialogDescription>
        </DialogHeader>
        <div className="flex justify-center gap-4 py-4">
          {[0, 1, 2, 3].map((i) => (
            <Input
              key={i}
              id={`pin-${i}`}
              type="text"
              inputMode="numeric"
              pattern="[0-9]*"
              maxLength={1}
              className="w-16 h-16 text-2xl text-center"
              value={newPin[i]}
              onChange={(e) => handlePinChange(i, e.target.value)}
              onKeyDown={(e) => {
                if (e.key === "Backspace" && !newPin[i] && i > 0) {
                  const prevInput = document.getElementById(`pin-${i - 1}`);
                  prevInput?.focus();
                }
              }}
            />
          )));
        </div>
        <DialogFooter>
          <Button
            onClick={handleSavePin}
            disabled={newPin.some((digit) => !digit)}
            className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90"
          >
            Save PIN
          </Button>
        </DialogFooter>
      </DialogContent>
    </Dialog>

    <Button variant="destructive" className="flex-1" onClick={handleDeleteProfile}>
      <Trash2 className="w-4 h-4 mr-2" />
      Delete Profile
    </Button>

    <Button className="flex-1 bg-[#00B2FF] hover:bg-[#00B2FF]/90" onClick={handleSaveChanges}>

```

```

        Save Changes
    </Button>
</motion.div>
</div>
</div>
)
}
}

```

## app/manage-profiles/page.tsx

```

// manage-profiles/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card,CardContent } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { motion } from "framer-motion"
import { ArrowLeft, Users, Settings, Shield } from "lucide-react"
import { useRouter } from "next/navigation"
import Image from "next/image"

interface FamilyMember {
  id: string
  name: string
  email: string
  role: string
  avatar?: string
}

export default function ManageProfilesPage() {
  const router = useRouter()
  const [familyMembers, setFamilyMembers] = useState<FamilyMember[]>([])

  useEffect(() => {
    const storedMembers = JSON.parse(localStorage.getItem("familyMembers") || "[]")
    setFamilyMembers(storedMembers)
  }, [])

  return (
    <div className="p-6 min-h-screen bg-gradient-to-br from-gray-50 to-gray-100">
      <motion.div initial={{ opacity: 0, y: -20 }} animate={{ opacity: 1, y: 0 }}>
        <header className="flex justify-between items-center mb-8">
          <div className="flex items-center gap-4">
            <Button variant="ghost" size="icon" onClick={() => router.back()}>
              <ArrowLeft className="h-6 w-6" />
            </Button>
            <div className="flex items-center gap-4">
              <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-

```

```
[#0085FF] rounded-full flex items-center justify-center shadow-lg">
    <Users className="h-6 w-6 text-white" />
</div>
<div>
    <h1 className="text-2xl font-bold text-gray-800">Manage
Profiles</h1>
    <p className="text-sm text-gray-500">Manage access and permissions
for family members</p>
</div>
</div>
</header>
</motion.div>

<motion.div
    initial={{ opacity: 0 }}
    animate={{ opacity: 1 }}
    transition={{ delay: 0.2 }}
    className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6"
>
    {familyMembers.map((member, index) =>
        <motion.div
            key={member.id}
            initial={{ opacity: 0, y: 20 }}
            animate={{ opacity: 1, y: 0 }}
            transition={{ delay: index * 0.1 }}
        >
            <Card className="overflow-hidden hover:shadow-lg transition-shadow">
                <CardContent className="p-6">
                    <div className="flex flex-col items-center text-center">
                        <div className="relative w-24 h-24 mb-4">
                            {member.avatar ? (
                                <Image
                                    src={member.avatar || "/placeholder.svg"}
                                    alt={member.name}
                                    fill
                                    className="rounded-full object-cover"
                                />
                            ) : (
                                <div className="w-full h-full bg-gray-100 rounded-full flex
items-center justify-center">
                                    <span className="text-2xl font-semibold text-gray-500">
{member.name[0]}</span>
                                </div>
                            )
                        )
                    </div>
                    <h3 className="font-semibold text-lg mb-1">{member.name}</h3>
                    <p className="text-sm text-gray-500 mb-2">
                        {member.role.charAt(0).toUpperCase() + member.role.slice(1)}
                    </p>
                    <p className="text-sm text-gray-500 mb-4">{member.email}</p>
                    <div className="grid grid-cols-2 gap-3 w-full">
```

```

        <Button
          variant="outline"
          className="w-full text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]/10"
          onClick={() => router.push(`/manage-profiles/${member.id}/details`)}
        >
          <Settings className="w-4 h-4 mr-2" />
          Manage Details
        </Button>
        <Button
          className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90"
          onClick={() => router.push(`/manage-profiles/${member.id}/access`)}
        >
          <Shield className="w-4 h-4 mr-2" />
          Manage Access
        </Button>
      </div>
    </div>
  </CardContent>
</Card>
</motion.div>
))}

</motion.div>
</div>
)
}

```

## app/page.tsx

```

// page.tsx
import { redirect } from "next/navigation"

export default function Page() {
  redirect("/dashboard")
}

```

## app/profile/page.tsx

```

// profile/page.tsx
"use client";

import type React from "react";
import { useState, useEffect } from "react";

```

```
import { Card,CardContent } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Label } from "@/components/ui/label";
import {
  Dialog,
  DialogContent,
  DialogDescription,
  DialogFooter,
  DialogHeader,
  DialogTitle,
} from "@/components/ui/dialog";
import { useLogout } from "@/app/components/logout";
import { motion } from "framer-motion";
import { User, Settings, BarChart2, Users, LogOut, Plus, Lock } from "lucide-react";
import { useRouter } from "next/navigation";
import Link from "next/link";
import { toast } from "@/components/ui/use-toast";
import Image from "next/image";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import the navbar

interface FamilyMember {
  id: string;
  name: string;
  email: string;
  role: string;
}

}

export default function ProfilePage() {
  const [isEditProfileOpen, setIsEditProfileOpen] = useState(false);
  const [editProfileData, setEditProfileData] = useState({
    name: "",
    email: "",
  });
  const [user, setUser] = useState<any>(null);
  const logout = useLogout();
  const router = useRouter();

  useEffect(() => {
    const currentUser = JSON.parse(localStorage.getItem("currentUser") || "{}");
    if (!currentUser.email || !currentUser.isAuthenticated) {
      router.push("/auth/login");
      return;
    }
    setUser(currentUser);
    setEditProfileData({
      name: currentUser.name,
      email: currentUser.email,
    });
  }, [router]);
}
```

```

const handleEditProfile = () => {
  // In a real application, this would update the user's information in the
  backend
  setUser({ ...user, ...editProfileData });
  localStorage.setItem("currentUser", JSON.stringify({ ...user, ...editProfileData
}));
  setIsEditProfileOpen(false);
  toast({
    title: "Profile Updated",
    description: "Your profile information has been updated successfully.",
  });
}

const handleRequestAccess = (feature: string) => {
  // In a real application, this would send a request to the admin
  toast({
    title: "Access Requested",
    description: `Your request for access to ${feature} has been sent to the
admin.`,
  });
}

if (!user) return null;

return (
  <div className="min-h-screen bg-gray-50 flex">
    <NavigationSidebar />
    <div className="flex-1 ml-[72px]">
      <motion.div
        initial={{ opacity: 0, y: 20 }}
        animate={{ opacity: 1, y: 0 }}
        transition={{ duration: 0.5 }}
        className="p-6"
      >
        <motion.div initial={{ opacity: 0, y: 20 }} animate={{ opacity: 1, y: 0 }}>
          <Card className="max-w-4xl mx-auto">
            <CardContent className="p-6">
              <div className="flex justify-between items-start mb-8">
                <div className="flex items-center gap-4">
                  <div className="w-16 h-16 bg-gradient-to-br from-[#00B2FF] to-
[#0085FF] rounded-full flex items-center justify-center shadow-lg">
                    <User className="w-8 h-8 text-white" />
                  </div>
                  <div>
                    <h1 className="text-2xl font-bold text-gray-800">Profile</h1>
                    <p className="text-sm text-gray-500">Manage your account and
family members</p>
                  </div>
                </div>
              </div>
              <Button variant="outline" className="text-[#00B2FF]" onClick={()>
=> setIsEditProfileOpen(true)}>

```

```

        <Settings className="w-4 h-4 mr-2" />
        Edit Profile
    </Button>
</div>

<div className="flex flex-col md:flex-row items-center mb-8 bg-white p-6 rounded-lg shadow-sm">
    <div className="relative w-32 h-32 mb-4 md:mb-0 md:mr-6">
        <Image src="/placeholder.svg" alt="Profile" layout="fill"
    className="rounded-full object-cover" />
    </div>
    <div className="text-center md:text-left">
        <h3 className="text-2xl font-semibold mb-1">{user.name}</h3>
        <p className="text-gray-600 mb-1">{user.email}</p>
        <p className="text-[#00B2FF] font-medium">{user.role}</p>
        <div className="flex gap-2 mt-4">
            <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90%" onClick={() => setIsEditProfileOpen(true)}>
                Edit Profile
            </Button>
            <Button variant="outline" onClick={logout}>
                <LogOut className="w-4 h-4 mr-2" />
                Logout
            </Button>
        </div>
    </div>
</div>
</div>

<motion.div
    initial={{ opacity: 0 }}
    animate={{ opacity: 1 }}
    transition={{ delay: 0.2 }}
    className="grid grid-cols-1 md:grid-cols-2 gap-4"
>
    {user.type === "admin" ? (
        <>
            <Link href="/create-profile">
                <Button className="w-full h-12 bg-[#00B2FF] text-white hover:bg-[#00B2FF]/90%">
                    <Plus className="w-4 h-4 mr-2" />
                    Create Profile
                </Button>
            </Link>
            <Link href="/manage-profiles">
                <Button
                    variant="outline"
                    className="w-full h-12 text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]/10%">
                    <Users className="w-4 h-4 mr-2" />
                    Manage Profiles
                </Button>
            </Link>
        </>
    ) : null}
</motion.div>

```

```

        </Button>
    </Link>

    <Button
        variant="outline"
        className="w-full h-12 text-[#00B2FF] border-[#00B2FF]
hover:bg-[#00B2FF]/10"
        onClick={() => router.push("/statistics")}
    >
        <BarChart2 className="w-4 h-4 mr-2" />
        View Analytics
    </Button>

    <Button
        variant="outline"
        className="w-full h-12 text-[#00B2FF] border-[#00B2FF]
hover:bg-[#00B2FF]/10"
        onClick={() => router.push("/settings")}
    >
        <Settings className="w-4 h-4 mr-2" />
        Account Settings
    </Button>
</>
) : (
<>
    {!user.permissions?.analyticalData && (
        <Button
            variant="outline"
            className="w-full h-12 text-[#00B2FF] border-[#00B2FF]
hover:bg-[#00B2FF]/10"
            onClick={() => handleRequestAccess("Analytical Data")}
        >
            <Lock className="w-4 h-4 mr-2" />
            Request Analytics Access
        </Button>
    )}
    {!user.permissions?.addAutomation && (
        <Button
            variant="outline"
            className="w-full h-12 text-[#00B2FF] border-[#00B2FF]
hover:bg-[#00B2FF]/10"
            onClick={() => handleRequestAccess("Automation")}
        >
            <Lock className="w-4 h-4 mr-2" />
            Request Automation Access
        </Button>
    )}
    <Button
        variant="outline"
        className="w-full h-12 text-[#00B2FF] border-[#00B2FF]
hover:bg-[#00B2FF]/10"
        onClick={() => router.push("/settings")}
    >

```

```

        >
          <Settings className="w-4 h-4 mr-2" />
          Account Settings
        </Button>
      </>
    )
  </motion.div>
</CardContent>
</Card>
</motion.div>

<Dialog open={isEditProfileOpen} onOpenChange={setIsEditProfileOpen}>
  <DialogContent className="sm:max-w-[425px]">
    <DialogHeader>
      <DialogTitle>Edit Profile</DialogTitle>
      <DialogDescription>Make changes to your profile here.
    </DialogDescription>
    </DialogHeader>
    <div className="grid gap-4 py-4">
      <div className="grid grid-cols-4 items-center gap-4">
        <Label htmlFor="edit-name" className="text-right">
          Name
        </Label>
        <Input
          id="edit-name"
          value={editProfileData.name}
          onChange={(e) => setEditProfileData({ ...editProfileData, name: e.target.value })}
          className="col-span-3"
        />
      </div>
      <div className="grid grid-cols-4 items-center gap-4">
        <Label htmlFor="edit-email" className="text-right">
          Email
        </Label>
        <Input
          id="edit-email"
          type="email"
          value={editProfileData.email}
          onChange={(e) => setEditProfileData({ ...editProfileData, email: e.target.value })}
          className="col-span-3"
        />
      </div>
    </div>
    <DialogFooter>
      <Button type="submit" onClick={handleEditProfile}>
        Save changes
      </Button>
    </DialogFooter>
  </DialogContent>
</Dialog>

```

```

        </motion.div>
    </div>
</div>
);
}

```

## app/rooms/add-room-dialog.tsx

```

// rooms/add-room-dialog.tsx
"use client"

import type React from "react"

import { useState } from "react"
import { Dialog, DialogContent, DialogHeader, DialogTitle } from
"@/components/ui/dialog"
import { Input } from "@/components/ui/input"
import { Label } from "@/components/ui/label"
import { Button } from "@/components/ui/button"

interface AddRoomDialogProps {
    open: boolean
    onOpenChange: (open: boolean) => void
    onAdd: (room: { name: string; image: string }) => void
}

export function AddRoomDialog({ open, onOpenChange, onAdd }: AddRoomDialogProps) {
    const [name, setName] = useState("")
    const [image, setImage] = useState("")

    const handleSubmit = (e: React.FormEvent) => {
        e.preventDefault()
        if (name && image) {
            onAdd({ name, image })
            setName("")
            setImage("")
        }
    }
}

return (
    <Dialog open={open} onOpenChange={onOpenChange}>
        <DialogContent>
            <DialogHeader>
                <DialogTitle>Add New Room</DialogTitle>
            </DialogHeader>
            <form onSubmit={handleSubmit} className="space-y-4">
                <div className="space-y-2">
                    <Label htmlFor="name">Room Name</Label>
                    <Input
                        id="name"

```

```

        value={name}
        onChange={(e) => setName(e.target.value)}
        placeholder="Enter room name"
        required
      />
    </div>
    <div className="space-y-2">
      <Label htmlFor="image">Image URL</Label>
      <Input
        id="image"
        value={image}
        onChange={(e) => setImage(e.target.value)}
        placeholder="Enter image URL"
        required
      />
    </div>
    <Button type="submit" className="w-full">
      Add Room
    </Button>
  </form>
</DialogContent>
</Dialog>
)
}

```

## app/rooms/page.tsx

```

// rooms/page.tsx
"use client"

import { NavigationSidebar } from "../components/navigation-sidebar"
import { Button } from "@/components/ui/button"
import { Plus, User, Home } from "lucide-react"
import { useState } from "react"
import { RoomCard } from "./room-card"
import { AddRoomDialog } from "./add-room-dialog"
import { Card } from "@/components/ui/card"
import Link from "next/link"

const initialRooms = [
{
  id: 1,
  name: "Living Room",
  image: "https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg",
},
{
  id: 2,
  name: "Bedroom",

```

```

    image: "https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-
MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg",
},
{
  id: 3,
  name: "Laundry Room",
  image: "https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-
MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg",
},
{
  id: 4,
  name: "Garage",
  image: "https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-
MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg",
},
{
  id: 5,
  name: "Kitchen",
  image: "https://hebbkx1anhila5yf.public.blob.vercel-storage.com/IMG_0697-
MRkZkq9qJMNVm20BYSDpY0dkYHt3pF.jpeg",
},
]
}

export default function RoomsPage() {
  const [rooms, setRooms] = useState(initialRooms)
  const [isDialogOpen, setIsDialogOpen] = useState(false)

  const handleAddRoom = (newRoom: { name: string; image: string }) => {
    setRooms([...rooms, { id: rooms.length + 1, ...newRoom }])
    setIsDialogOpen(false)
  }

  return (
    <div className="min-h-screen bg-gray-50">
      <NavigationSidebar />
      <div className="ml-[72px] p-6">
        <header className="flex justify-between items-center mb-6">
          <div className="flex items-center gap-4">
            <div className="w-10 h-10 bg-[#00B2FF] rounded-full flex items-center justify-center">
              <span className="text-white font-bold text-xl">Sy</span>
            </div>
            <h1 className="text-2xl font-bold">Room List</h1>
          </div>
          <Button variant="ghost" size="icon">
            <User className="h-5 w-5" />
          </Button>
        </header>

        <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
          {rooms.length === 0 ? (
            <Card className="col-span-full p-6 text-center">

```

```

<div className="flex flex-col items-center justify-center space-y-4">
  <div className="rounded-full bg-blue-100 p-3">
    <Home className="h-8 w-8 text-[#00B2FF]" />
  </div>
  <div className="space-y-2">
    <h3 className="font-semibold text-lg">No rooms added yet</h3>
    <p className="text-muted-foreground">Start by adding your first
room to manage your smart home</p>
  </div>
  <Link href="/add-room">
    <Button className="bg-[#00B2FF] hover:bg-[#00B2FF]/90">
      <Plus className="mr-2 h-4 w-4" /> Add Your First Room
    </Button>
  </Link>
  </div>
</Card>
) : (
<>
  {rooms.map((room) => (
    <RoomCard key={room.id} name={room.name} image={room.image} />
  ))}
  <button
    onClick={() => setIsDialogOpen(true)}
    className="aspect-video bg-white rounded-lg border-2 border-dashed
border-gray-200 flex flex-col items-center justify-center gap-2 hover:border-
[#00B2FF] transition-colors"
  >
    <Plus className="h-8 w-8 text-[#00B2FF]" />
    <span className="text-[#00B2FF] font-medium">Add a Room</span>
  </button>
</>
)
</div>

<AddRoomDialog open={isDialogOpen} onOpenChange={setIsDialogOpen} onAdd=
{handleAddRoom} />
</div>
</div>
)
}

```

## app/rooms/room-card.tsx

```

// rooms/room-card.tsx
import Image from "next/image"
import { Card } from "@components/ui/card"
import { Button } from "@components/ui/button"
import { MoreVertical } from "lucide-react"

```

```

interface RoomCardProps {
  name: string
  image: string
}

export function RoomCard({ name, image }: RoomCardProps) {
  return (
    <Card className="overflow-hidden">
      <div className="relative aspect-video">
        <Image src={image || "/placeholder.svg"} alt={name} fill className="object-cover" />
        <div className="absolute top-2 right-2">
          <Button variant="ghost" size="icon" className="bg-white/80 hover:bg-white">
            <MoreVertical className="h-4 w-4" />
          </Button>
        </div>
        <div className="absolute bottom-2 left-2 bg-white/80 px-2 py-1 rounded text-sm">{name}</div>
      </div>
    </Card>
  )
}

```

## app/settings/page.tsx

```

// settings/page.tsx
"use client";

import { useState } from "react";
import { Card,CardContent,CardHeader,CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Label } from "@/components/ui/label";
import { Switch } from "@/components/ui/switch";
import { Select,SelectContent,SelectItem,SelectTrigger,SelectValue } from "@/components/ui/select";
import { motion } from "framer-motion";
import {
  Bell,
  Moon,
  Sun,
  Shield,
  Wifi,
  Volume2,
  BellRing,
  Globe,
  HardDrive,
  RefreshCw,

```

```
Smartphone,
Zap,
Settings2,
} from "lucide-react";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar

const container = {
  hidden: { opacity: 0 },
  show: {
    opacity: 1,
    transition: {
      staggerChildren: 0.1,
    },
  },
};

const item = {
  hidden: { opacity: 0, y: 20 },
  show: { opacity: 1, y: 0 },
};

export default function SettingsPage() {
  const [notifications, setNotifications] = useState(true);
  const [darkMode, setDarkMode] = useState(false);
  const [sound, setSound] = useState(true);

  return (
    <div className="min-h-screen bg-gradient-to-br from-gray-50 to-gray-100 flex">
      <NavigationSidebar />
      <div className="flex-1 ml-[72px]">
        <motion.div
          initial={{ opacity: 0, y: 20 }}
          animate={{ opacity: 1, y: 0 }}
          transition={{ duration: 0.5 }}
          className="p-6"
        >
          <motion.div initial={{ opacity: 0, y: -20 }} animate={{ opacity: 1, y: 0
        }} transition={{ duration: 0.5 }}>
            <header className="flex justify-between items-center mb-8">
              <div className="flex items-center gap-4">
                <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-
[#0085FF] rounded-full flex items-center justify-center shadow-lg">
                  <Settings2 className="h-6 w-6 text-white" />
                </div>
                <div>
                  <h1 className="text-2xl font-bold text-gray-800">Settings</h1>
                  <p className="text-sm text-gray-500">Customize your smart home
experience</p>
                </div>
              </div>
            </header>
          </motion.div>
        </div>
      </div>
    </div>
  );
}
```

```

    </motion.div>

    <motion.div
        variants={container}
        initial="hidden"
        animate="show"
        className="grid grid-cols-1 md:grid-cols-2 gap-6"
    >
        <motion.div variants={item}>
            <Card className="overflow-hidden border-t-4 border-t-[#00B2FF]">
                <CardHeader>
                    <CardTitle className="flex items-center gap-2 text-[#00B2FF]">
                        <Zap className="h-5 w-5" />
                        General Settings
                    </CardTitle>
                </CardHeader>
                <CardContent className="space-y-6">
                    <div className="flex items-center justify-between p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
                        <div className="flex items-center gap-3">
                            <Bell className="h-5 w-5 text-[#00B2FF]" />
                            <div>
                                <p className="font-medium">Notifications</p>
                                <p className="text-sm text-gray-500">Enable push notifications</p>
                            </div>
                        </div>
                        <Switch
                            checked={notifications}
                            onCheckedChange={setNotifications}
                            className="data-[state=checked]:bg-[#00B2FF]"
                        />
                    </div>
                </CardContent>
            <div className="flex items-center justify-between p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
                <div className="flex items-center gap-3">
                    <Moon className="h-5 w-5 text-[#00B2FF]" />
                    <div>
                        <p className="font-medium">Dark Mode</p>
                        <p className="text-sm text-gray-500">Toggle dark mode theme</p>
                    </div>
                </div>
                <Switch
                    checked={darkMode}
                    onCheckedChange={setDarkMode}
                    className="data-[state=checked]:bg-[#00B2FF]"
                />
            </div>
        </Card>
    </motion.div>
</div>

```

```

rounded-lg transition-colors hover:bg-gray-100">
    <div className="flex items-center gap-3">
        <Volume2 className="h-5 w-5 text-[#00B2FF]" />
        <div>
            <p className="font-medium">Sound Effects</p>
            <p className="text-sm text-gray-500">Enable sound
effects</p>
        </div>
    </div>
    <Switch checked={sound} onCheckedChange={setSound}
className="data-[state=checked]:bg-[#00B2FF]" />
</div>

<div className="space-y-2 p-4 bg-gray-50 rounded-lg transition-
colors hover:bg-gray-100">
    <div className="flex items-center gap-3 mb-3">
        <Globe className="h-5 w-5 text-[#00B2FF]" />
        <Label className="font-medium">Language</Label>
    </div>
    <Select defaultValue="en">
        <SelectTrigger className="w-full border-[#00B2FF] focus:ring-
[#00B2FF]">
            <SelectValue />
        </SelectTrigger>
        <SelectContent>
            <SelectItem value="en">English</SelectItem>
            <SelectItem value="es">Spanish</SelectItem>
            <SelectItem value="fr">French</SelectItem>
            <SelectItem value="de">German</SelectItem>
        </SelectContent>
    </Select>
</div>
</CardContent>
</Card>
</motion.div>

<motion.div variants={item}>
    <Card className="overflow-hidden border-t-4 border-t-[#FF9500]">
        <CardHeader>
            <CardTitle className="flex items-center gap-2 text-[#FF9500]">
                <Shield className="h-5 w-5" />
                Network & Security
            </CardTitle>
        </CardHeader>
        <CardContent className="space-y-6">
            <div className="space-y-2 p-4 bg-gray-50 rounded-lg transition-
colors hover:bg-gray-100">
                <div className="flex items-center gap-3 mb-3">
                    <Wifi className="h-5 w-5 text-[#FF9500]" />
                    <Label className="font-medium">WiFi Network</Label>
                </div>
                <div className="flex gap-2">

```

```

<Input
  value="MyHomeNetwork"
  readOnly
  className="flex-1 border-[#FF9500] focus-visible:ring-[#FF9500]"
/>
<Button
  variant="outline"
  size="icon"
  className="text-[#FF9500] border-[#FF9500] hover:bg-[#FF9500] hover:text-white"
>
  <RefreshCw className="h-4 w-4" />
</Button>
</div>
</div>

<div className="space-y-2 p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
  <div className="flex items-center gap-3 mb-3">
    <Shield className="h-5 w-5 text-[#FF9500]" />
    <Label className="font-medium">Security Level</Label>
  </div>
  <Select defaultValue="high">
    <SelectTrigger className="w-full border-[#FF9500] focus:ring-[#FF9500]">
      <SelectValue />
    </SelectTrigger>
    <SelectContent>
      <SelectItem value="high">High Security</SelectItem>
      <SelectItem value="medium">Medium Security</SelectItem>
      <SelectItem value="low">Low Security</SelectItem>
    </SelectContent>
  </Select>
</div>

<div className="space-y-2 p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
  <div className="flex items-center gap-3 mb-3">
    <HardDrive className="h-5 w-5 text-[#FF9500]" />
    <Label className="font-medium">Backup Frequency</Label>
  </div>
  <Select defaultValue="daily">
    <SelectTrigger className="w-full border-[#FF9500] focus:ring-[#FF9500]">
      <SelectValue />
    </SelectTrigger>
    <SelectContent>
      <SelectItem value="daily">Daily</SelectItem>
      <SelectItem value="weekly">Weekly</SelectItem>
      <SelectItem value="monthly">Monthly</SelectItem>
    </SelectContent>
  </Select>
</div>

```

```

        </Select>
    </div>
</CardContent>
</Card>
</motion.div>

<motion.div variants={item}>
    <Card className="overflow-hidden border-t-4 border-t-[#00B2FF]">
        <CardHeader>
            <CardTitle className="flex items-center gap-2 text-[#00B2FF]">
                <BellRing className="h-5 w-5" />
                Notification Preferences
            </CardTitle>
        </CardHeader>
        <CardContent className="space-y-6">
            <div className="flex items-center justify-between p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
                <div className="flex items-center gap-3">
                    <BellRing className="h-5 w-5 text-[#00B2FF]" />
                    <span className="font-medium">Device Alerts</span>
                </div>
                <Switch defaultChecked className="data-[state=checked]:bg-[#00B2FF]" />
            </div>
        </CardContent>
        <div className="flex items-center justify-between p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
            <div className="flex items-center gap-3">
                <Shield className="h-5 w-5 text-[#00B2FF]" />
                <span className="font-medium">Security Alerts</span>
            </div>
            <Switch defaultChecked className="data-[state=checked]:bg-[#00B2FF]" />
        </div>
        <div className="flex items-center justify-between p-4 bg-gray-50 rounded-lg transition-colors hover:bg-gray-100">
            <div className="flex items-center gap-3">
                <Sun className="h-5 w-5 text-[#00B2FF]" />
                <span className="font-medium">Energy Reports</span>
            </div>
            <Switch defaultChecked className="data-[state=checked]:bg-[#00B2FF]" />
        </div>
    </CardContent>
</Card>
</motion.div>

<motion.div variants={item}>
    <Card className="overflow-hidden border-t-4 border-t-[#FF9500]">
        <CardHeader>
            <CardTitle className="flex items-center gap-2 text-[#FF9500]">

```

```

        <Smartphone className="h-5 w-5" />
        System Information
    </CardTitle>
</CardHeader>
<CardContent className="space-y-4">
    <div className="p-4 bg-gray-50 rounded-lg transition-colors
hover:bg-gray-100">
        <Label className="text-sm text-gray-500">System Version</Label>
        <p className="font-medium text-[#FF9500]">2.1.0</p>
    </div>

    <div className="p-4 bg-gray-50 rounded-lg transition-colors
hover:bg-gray-100">
        <Label className="text-sm text-gray-500">Last Updated</Label>
        <p className="font-medium text-[#FF9500]">January 15, 2024</p>
    </div>

    <div className="p-4 bg-gray-50 rounded-lg transition-colors
hover:bg-gray-100">
        <Label className="text-sm text-gray-500">Device ID</Label>
        <p className="font-medium text-[#FF9500]">SYNC-HUB-001234</p>
    </div>

    <Button
        variant="outline"
        className="w-full h-12 mt-4 border-[#FF9500] text-[#FF9500]
hover:bg-[#FF9500] hover:text-white transition-colors"
        >
        <RefreshCw className="w-4 h-4 mr-2" />
        Check for Updates
    </Button>
</CardContent>
</Card>
</motion.div>
</motion.div>
</motion.div>
</div>
</div>
);
}

```

## app/statistics/page.tsx

```

// statistics/page.tsx
"use client";

import { useState, useEffect } from "react";
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";

```

```
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select";
import { LineChart, BarChart, PieChart } from "@/components/charts";
import { Download, User, BarChart2, PieChartIcon, TrendingUp, Lock } from "lucide-
react";
import { PDFDocument, rgb } from "pdf-lib";
import { toPng } from "html-to-image";
//import { Inter } from "next/font/google";
import { motion } from "framer-motion";
import { useRouter } from "next/navigation";
import { useToast } from "@/components/ui/use-toast";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar

//const inter = Inter({ subsets: ["latin"] });

interface Device {
  id: string;
  name: string;
  type: string;
  room: string;
  status: "on" | "off";
  powerConsumption: number;
  lastStatusChange: number;
  totalEnergyConsumed: number;
}

interface Room {
  id: string;
  name: string;
}

const generatePDF = async (devices: Device[], rooms: Room[]) => {
  const pdfDoc = await PDFDocument.create();
  const page = pdfDoc.addPage();
  const { width, height } = page.getSize();
  const fontSize = 12;

  // Add title
  page.drawText("Energy Consumption Report", {
    x: 50,
    y: height - 50,
    size: 20,
    color: rgb(0, 0, 0),
  });

  // Add date
  const currentDate = new Date().toLocaleDateString();
  page.drawText(`Generated on: ${currentDate}`, {
    x: 50,
    y: height - 80,
    size: fontSize,
```

```

        color: rgb(0.5, 0.5, 0.5),
    });

// Add device usage table
page.drawText("Device Usage", {
    x: 50,
    y: height - 120,
    size: 16,
    color: rgb(0, 0, 0),
});

devices.forEach((device, index) => {
    page.drawText(` ${device.name} (${device.type}): ${device.totalEnergyConsumed.toFixed(2)} kWh`, {
        x: 50,
        y: height - 150 - index * 20,
        size: fontSize,
        color: rgb(0, 0, 0),
    });
});

// Add room usage table
page.drawText("Room Usage", {
    x: 50,
    y: height - 300,
    size: 16,
    color: rgb(0, 0, 0),
});

rooms.forEach((room, index) => {
    const roomUsage = devices.filter((d) => d.room === room.name).reduce((sum, d) =>
    sum + d.totalEnergyConsumed, 0);
    page.drawText(` ${room.name}: ${roomUsage.toFixed(2)} kWh`, {
        x: 50,
        y: height - 330 - index * 20,
        size: fontSize,
        color: rgb(0, 0, 0),
    });
});

// Add charts
const charts = document.querySelectorAll(".chart-container");
for (let i = 0; i < charts.length; i++) {
    const chart = charts[i] as HTMLElement;

    // Add a style tag with the necessary font information
    const style = document.createElement("style");
    //style.textContent =
    //  `@import url('https://fonts.googleapis.com/css2?family=Inter&display=swap');`;
    //  * { font-family: 'Inter', sans-serif; }
    //`;
    chart.prepend(style);
}

```

```
const pngImage = await toPng(chart, {
  quality: 0.95,
  backgroundColor: "#ffffff",
  style: {
    // Add any additional styles here if needed
  },
});

// Remove the added style tag
chart.removeChild(style);

const image = await pdfDoc.embedPng(pngImage);

page.drawImage(image, {
  x: 50,
  y: height - 500 - i * 300,
  width: 500,
  height: 250,
});
}

const pdfBytes = await pdfDoc.save();
const blob = new Blob([pdfBytes], { type: "application/pdf" });
const link = document.createElement("a");
link.href = URL.createObjectURL(blob);
link.download = "energy_statistics.pdf";
link.click();
};

export default function StatisticsPage() {
  const router = useRouter();
  const [devices, setDevices] = useState<Device[]>([]);
  const [rooms, setRooms] = useState<Room[]>([]);
  const [timeRange, setTimeRange] = useState("day");
  const [user, setUser] = useState<any>(null);
  const { toast } = useToast();

  useEffect(() => {
    const currentUser = JSON.parse(localStorage.getItem("currentUser") || "{}");
    //if (!currentUser.id || !currentUser.permissions?.statisticalData) {
    //  router.push("/");
    //  return;
    //}
    setUser(currentUser);

    const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]");
    const storedRooms = JSON.parse(localStorage.getItem("rooms") || "[]");
    setDevices(storedDevices);
    setRooms(storedRooms);
  }, [router]);
}
```

```

const handleRequestAccess = () => {
  toast({
    title: "Access Requested",
    description: "Your request for access to Statistical Data has been sent to the admin.",
  });
};

const filterDataByTimeRange = (data: any[]) => {
  if (data.length === 0) return [];

  const now = new Date();
  const startDate = new Date();

  switch (timeRange) {
    case "week":
      startDate.setDate(now.getDate() - 7);
      break;
    case "month":
      startDate.setMonth(now.getMonth() - 1);
      break;
    case "year":
      startDate.setFullYear(now.getFullYear() - 1);
      break;
    default: // day
      startDate.setDate(now.getDate() - 1);
  }

  return data.filter((item: any) => new Date(item.lastStatusChange) >= startDate);
};

const calculateRoomUsage = (roomName: string): number => {
  return devices
    .filter((device) => device.room === roomName)
    .reduce((total, device) => total + device.totalEnergyConsumed, 0);
};

const deviceData =
  devices.length > 0
    ? filterDataByTimeRange(devices).map((device) => ({
        name: device.name,
        usage: Number.parseFloat(device.totalEnergyConsumed.toFixed(2)),
      }))
    : [];

const roomData = rooms
  .map((room) => ({
    name: room.name,
    usage: Number.parseFloat(calculateRoomUsage(room.name).toFixed(2)),
  }))
  .filter((room) => room.usage > 0);

```

```

const deviceTypeData =
  devices.length > 0
    ? filterDataByTimeRange(devices).reduce(
      (acc, device) => {
        acc[device.type] = (acc[device.type] || 0) + device.totalEnergyConsumed;
        return acc;
      },
      {} as Record<string, number>
    )
    : {};

const totalEnergyConsumed = devices.reduce((total, device) => total +
  device.totalEnergyConsumed, 0);

const containerVariants = {
  hidden: { opacity: 0 },
  visible: {
    opacity: 1,
    transition: {
      staggerChildren: 0.1,
    },
  },
};

const itemVariants = {
  hidden: { y: 20, opacity: 0 },
  visible: {
    y: 0,
    opacity: 1,
  },
};

if (!user) return null;

if (user.type === "household" && !user.permissions?.statisticalData) {
  return (
    <div className="min-h-screen bg-gray-50 flex items-center justify-center">
      <Card className="w-full max-w-md">
        <CardContent className="flex flex-col items-center justify-center p-6">
          <Lock className="w-12 h-12 text-gray-400 mb-4" />
          <h3 className="text-lg font-semibold mb-2">Access Required</h3>
          <p className="text-sm text-gray-500 text-center mb-4">
            You don't have permission to view statistical data.
          </p>
          <Button onClick={handleRequestAccess}>Request Access</Button>
        </CardContent>
      </Card>
    </div>
  );
}

return (

```

```


<NavigationSidebar />
  <div className="flex-1 ml-[72px]">
    <motion.div
      initial="hidden"
      animate="visible"
      variants={containerVariants}
      className="p-6"
    >
      <motion.header variants={itemVariants} className="flex justify-between items-center mb-8">
        <div className="flex items-center gap-4">
          <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
            <BarChart2 className="h-6 w-6 text-white" />
          </div>
          <div>
            <h1 className="text-2xl font-bold text-gray-800">Energy
              Statistics</h1>
            <p className="text-sm text-gray-500">Monitor and analyze your energy consumption</p>
          </div>
        </div>
        <div className="flex items-center gap-4">
          <Select value={timeRange} onChange={setTimeRange}>
            <SelectTrigger className="w-[180px] border-[#00B2FF] text-[#00B2FF]">
              <SelectValue placeholder="Select time range" />
            </SelectTrigger>
            <SelectContent>
              <SelectItem value="day">Past 24 Hours</SelectItem>
              <SelectItem value="week">Past Week</SelectItem>
              <SelectItem value="month">Past Month</SelectItem>
              <SelectItem value="year">Past Year</SelectItem>
            </SelectContent>
          </Select>
          <Button
            variant="outline"
            size="icon"
            onClick={() => generatePDF(devices, rooms)}
            className="text-[#FF9500] border-[#FF9500] hover:bg-[#FF9500] hover:text-white"
          >
            <Download className="h-5 w-5" />
          </Button>
          <Button
            variant="outline"
            size="icon"
            className="text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF] hover:text-white"
          >
            <User className="h-5 w-5" />
          </Button>
        </div>
      </motion.header>
      <div className="flex-grow p-6">
        <div>
          <h2>Your Energy Usage</h2>
          <div>
            <div>
              <h3>Total Energy</h3>
              <div>
                <div><BarChart3></BarChart3></div>
                <div>1000 kWh</div>
              </div>
            </div>
            <div>
              <h3>By Device</h3>
              <table>
                <thead>
                  <tr>
                    <th>Device</th>
                    <th>Usage (kWh)</th>
                  </tr>
                </thead>
                <tbody>
                  <tr>
                    <td>Lighting</td>
                    <td>300</td>
                  </tr>
                  <tr>
                    <td>Appliances</td>
                    <td>200</td>
                  </tr>
                  <tr>
                    <td>Heating</td>
                    <td>400</td>
                  </tr>
                  <tr>
                    <td>Electronics</td>
                    <td>100</td>
                  </tr>
                </tbody>
              </table>
            </div>
          </div>
        </div>
      </div>
    </motion.div>
  </div>


```

```

        </Button>
    </div>
</motion.header>

<motion.div variants={containerVariants} className="grid grid-cols-1
md:grid-cols-3 gap-6 mb-8">
    <motion.div variants={itemVariants}>
        <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
white">
            <CardHeader>
                <CardTitle className="text-lg font-medium">Total Energy
Consumed</CardTitle>
            </CardHeader>
            <CardContent>
                <div className="text-3xl font-bold">
{totalEnergyConsumed.toFixed(2)} kWh</div>
                <p className="text-sm opacity-80">in the selected time range</p>
            </CardContent>
        </Card>
    </motion.div>
    <motion.div variants={itemVariants}>
        <Card className="bg-gradient-to-br from-[#FF9500] to-[#FFB800] text-
white">
            <CardHeader>
                <CardTitle className="text-lg font-medium">Active
Devices</CardTitle>
            </CardHeader>
            <CardContent>
                <div className="text-3xl font-bold">{devices.filter((d) =>
d.status === "on").length}</div>
                <p className="text-sm opacity-80">out of {devices.length} total
devices</p>
            </CardContent>
        </Card>
    </motion.div>
    <motion.div variants={itemVariants}>
        <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
white">
            <CardHeader>
                <CardTitle className="text-lg font-medium">Most Active
Room</CardTitle>
            </CardHeader>
            <CardContent>
                <div className="text-3xl font-bold">
{roomData.length > 0 ? roomData.reduce((a, b) => (a.usage >
b.usage ? a : b)).name : "No data"}
                </div>
                <p className="text-sm opacity-80">based on energy consumption</p>
            </CardContent>
        </Card>
    </motion.div>
</motion.div>

```

```

<motion.div variants={itemVariants}>
  <Tabs defaultValue="devices" className="space-y-6">
    <TabsList className="bg-white shadow-md rounded-lg p-1">
      <TabsTrigger value="devices" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
        <BarChart2 className="h-4 w-4 mr-2" />
        Devices
      </TabsTrigger>
      <TabsTrigger value="rooms" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
        <PieChartIcon className="h-4 w-4 mr-2" />
        Rooms
      </TabsTrigger>
      <TabsTrigger value="overview" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
        <TrendingUp className="h-4 w-4 mr-2" />
        Overview
      </TabsTrigger>
    </TabsList>
    <TabsContent value="devices" className="space-y-6">
      <Card>
        <CardHeader>
          <CardTitle className="text-xl font-semibold text-gray-
800">Energy Usage by Device</CardTitle>
        </CardHeader>
        <CardContent>
          {deviceData.length > 0 ? (
            <BarChart data={deviceData} />
          ) : (
            <p className="text-center text-gray-500">No data available for
the selected time range</p>
          )}
        </CardContent>
      </Card>
      <Card>
        <CardHeader>
          <CardTitle className="text-xl font-semibold text-gray-
800">Device Usage Over Time</CardTitle>
        </CardHeader>
        <CardContent>
          {deviceData.length > 0 ? (
            <LineChart data={deviceData} />
          ) : (
            <p className="text-center text-gray-500">No data available for
the selected time range</p>
          )}
        </CardContent>
      </Card>
    </TabsContent>
    <TabsContent value="rooms" className="space-y-6">
      <Card>

```

```

        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Energy Usage by Room</CardTitle>
        </CardHeader>
        <CardContent>
            {roomData.length > 0 ? (
                <BarChart data={roomData} />
            ) : (
                <p className="text-center text-gray-500">No data available for
the selected time range</p>
            )
        </CardContent>
    </Card>
    <Card>
        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Room
Usage Over Time</CardTitle>
        </CardHeader>
        <CardContent>
            {roomData.length > 0 ? (
                <LineChart data={roomData} />
            ) : (
                <p className="text-center text-gray-500">No data available for
the selected time range</p>
            )
        </CardContent>
    </Card>
</TabsContent>
<TabsContent value="overview" className="space-y-6">
    <Card>
        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Energy Usage by Device Type</CardTitle>
        </CardHeader>
        <CardContent>
            {Object.keys(deviceTypeData).length > 0 ? (
                <PieChart
                    data={Object.entries(deviceTypeData).map(([name, usage]) =>
{
{
                    name,
                    usage: Number.parseFloat(usage.toFixed(2)),
                }))}
            />
        ) : (
            <p className="text-center text-gray-500">No data available for
the selected time range</p>
        )
    </CardContent>

```

```

Energy Consumption Trend</CardTitle>
    </CardHeader>
    <CardContent>
        {deviceData.length > 0 ? (
            <LineChart data={deviceData} />
        ) : (
            <p className="text-center text-gray-500">No data available for
the selected time range</p>
        )}
    </CardContent>
</Card>
</TabsContent>
</Tabs>
</motion.div>
</motion.div>
</div>
</div>
);
}

```

## app/statistics/page.tsx.bak

```

"use client";

import { useState, useEffect } from "react";
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select";
import { LineChart, BarChart, PieChart } from "@/components/charts";
import { Download, User, BarChart2, PieChartIcon, TrendingUp, Lock } from "lucide-
react";
import { PDFDocument, rgb } from "pdf-lib";
import { toPng } from "html-to-image";
import { Inter } from "next/font/google";
import { motion } from "framer-motion";
import { useRouter } from "next/navigation";
import { useToast } from "@/components/ui/use-toast";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar

const inter = Inter({ subsets: ["latin"] });

interface Device {
    id: string;
    name: string;
    type: string;
    room: string;
    status: "on" | "off";
}

```

```
powerConsumption: number;
lastStatusChange: number;
totalEnergyConsumed: number;
}

interface Room {
  id: string;
  name: string;
}

const generatePDF = async (devices: Device[], rooms: Room[]) => {
  const pdfDoc = await PDFDocument.create();
  const page = pdfDoc.addPage();
  const { width, height } = page.getSize();
  const fontSize = 12;

  // Add title
  page.drawText("Energy Consumption Report", {
    x: 50,
    y: height - 50,
    size: 20,
    color: rgb(0, 0, 0),
  });

  // Add date
  const currentDate = new Date().toLocaleDateString();
  page.drawText(`Generated on: ${currentDate}`, {
    x: 50,
    y: height - 80,
    size: fontSize,
    color: rgb(0.5, 0.5, 0.5),
  });

  // Add device usage table
  page.drawText("Device Usage", {
    x: 50,
    y: height - 120,
    size: 16,
    color: rgb(0, 0, 0),
  });

  devices.forEach((device, index) => {
    page.drawText(`${device.name} (${device.type}):` +
      `${device.totalEnergyConsumed.toFixed(2)} kWh`, {
      x: 50,
      y: height - 150 - index * 20,
      size: fontSize,
      color: rgb(0, 0, 0),
    });
  });

  // Add room usage table
```

```

page.drawText("Room Usage", {
  x: 50,
  y: height - 300,
  size: 16,
  color: rgb(0, 0, 0),
});

rooms.forEach((room, index) => {
  const roomUsage = devices.filter((d) => d.room === room.name).reduce((sum, d) =>
sum + d.totalEnergyConsumed, 0);
  page.drawText(` ${room.name}: ${roomUsage.toFixed(2)} kWh`, {
    x: 50,
    y: height - 330 - index * 20,
    size: fontSize,
    color: rgb(0, 0, 0),
  });
});

// Add charts
const charts = document.querySelectorAll(".chart-container");
for (let i = 0; i < charts.length; i++) {
  const chart = charts[i] as HTMLElement;

  // Add a style tag with the necessary font information
  const style = document.createElement("style");
  style.textContent = `
    @import url('https://fonts.googleapis.com/css2?family=Inter&display=swap');
    * { font-family: 'Inter', sans-serif; }
  `;
  chart.prepend(style);

  const pngImage = await toPng(chart, {
    quality: 0.95,
    backgroundColor: "#ffffff",
    style: {
      // Add any additional styles here if needed
    },
  });

  // Remove the added style tag
  chart.removeChild(style);

  const image = await pdfDoc.embedPng(pngImage);

  page.drawImage(image, {
    x: 50,
    y: height - 500 - i * 300,
    width: 500,
    height: 250,
  });
}

```

```

const pdfBytes = await pdfDoc.save();
const blob = new Blob([pdfBytes], { type: "application/pdf" });
const link = document.createElement("a");
link.href = URL.createObjectURL(blob);
link.download = "energy_statistics.pdf";
link.click();
};

export default function StatisticsPage() {
  const router = useRouter();
  const [devices, setDevices] = useState<Device[]>([]);
  const [rooms, setRooms] = useState<Room[]>([]);
  const [timeRange, setTimeRange] = useState("day");
  const [user, setUser] = useState<any>(null);
  const { toast } = useToast();

  useEffect(() => {
    const currentUser = JSON.parse(localStorage.getItem("currentUser") || "{}");
    if (!currentUser.id || !currentUser.permissions?.statisticalData) {
      router.push("/");
      return;
    }
    setUser(currentUser);

    const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]");
    const storedRooms = JSON.parse(localStorage.getItem("rooms") || "[]");
    setDevices(storedDevices);
    setRooms(storedRooms);
  }, [router]);

  const handleRequestAccess = () => {
    toast({
      title: "Access Requested",
      description: "Your request for access to Statistical Data has been sent to the admin.",
    });
  };

  const filterDataByTimeRange = (data: any[]) => {
    if (data.length === 0) return [];

    const now = new Date();
    const startDate = new Date();

    switch (timeRange) {
      case "week":
        startDate.setDate(now.getDate() - 7);
        break;
      case "month":
        startDate.setMonth(now.getMonth() - 1);
        break;
      case "year":
    }
  }
}

```

```

        startDate.setFullYear(now.getFullYear() - 1);
        break;
    default: // day
        startDate.setDate(now.getDate() - 1);
    }

    return data.filter((item: any) => new Date(item.lastStatusChange) >= startDate);
};

const calculateRoomUsage = (roomName: string): number => {
    return devices
        .filter((device) => device.room === roomName)
        .reduce((total, device) => total + device.totalEnergyConsumed, 0);
};

const deviceData =
    devices.length > 0
        ? filterDataByTimeRange(devices).map((device) => ({
            name: device.name,
            usage: Number.parseFloat(device.totalEnergyConsumed.toFixed(2)),
        }))
        : [];

const roomData = rooms
    .map((room) => ({
        name: room.name,
        usage: Number.parseFloat(calculateRoomUsage(room.name).toFixed(2)),
    }))
    .filter((room) => room.usage > 0);

const deviceTypeData =
    devices.length > 0
        ? filterDataByTimeRange(devices).reduce(
            (acc, device) => {
                acc[device.type] = (acc[device.type] || 0) + device.totalEnergyConsumed;
                return acc;
            },
            {} as Record<string, number>
        )
        : {};

const totalEnergyConsumed = devices.reduce((total, device) => total +
    device.totalEnergyConsumed, 0);

const containerVariants = {
    hidden: { opacity: 0 },
    visible: {
        opacity: 1,
        transition: {
            staggerChildren: 0.1,
        },
    },
},

```

```

};

const itemVariants = {
  hidden: { y: 20, opacity: 0 },
  visible: {
    y: 0,
    opacity: 1,
  },
};

if (!user) return null;

if (user.type === "household" && !user.permissions?.statisticalData) {
  return (
    <div className="min-h-screen bg-gray-50 flex items-center justify-center">
      <Card className="w-full max-w-md">
        <CardContent className="flex flex-col items-center justify-center p-6">
          <Lock className="w-12 h-12 text-gray-400 mb-4" />
          <h3 className="text-lg font-semibold mb-2">Access Required</h3>
          <p className="text-sm text-gray-500 text-center mb-4">
            You don't have permission to view statistical data.
          </p>
          <Button onClick={handleRequestAccess}>Request Access</Button>
        </CardContent>
      </Card>
    </div>
  );
}

return (
  <div className="min-h-screen bg-gray-50 flex">
    <NavigationSidebar />
    <div className="flex-1 ml-[72px]">
      <motion.div
        initial="hidden"
        animate="visible"
        variants={containerVariants}
        className="p-6"
      >
        <motion.header variants={itemVariants} className="flex justify-between items-center mb-8">
          <div className="flex items-center gap-4">
            <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
              <BarChart2 className="h-6 w-6 text-white" />
            </div>
            <div>
              <h1 className="text-2xl font-bold text-gray-800">Energy
Statistics</h1>
              <p className="text-sm text-gray-500">Monitor and analyze your energy
consumption</p>
            </div>
          </div>
        </motion.header>
      </motion.div>
    </div>
  </div>
);

```

```

        </div>
        <div className="flex items-center gap-4">
          <Select value={timeRange} onChange={setTimeRange}>
            <SelectTrigger className="w-[180px] border-[#00B2FF] text-[#00B2FF]">
              <SelectValue placeholder="Select time range" />
            </SelectTrigger>
            <SelectContent>
              <SelectItem value="day">Past 24 Hours</SelectItem>
              <SelectItem value="week">Past Week</SelectItem>
              <SelectItem value="month">Past Month</SelectItem>
              <SelectItem value="year">Past Year</SelectItem>
            </SelectContent>
          </Select>
          <Button
            variant="outline"
            size="icon"
            onClick={() => generatePDF(devices, rooms)}
            className="text-[#FF9500] border-[#FF9500] hover:bg-[#FF9500]
            hover:text-white"
          >
            <Download className="h-5 w-5" />
          </Button>
          <Button
            variant="outline"
            size="icon"
            className="text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]
            hover:text-white"
          >
            <User className="h-5 w-5" />
          </Button>
        </div>
      </motion.header>

      <motion.div variants={containerVariants} className="grid grid-cols-1
      md:grid-cols-3 gap-6 mb-8">
        <motion.div variants={itemVariants}>
          <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
          white">
            <CardHeader>
              <CardTitle className="text-lg font-medium">Total Energy
              Consumed</CardTitle>
            </CardHeader>
            <CardContent>
              <div className="text-3xl font-bold">
                {totalEnergyConsumed.toFixed(2)} kWh</div>
              <p className="text-sm opacity-80">in the selected time range</p>
            </CardContent>
          </Card>
        </motion.div>
        <motion.div variants={itemVariants}>
          <Card className="bg-gradient-to-br from-[#FF9500] to-[#FFB800] text-

```

```

white">
    <CardHeader>
        <CardTitle className="text-lg font-medium">Active
Devices</CardTitle>
    </CardHeader>
    <CardContent>
        <div className="text-3xl font-bold">{devices.filter((d) =>
d.status === "on").length}</div>
        <p className="text-sm opacity-80">out of {devices.length} total
devices</p>
    </CardContent>
</Card>
</motion.div>
<motion.div variants={itemVariants}>
    <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
white">
        <CardHeader>
            <CardTitle className="text-lg font-medium">Most Active
Room</CardTitle>
        </CardHeader>
        <CardContent>
            <div className="text-3xl font-bold">
                {roomData.length > 0 ? roomData.reduce((a, b) => (a.usage >
b.usage ? a : b)).name : "No data"}
            </div>
            <p className="text-sm opacity-80">based on energy consumption</p>
        </CardContent>
</Card>
</motion.div>
</motion.div>

<motion.div variants={itemVariants}>
    <Tabs defaultValue="devices" className="space-y-6">
        <TabsList className="bg-white shadow-md rounded-lg p-1">
            <TabsTrigger value="devices" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                <BarChart2 className="h-4 w-4 mr-2" />
                Devices
            </TabsTrigger>
            <TabsTrigger value="rooms" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                <PieChartIcon className="h-4 w-4 mr-2" />
                Rooms
            </TabsTrigger>
            <TabsTrigger value="overview" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                <TrendingUp className="h-4 w-4 mr-2" />
                Overview
            </TabsTrigger>
        </TabsList>
        <TabsContent value="devices" className="space-y-6">
            <Card>

```

```

        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Energy Usage by Device</CardTitle>
        </CardHeader>
        <CardContent>
            {deviceData.length > 0 ? (
                <BarChart data={deviceData} />
            ) : (
                <p className="text-center text-gray-500">No data available for
the selected time range</p>
            )
        </CardContent>
    </Card>
    <Card>
        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Device Usage Over Time</CardTitle>
        </CardHeader>
        <CardContent>
            {deviceData.length > 0 ? (
                <LineChart data={deviceData} />
            ) : (
                <p className="text-center text-gray-500">No data available for
the selected time range</p>
            )
        </CardContent>
    </Card>
</TabsContent>
<TabsContent value="rooms" className="space-y-6">
    <Card>
        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Energy Usage by Room</CardTitle>
        </CardHeader>
        <CardContent>
            {roomData.length > 0 ? (
                <BarChart data={roomData} />
            ) : (
                <p className="text-center text-gray-500">No data available for
the selected time range</p>
            )
        </CardContent>
    </Card>
    <Card>
        <CardHeader>
            <CardTitle className="text-xl font-semibold text-gray-800">Room
Usage Over Time</CardTitle>
        </CardHeader>
        <CardContent>
            {roomData.length > 0 ? (
                <LineChart data={roomData} />
            ) : (

```

```

        <p className="text-center text-gray-500">No data available for
the selected time range</p>
    )}
</CardContent>
</Card>
</TabsContent>
<TabsContent value="overview" className="space-y-6">
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-
800">Energy Usage by Device Type</CardTitle>
</CardHeader>
<CardContent>
{Object.keys(deviceTypeData).length > 0 ? (
<PieChart
    data={Object.entries(deviceTypeData).map(([name, usage]) =>
(
{
    name,
    usage: Number.parseFloat(usage.toFixed(2)),
})))
/>
) : (
<p className="text-center text-gray-500">No data available for
the selected time range</p>
)}
</CardContent>
</Card>
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Total
Energy Consumption Trend</CardTitle>
</CardHeader>
<CardContent>
{deviceData.length > 0 ? (
<LineChart data={deviceData} />
) : (
<p className="text-center text-gray-500">No data available for
the selected time range</p>
)}
</CardContent>
</Card>
</TabsContent>
</Tabs>
</motion.div>
</motion.div>
</div>
</div>
);
}

```

## app/statistics/page.tsx.bak.bak

```
"use client";

import { useState, useEffect } from "react";
import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from
"@/components/ui/select";
import { LineChart, BarChart, PieChart } from "@/components/charts";
import { Download, User, BarChart2, PieChartIcon, TrendingUp, Lock, FileText } from
"lucide-react";
import { PDFDocument, rgb } from "pdf-lib";
import { toPng } from "html-to-image";
import { motion } from "framer-motion";
import { useRouter } from "next/navigation";
import { useToast } from "@/components/ui/use-toast";
import { NavigationSidebar } from "@/app/components/navigation-sidebar"; // Import
the navbar
import {
  Dialog,
  DialogContent,
  DialogDescription,
  DialogHeader,
  DialogTitle,
  DialogTrigger,
  DialogFooter,
  DialogClose,
} from "@/components/ui/dialog";
import generateEnhancedReport from "@/components/generate-enhanced-reports";

interface Device {
  id: string;
  name: string;
  type: string;
  room: string;
  status: "on" | "off";
  powerConsumption: number;
  lastStatusChange: number;
  totalEnergyConsumed: number;
}

interface Room {
  id: string;
  name: string;
}

// Original PDF generation function (kept for backward compatibility)
const generatePDF = async (devices: Device[], rooms: Room[]) => {
```

```

const pdfDoc = await PDFDocument.create();
const page = pdfDoc.addPage();
const { width, height } = page.getSize();
const fontSize = 12;

// Add title
page.drawText("Energy Consumption Report", {
  x: 50,
  y: height - 50,
  size: 20,
  color: rgb(0, 0, 0),
});

// Add date
const currentDate = new Date().toLocaleDateString();
page.drawText(`Generated on: ${currentDate}`, {
  x: 50,
  y: height - 80,
  size: fontSize,
  color: rgb(0.5, 0.5, 0.5),
});

// Add device usage table
page.drawText("Device Usage", {
  x: 50,
  y: height - 120,
  size: 16,
  color: rgb(0, 0, 0),
});

devices.forEach((device, index) => {
  page.drawText(`${device.name} (${device.type}): ${device.totalEnergyConsumed.toFixed(2)} kWh`, {
    x: 50,
    y: height - 150 - index * 20,
    size: fontSize,
    color: rgb(0, 0, 0),
  });
});

// Add room usage table
page.drawText("Room Usage", {
  x: 50,
  y: height - 300,
  size: 16,
  color: rgb(0, 0, 0),
});

rooms.forEach((room, index) => {
  const roomUsage = devices.filter((d) => d.room === room.name).reduce((sum, d) => sum + d.totalEnergyConsumed, 0);
  page.drawText(`${room.name}: ${roomUsage.toFixed(2)} kWh`, {
    x: 50,
    y: height - 300 + index * 20,
    size: 16,
    color: rgb(0, 0, 0),
  });
});

```

```

        x: 50,
        y: height - 330 - index * 20,
        size: fontSize,
        color: rgb(0, 0, 0),
    });
});

// Add charts
const charts = document.querySelectorAll(".chart-container");
for (let i = 0; i < charts.length; i++) {
    const chart = charts[i] as HTMLElement;

    // Add a style tag with the necessary font information
    const style = document.createElement("style");
    chart.prepend(style);

    const pngImage = await toPng(chart, {
        quality: 0.95,
        backgroundColor: "#ffffff",
        style: {
            // Add any additional styles here if needed
        },
    });

    // Remove the added style tag
    chart.removeChild(style);

    const image = await pdfDoc.embedPng(pngImage);

    page.drawImage(image, {
        x: 50,
        y: height - 500 - i * 300,
        width: 500,
        height: 250,
    });
}

const pdfBytes = await pdfDoc.save();
const blob = new Blob([pdfBytes], { type: "application/pdf" });
const link = document.createElement("a");
link.href = URL.createObjectURL(blob);
link.download = "energy_statistics.pdf";
link.click();
};

// New function to download enhanced reports from the backend
const downloadEnhancedReport = async (format: string, timeRange: string, toast: any)
=> {
    try {
        // Convert time range to date range
        const endDate = new Date().toISOString().split('T')[0]; // Today in YYYY-MM-DD
        format
    }
}

```

```

let startDate;

switch (timeRange) {
  case 'week':
    startDate = new Date(Date.now() - 7 * 24 * 60 * 60 *
1000).toISOString().split('T')[0];
    break;
  case 'month':
    startDate = new Date(Date.now() - 30 * 24 * 60 * 60 *
1000).toISOString().split('T')[0];
    break;
  case 'year':
    startDate = new Date(Date.now() - 365 * 24 * 60 * 60 *
1000).toISOString().split('T')[0];
    break;
  default: // day
    startDate = new Date(Date.now() - 1 * 24 * 60 * 60 *
1000).toISOString().split('T')[0];
}

// Get auth token from local storage, handling potential parsing errors
let token = "";
try {
  // Try to get the user object
  const userStr = localStorage.getItem("currentUser");
  if (userStr) {
    const user = JSON.parse(userStr);
    token = user.token || localStorage.getItem("authToken") || "";
  } else {
    // If no user object, try a direct token
    token = localStorage.getItem("authToken") || "";
  }
} catch (error) {
  console.error("Error parsing user data from localStorage:", error);
  // Try alternate token storage if the user object can't be parsed
  token = localStorage.getItem("authToken") || "";
}

if (!token) {
  toast({
    title: "Authentication Error",
    description: "You must be logged in to download reports.",
    variant: "destructive",
  });
  return;
}

// Call backend API
// Check if the token already has "Bearer " prefix, if not add it
const authToken = token.startsWith('Bearer ') ? token : `Bearer ${token}`;

console.log(`Making request to backend with time range: ${timeRange}`)

```

```

    ` ${startDate} to ${endDate})`);

    const response = await fetch(`/api/v1/reports/report?
format=${format}&start_date=${startDate}&end_date=${endDate}`, {
      method: 'POST',
      headers: {
        'Authorization': authToken,
        'Accept': 'application/octet-stream',
      },
    });

    if (!response.ok) {
      const errorData = await response.json();
      throw new Error(errorData.detail || "Failed to download report");
    }

    // Handle the file download
    const blob = await response.blob();
    const fileExtension = format === 'pdf' ? 'pdf' : 'csv';
    const fileType = format === 'pdf' ? 'application/pdf' : 'text/csv';

    // Create a download link and trigger it
    const fileURL = URL.createObjectURL(new Blob([blob], { type: fileType }));
    const downloadLink = document.createElement('a');
    downloadLink.href = fileURL;
    downloadLink.download = `energy_report_${new Date().toISOString().split('T')[0]}.${fileExtension}`;
    document.body.appendChild(downloadLink);
    downloadLink.click();
    document.body.removeChild(downloadLink);

    toast({
      title: "Report Downloaded",
      description: `Your ${format.toUpperCase()} report has been downloaded
successfully.`,
      variant: "default",
    });

  } catch (error) {
    console.error("Error downloading report:", error);
    toast({
      title: "Download Failed",
      description: error instanceof Error ? error.message : "Failed to download
report. Please try again.",
      variant: "destructive",
    });
  }
};

export default function StatisticsPage() {
  const router = useRouter();
  const [devices, setDevices] = useState<Device[]>([]);

```

```

const [rooms, setRooms] = useState<Room[]>([]);
const [timeRange, setTimeRange] = useState("day");
const [user, setUser] = useState<any>(null);
const [isReportDialogOpen, setIsReportDialogOpen] = useState(false);
const { toast } = useToast();

useEffect(() => {
  const currentUser = JSON.parse(localStorage.getItem("currentUser") || "{}");
  setUser(currentUser);

  const storedDevices = JSON.parse(localStorage.getItem("devices") || "[]");
  const storedRooms = JSON.parse(localStorage.getItem("rooms") || "[]");
  setDevices(storedDevices);
  setRooms(storedRooms);
}, [router]);

const handleRequestAccess = () => {
  toast({
    title: "Access Requested",
    description: "Your request for access to Statistical Data has been sent to the admin.",
  });
};

const filterDataByTimeRange = (data: any[]) => {
  if (data.length === 0) return [];

  const now = new Date();
  const startDate = new Date();

  switch (timeRange) {
    case "week":
      startDate.setDate(now.getDate() - 7);
      break;
    case "month":
      startDate.setMonth(now.getMonth() - 1);
      break;
    case "year":
      startDate.setFullYear(now.getFullYear() - 1);
      break;
    default: // day
      startDate.setDate(now.getDate() - 1);
  }

  return data.filter((item: any) => new Date(item.lastStatusChange) >= startDate);
};

const calculateRoomUsage = (roomName: string): number => {
  return devices
    .filter((device) => device.room === roomName)
    .reduce((total, device) => total + device.totalEnergyConsumed, 0);
};

```

```

const deviceData =
  devices.length > 0
    ? filterDataByTimeRange(devices).map((device) => ({
      name: device.name,
      usage: Number.parseFloat(device.totalEnergyConsumed.toFixed(2)),
    }))
    : [];

const roomData = rooms
  .map((room) => ({
    name: room.name,
    usage: Number.parseFloat(calculateRoomUsage(room.name).toFixed(2)),
  }))
  .filter((room) => room.usage > 0);

const deviceTypeData =
  devices.length > 0
    ? filterDataByTimeRange(devices).reduce(
      (acc, device) => {
        acc[device.type] = (acc[device.type] || 0) +
        device.totalEnergyConsumed;
        return acc;
      },
      {} as Record<string, number>
    )
    : {};

  const totalEnergyConsumed = devices.reduce((total, device) => total +
  device.totalEnergyConsumed, 0);

const containerVariants = {
  hidden: { opacity: 0 },
  visible: {
    opacity: 1,
    transition: {
      staggerChildren: 0.1,
    },
  },
};

const itemVariants = {
  hidden: { y: 20, opacity: 0 },
  visible: {
    y: 0,
    opacity: 1,
  },
};

if (!user) return null;

if (user.type === "household" && !user.permissions?.statisticalData) {

```

```

        return (
            <div className="min-h-screen bg-gray-50 flex items-center justify-
center">
                <Card className="w-full max-w-md">
                    <CardContent className="flex flex-col items-center justify-center
p-6">
                        <Lock className="w-12 h-12 text-gray-400 mb-4" />
                        <h3 className="text-lg font-semibold mb-2">Access Required</h3>
                        <p className="text-sm text-gray-500 text-center mb-4">
                            You don't have permission to view statistical data.
                        </p>
                        <Button onClick={handleRequestAccess}>Request Access</Button>
                    </CardContent>
                </Card>
            </div>
        );
    }

    return (
        <div className="min-h-screen bg-gray-50 flex">
            <NavigationSidebar />
            <div className="flex-1 ml-[72px]">
                <motion.div
                    initial="hidden"
                    animate="visible"
                    variants={containerVariants}
                    className="p-6"
                >
                    <motion.header variants={itemVariants} className="flex justify-
between items-center mb-8">
                        <div className="flex items-center gap-4">
                            <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-
[#0085FF] rounded-full flex items-center justify-center shadow-lg">
                                <BarChart2 className="h-6 w-6 text-white" />
                            </div>
                            <div>
                                <h1 className="text-2xl font-bold text-gray-800">Energy
Statistics</h1>
                                <p className="text-sm text-gray-500">Monitor and analyze your energy
consumption</p>
                            </div>
                            </div>
                        <div className="flex items-center gap-4">
                            <Select value={timeRange} onChange={setTimeRange}>
                                <SelectTrigger className="w-[180px] border-[#00B2FF] text-
[#00B2FF]">
                                    <SelectValue placeholder="Select time range" />
                                </SelectTrigger>
                                <SelectContent>
                                    <SelectItem value="day">Past 24 Hours</SelectItem>
                                    <SelectItem value="week">Past Week</SelectItem>
                                    <SelectItem value="month">Past Month</SelectItem>
                                </SelectContent>
                            </Select>
                        </div>
                    </motion.header>
                </motion.div>
            </div>
        </div>
    );
}


```

```
<SelectItem value="year">Past Year</SelectItem>
</SelectContent>
</Select>

/* Dialog for Enhanced Report Download */
<Dialog open={isReportDialogOpen} onOpenChange={setIsReportDialogOpen}>
    <DialogTrigger asChild>
        <Button
            variant="outline"
            size="icon"
            className="text-[#FF9500] border-[#FF9500] hover:bg-[#FF9500]
            hover:text-white"
        >
            <Download className="h-5 w-5" />
        </Button>
    </DialogTrigger>
    <DialogContent className="sm:max-w-md">
        <DialogHeader>
            <DialogTitle>Download Energy Report</DialogTitle>
            <DialogDescription>
                Choose the format for your energy consumption report
            </DialogDescription>
        </DialogHeader>
        <div className="grid grid-cols-2 gap-4 py-4">
            <Button
                onClick={() => {
                    downloadEnhancedReport('pdf', timeRange, toast);
                    setIsReportDialogOpen(false);
                }}
                className="flex flex-col items-center justify-center h-24 p-4 border
                rounded-lg hover:bg-blue-50"
                variant="outline"
            >
                <FileText className="h-8 w-8 mb-2 text-blue-600" />
                <span>PDF Report</span>
                <span className="text-xs text-gray-500">Rich visualizations</span>
            </Button>
            <Button
                onClick={() => {
                    downloadEnhancedReport('csv', timeRange, toast);
                    setIsReportDialogOpen(false);
                }}
                className="flex flex-col items-center justify-center h-24 p-4 border
                rounded-lg hover:bg-green-50"
                variant="outline"
            >
                <BarChart2 className="h-8 w-8 mb-2 text-green-600" />
                <span>CSV Data</span>
                <span className="text-xs text-gray-500">For data analysis</span>
            </Button>
        </div>
    </DialogContent>
</Dialog>
```

```

<DialogFooter className="sm:justify-between">
  <Button
    variant="ghost"
    onClick={() => {
      generatePDF(devices, rooms);
      setIsReportDialogOpen(false);
    }}
    className="text-gray-500"
  >
    Use Legacy Report
  </Button>
  <DialogClose asChild>
    <Button type="button" variant="secondary">
      Cancel
    </Button>
  </DialogClose>
</DialogFooter>
</DialogContent>
</Dialog>

<Button
  variant="outline"
  size="icon"
  className="text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]
  hover:text-white"
>
  <User className="h-5 w-5" />
</Button>
</div>
</motion.header>

<motion.div variants={containerVariants} className="grid grid-cols-1
md:grid-cols-3 gap-6 mb-8">
  <motion.div variants={itemVariants}>
    <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
white">
      <CardHeader>
        <CardTitle className="text-lg font-medium">Total Energy
Consumed</CardTitle>
      </CardHeader>
      <CardContent>
        <div className="text-3xl font-bold">{totalEnergyConsumed.toFixed(2)}  

kWh</div>
        <p className="text-sm opacity-80">in the selected time range</p>
      </CardContent>
    </Card>
  </motion.div>
  <motion.div variants={itemVariants}>
    <Card className="bg-gradient-to-br from-[#FF9500] to-[#FFB800] text-
white">
      <CardHeader>
        <CardTitle className="text-lg font-medium">Active

```

```

Devices</CardTitle>
    </CardHeader>
    <CardContent>
        <div className="text-3xl font-bold">{devices.filter((d) => d.status
==== "on").length}</div>
        <p className="text-sm opacity-80">out of {devices.length} total
devices</p>
    </CardContent>
    </Card>
    </motion.div>
    <motion.div variants={itemVariants}>
        <Card className="bg-gradient-to-br from-[#00B2FF] to-[#0085FF] text-
white">
            <CardHeader>
                <CardTitle className="text-lg font-medium">Most Active
Room</CardTitle>
            </CardHeader>
            <CardContent>
                <div className="text-3xl font-bold">
                    {roomData.length > 0 ? roomData.reduce((a, b) => (a.usage > b.usage
? a : b)).name : "No data"}
                </div>
                <p className="text-sm opacity-80">based on energy consumption</p>
            </CardContent>
            </Card>
            </motion.div>
            </motion.div>

            <motion.div variants={itemVariants}>
                <Tabs defaultValue="devices" className="space-y-6">
                    <TabsList className="bg-white shadow-md rounded-lg p-1">
                        <TabsTrigger value="devices" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                            <BarChart2 className="h-4 w-4 mr-2" />
                            Devices
                        </TabsTrigger>
                        <TabsTrigger value="rooms" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                            <PieChartIcon className="h-4 w-4 mr-2" />
                            Rooms
                        </TabsTrigger>
                        <TabsTrigger value="overview" className="data-[state=active]:bg-
[#00B2FF] data-[state=active]:text-white">
                            <TrendingUp className="h-4 w-4 mr-2" />
                            Overview
                        </TabsTrigger>
                    </TabsList>
                    <TabsContent value="devices" className="space-y-6">
                        <Card>
                            <CardHeader>
                                <CardTitle className="text-xl font-semibold text-gray-800">Energy
Usage by Device</CardTitle>

```

```

        </CardHeader>
        <CardContent>
        <div className="chart-container">
        {deviceData.length > 0 ? (
            <BarChart data={deviceData} />
        ) : (
            <p className="text-center text-gray-500">No data available for the
selected time range</p>
        )
    </div>
    </CardContent>
</Card>
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Device
Usage Over Time</CardTitle>
</CardHeader>
<CardContent>
<div className="chart-container">
{deviceData.length > 0 ? (
    <LineChart data={deviceData} />
) : (
    <p className="text-center text-gray-500">No data available for the
selected time range</p>
)
</div>
</CardContent>
</Card>
</TabsContent>
<TabsContent value="rooms" className="space-y-6">
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Energy Usage
by Room</CardTitle>
</CardHeader>
<CardContent>
<div className="chart-container">
{roomData.length > 0 ? (
    <BarChart data={roomData} />
) : (
    <p className="text-center text-gray-500">No data available for the
selected time range</p>
)
</div>
</CardContent>
</Card>
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Room Usage Over
Time</CardTitle>
</CardHeader>
<CardContent>

```

```
<div className="chart-container">
{roomData.length > 0 ? (
  <LineChart data={roomData} />
) : (
  <p className="text-center text-gray-500">No data available for the
selected time range</p>
)}
</div>
</CardContent>
</Card>
</TabsContent>
<TabsContent value="overview" className="space-y-6">
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Energy Usage by
Device Type</CardTitle>
</CardHeader>
<CardContent>
<div className="chart-container">
{Object.keys(deviceTypeData).length > 0 ? (
  <PieChart
    data={Object.entries(deviceTypeData).map(([name, usage]) => ({
      name,
      usage: Number.parseFloat(usage.toFixed(2)),
    }))}
  />
) : (
  <p className="text-center text-gray-500">No data available for the selected
time range</p>
)}
</div>
</CardContent>
</Card>
<Card>
<CardHeader>
<CardTitle className="text-xl font-semibold text-gray-800">Total Energy
Consumption Trend</CardTitle>
</CardHeader>
<CardContent>
<div className="chart-container">
{deviceData.length > 0 ? (
  <LineChart data={deviceData} />
) : (
  <p className="text-center text-gray-500">No data available for the selected
time range</p>
)}
</div>
</CardContent>
</Card>
</TabsContent>
</Tabs>
</motion.div>
```

```

        </motion.div>
    </div>
    </div>
);
}

}

```

## app/suggestions/page.tsx

```

// suggestions/page.tsx
"use client"

import { useState, useEffect } from "react"
import { Card,CardContent,CardHeader,CardTitle } from "@/components/ui/card"
import { Button } from "@/components/ui/button"
import { Badge } from "@/components/ui/badge"
import { Download, User, Lightbulb, ThermometerSun, Timer, Fan, ArrowRight, Zap } from "lucide-react"
import { motion } from "framer-motion"
import { NavigationSidebar } from "@/app/components/navigation-sidebar";

const adminSuggestions = [
{
    title: "Optimize Air Conditioning",
    description: "Your bedroom AC has been running continuously for 8 hours. Setting up a schedule could save energy.",
    icon: Fan,
    iconColor: "text-blue-500",
    saving: "Potential saving: 120 kWh/month",
    impact: "Environmental Impact: Reduce CO2 emissions by 60kg",
    action: "Setup Schedule",
    details: [
        "Current Usage: 8 hours continuous operation",
        "Recommended: 15-minute intervals with 2°C adjustment",
        "Peak hours detected: 2 PM - 5 PM",
    ],
    category: "Energy Efficiency",
},
{
    title: "Smart Lighting Pattern Detected",
    description: "We noticed regular lighting patterns in your living room. Would you like to automate this?",
    icon: Lightbulb,
    iconColor: "text-yellow-500",
    saving: "Potential saving: 45 kWh/month",
    impact: "Convenience: Automate daily routines",
    action: "Create Automation",
    details: [
        "Pattern detected: Lights on 6 PM - 11 PM",
        "Affects: Living Room, Kitchen",
        "Suggested: Gradual dimming by time",
    ],
}
]

```

```

        ],
        category: "Automation",
    },
    {
        title: "Temperature Optimization",
        description: "Your home's temperature varies significantly throughout the day. Let's optimize it.",
        icon: ThermometerSun,
        iconColor: "text-red-500",
        saving: "Potential saving: AED 150/month",
        impact: "Comfort: Maintain optimal temperature",
        action: "View Analysis",
        details: ["Current range: 19°C - 26°C", "Recommended: 23°C - 24°C", "Affected rooms: Bedroom, Living Room"],
        category: "Energy Efficiency",
    },
    {
        title: "Off-Peak Usage Opportunity",
        description: "Running your washing machine during off-peak hours could reduce your electricity bill.",
        icon: Timer,
        iconColor: "text-green-500",
        saving: "Potential saving: AED 80/month",
        impact: "Grid Impact: Reduce peak load stress",
        action: "See Off-Peak Hours",
        details: ["Peak hours: 2 PM - 6 PM", "Off-peak rates: 11 PM - 5 AM", "Applicable to: Washing Machine, Dishwasher"],
        category: "Cost Saving",
    },
]
]

const householdSuggestions = [
{
    title: "Room Temperature Alert",
    description: "Your room temperature is set to 19°C. Consider increasing it to save energy.",
    icon: ThermometerSun,
    iconColor: "text-red-500",
    saving: "Potential saving: 30 kWh/month",
    impact: "Personal Comfort: Maintain optimal temperature",
    action: "Adjust Temperature",
    details: ["Current: 19°C", "Recommended: 23°C", "Energy usage: Above average"],
    category: "Energy Efficiency",
},
{
    title: "Lighting Reminder",
    description: "Lights in your room are often left on when you're away.",
    icon: Lightbulb,
    iconColor: "text-yellow-500",
    saving: "Potential saving: 15 kWh/month",
    impact: "Easy Fix: Use motion sensors",
    action: "Enable Auto-off",
}
]
```

```

        details: ["Pattern: Lights left on 2+ hours", "Suggestion: Enable motion detection", "Applies to: Your bedroom"],
        category: "Energy Efficiency",
    },
]

export default function SuggestionsPage() {
    const [suggestions, setSuggestions] = useState(adminSuggestions)
    const [userType, setUserType] = useState<"admin" | "household">("admin")

    useEffect(() => {
        const currentUser = JSON.parse(localStorage.getItem("currentUser") || '{"type": "admin"}')
        setUserType(currentUser.type)
        setSuggestions(currentUser.type === "admin" ? adminSuggestions : householdSuggestions)
    }, [])

    const containerVariants = {
        hidden: { opacity: 0 },
        visible: {
            opacity: 1,
            transition: {
                staggerChildren: 0.1,
            },
        },
    }

    const itemVariants = {
        hidden: { y: 20, opacity: 0 },
        visible: {
            y: 0,
            opacity: 1,
        },
    }

    return (
        <div className="min-h-screen bg-gray-50">
            <NavigationSidebar /> {/* Add the navbar here */}
            <div className="ml-[72px]">
                <motion.div initial="hidden" animate="visible" variants={containerVariants}>
                    <div className="p-6">
                        <motion.header variants={itemVariants} className="flex justify-between items-center mb-6">
                            <div className="flex items-center gap-4">
                                <div className="w-12 h-12 bg-gradient-to-br from-[#00B2FF] to-[#0085FF] rounded-full flex items-center justify-center shadow-lg">
                                    <Zap className="h-6 w-6 text-white" />
                                </div>
                                <div>
                                    <h1 className="text-2xl font-bold text-gray-800">Smart
                                    Suggestions</h1>
                                </div>
                            </div>
                        </motion.header>
                    </div>
                </motion.div>
            </div>
        </div>
    )
}

```

```

        <p className="text-sm text-gray-500">Optimize your home's energy
usage</p>
        </div>
    </div>
    <div className="flex gap-2">
        <Button
            variant="outline"
            size="icon"
            className="text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]
hover:text-white"
        >
            <Download className="h-5 w-5" />
        </Button>
        <Button
            variant="outline"
            size="icon"
            className="text-[#00B2FF] border-[#00B2FF] hover:bg-[#00B2FF]
hover:text-white"
        >
            <User className="h-5 w-5" />
        </Button>
    </div>
</motion.header>

<motion.div variants={containerVariants} className="grid grid-cols-1
md:grid-cols-2 gap-6">
    {suggestions.map((suggestion, index) => (
        <motion.div key={suggestion.title} variants={itemVariants}>
            <Card className="overflow-hidden hover:shadow-lg transition-shadow
duration-300">
                <CardHeader className="bg-gradient-to-r from-[#00B2FF] to-[#0085FF]
pb-8 relative">
                    <CardTitle className="text-white text-xl mb-2">{suggestion.title}
                </CardTitle>
                    <p className="text-white/80 text-sm">{suggestion.description}</p>
                    <div className="absolute bottom-0 right-0 transform translate-y-
1/2 mr-6">
                        <div className="w-12 h-12 rounded-full bg-white flex items-
center justify-center shadow-lg">
                            <suggestion.icon className={`w-6 h-6 ${suggestion.iconColor}}`}>
                        </div>
                    </div>
                </CardHeader>
                <CardContent className="pt-8">
                    <div className="space-y-4">
                        <div>
                            <Badge variant="secondary" className="mb-2">
                                {suggestion.category}
                            </Badge>
                            <p className="text-sm font-medium text-green-600">
{suggestion.saving}</p>

```

```
        <p className="text-sm text-gray-600">{suggestion.impact}</p>
      </div>
      <div className="space-y-2">
        {suggestion.details.map((detail, idx) => (
          <div key={idx} className="flex items-center text-sm text-
gray-600">
            <div className="w-1.5 h-1.5 rounded-full bg-[#00B2FF] mr-
2" />
            {detail}
          </div>
        )))
      </div>
      <Button className="w-full bg-[#00B2FF] hover:bg-[#00B2FF]/90">
        {suggestion.action}
        <ArrowRight className="ml-2 h-4 w-4" />
      </Button>
    </div>
  </CardContent>
</Card>
</motion.div>
))})
</motion.div>
</motion.div>
</div>
</div>
)
}
```