Apnea Solution: Noddy

Noddy™ is a smart sleep-tracking ring with built-in sensors and a magnetic charger. It connects to a mobile app via Bluetooth, where users can access a simple dashboard with their sleep and breathing analysis.

Product Name:
Noddy™ – Smart Sleep Apnea Detection Ring

Patent Application Title:
Wearable Ring System for Continuous Sleep Apnea Detection Using Integrated Sensors and Wireless Reporting





Welcome to Noddy

Your journey to better sleep and clearer breathing starts here.

Get Started

What Noddy Does

Understanding your sleep health, simplified

Tracks Breathing
Monitors your breathing patterns throughout the night

Detects Apnea Events
Identifies possible sleep apnea episodes

Monitors Oxygen
Tracks oxygen level drops during sleep

Daily Insights
Provides personalized sleep analysis each morning

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How We Detect Sleep Apnea

Understanding the science behind Noddy

Oxygen Drop Patterns
When you stop breathing, your blood oxygen level drops. Noddy detects these patterns and counts how many times it happens per hour.

Heart Rate Changes
During apnea episodes, your heart rate changes in specific patterns. We monitor these fluctuations throughout the night.

Movement Indicates Breathing
Your finger's micro-movements and blood flow changes help us understand when breathing becomes irregular or stops.

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Your Information

This helps us provide accurate sleep apnea insights

Full Name

Enter your name

Age

Age

Biological Sex

Select

Height (cm)

170

Weight (kg)

70

Neck Circumference (cm) - Optional

e.g., 38

Email

your@email.com

Phone Number

+1 (555) 000-0000

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Sleep & Snoring History

These questions help identify sleep apnea risk

Do you snore?

- (•) Never
- ( ) Occasionally
- ( ) Frequently
- ( ) Every Night

Does anyone observe you stop breathing at night?

- ( ) Yes
- ( ) No
- (•) Not Sure

How tired are you during the day?

Not Tired — Very Tired

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- (•) Not Sure

How tired are you during the day?

Not Tired — Very Tired

Do you wake up gasping for air?

- ( ) Yes
- (•) No
- ( ) Sometimes

Do you experience morning headaches?

- ( ) Yes
- (•) No
- ( ) Sometimes

Any existing diagnoses? (Select all that apply)

- ( ) Sleep Apnea (Mild)

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Do you experience morning headaches?

- ○ Yes
- ◉ No
- ○ Sometimes

Any existing diagnoses? (Select all that apply)

- ○ Sleep Apnea (Mild)
- ○ Sleep Apnea (Moderate)
- ○ Sleep Apnea (Severe)
- ○ Insomnia
- ○ Restless Leg Syndrome
- ○ Heart Condition
- ○ Respiratory Condition
- ○ None

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Connect Your Noddy Ring

Make sure your ring is charged and nearby

1. **Enable Bluetooth**
   Make sure Bluetooth is on
2. **Position Ring**
   Wear snugly on your index or middle finger
3. **Check LED**
   Green LED means sensors are active

Device Connected

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Your Data is Encrypted

All your sleep data is encrypted both in transit and at rest using industry-standard encryption protocols.

We Don't Sell Your Data

Your personal health information will never be sold to third parties. Your data belongs to you.

You Control Your Data

You can export or delete your data at any time. You decide who gets access to your sleep reports.

We use your data solely to provide sleep apnea insights and improve our service. We may use anonymized, aggregated data for research purposes.

☑ I have read and agree to the privacy policy and terms of service. I consent to Noddy collecting and processing my sleep data.

Accept & Continue

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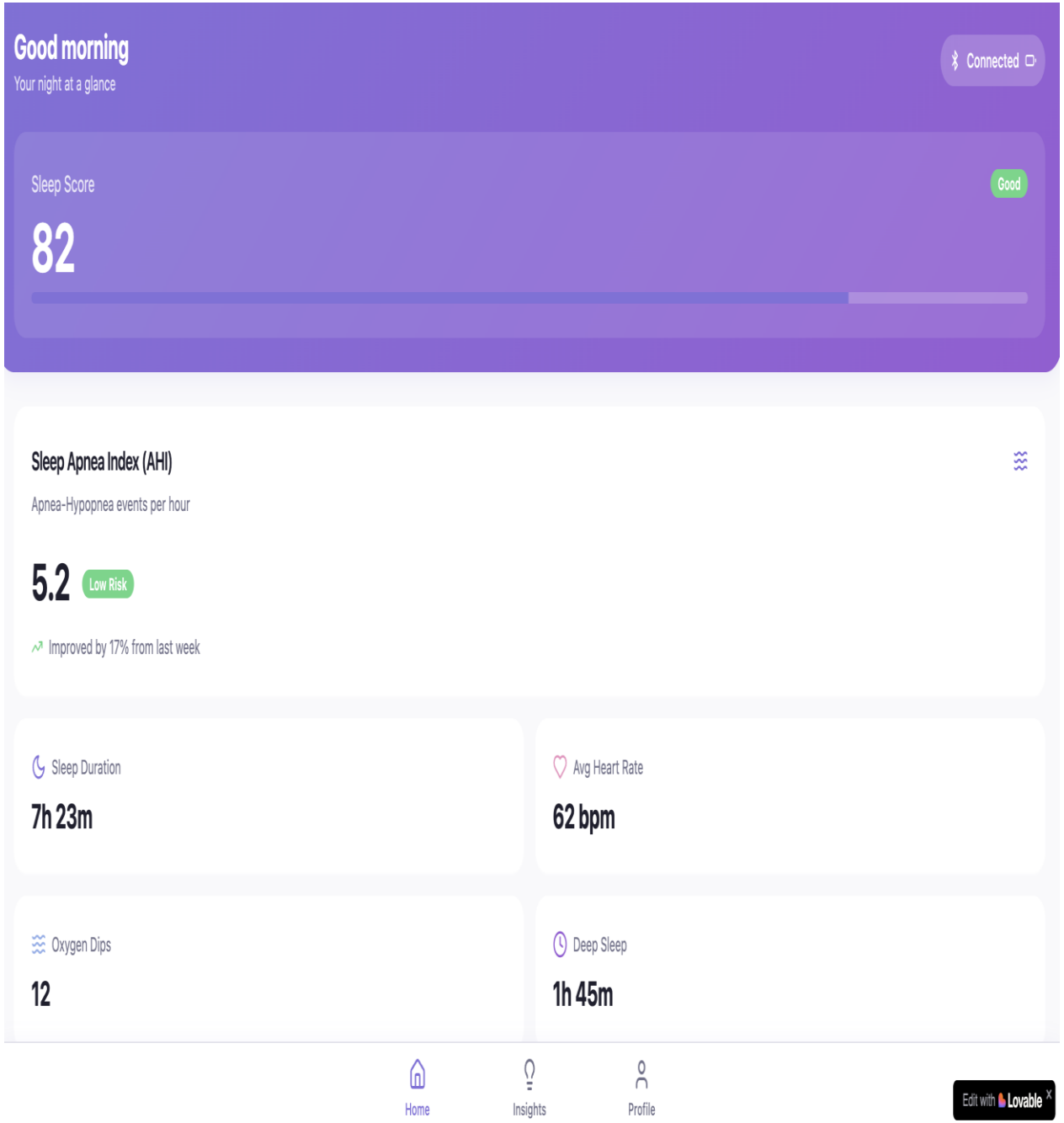
You're All Set!

Tonight Noddy will track your breathing patterns, oxygen levels, and sleep quality. In the morning, your personalized sleep apnea insights will be ready.

Before You Sleep:

- ✓ Wear your Noddy Ring snugly
- ✓ Check that the green LED is on
- ✓ Place your phone nearby (Bluetooth range)

Start Sleeping Better



Personal Insights

Personalized coaching for better sleep

Sleep Report for Your Doctor

Generate a comprehensive PDF report with your sleep data

Generate PDF Report

Recent Insights

Oxygen Levels Improving

Your oxygen dips improved by 17% since last week. Keep up the good work!

Sleep Position Matters

Your apnea episodes are more frequent when sleeping on your back. Try sleeping on your side.

Consider Medical Evaluation

Action Needed

You've had moderate oxygen dips for 3 consecutive nights. We recommend consulting with a sleep specialist.

Bedtime Goal

10:30 PM

Snoring Frequency

Rarely or never

Notifications

Manage your notification preferences

Evening Reminder
Remind me to wear the ring

Morning Insights
Daily sleep analysis report

Oxygen Alerts
Alert on significant SpO_2 drops

Privacy & Data

Help & Support

Sign Out

Edit with Lovable