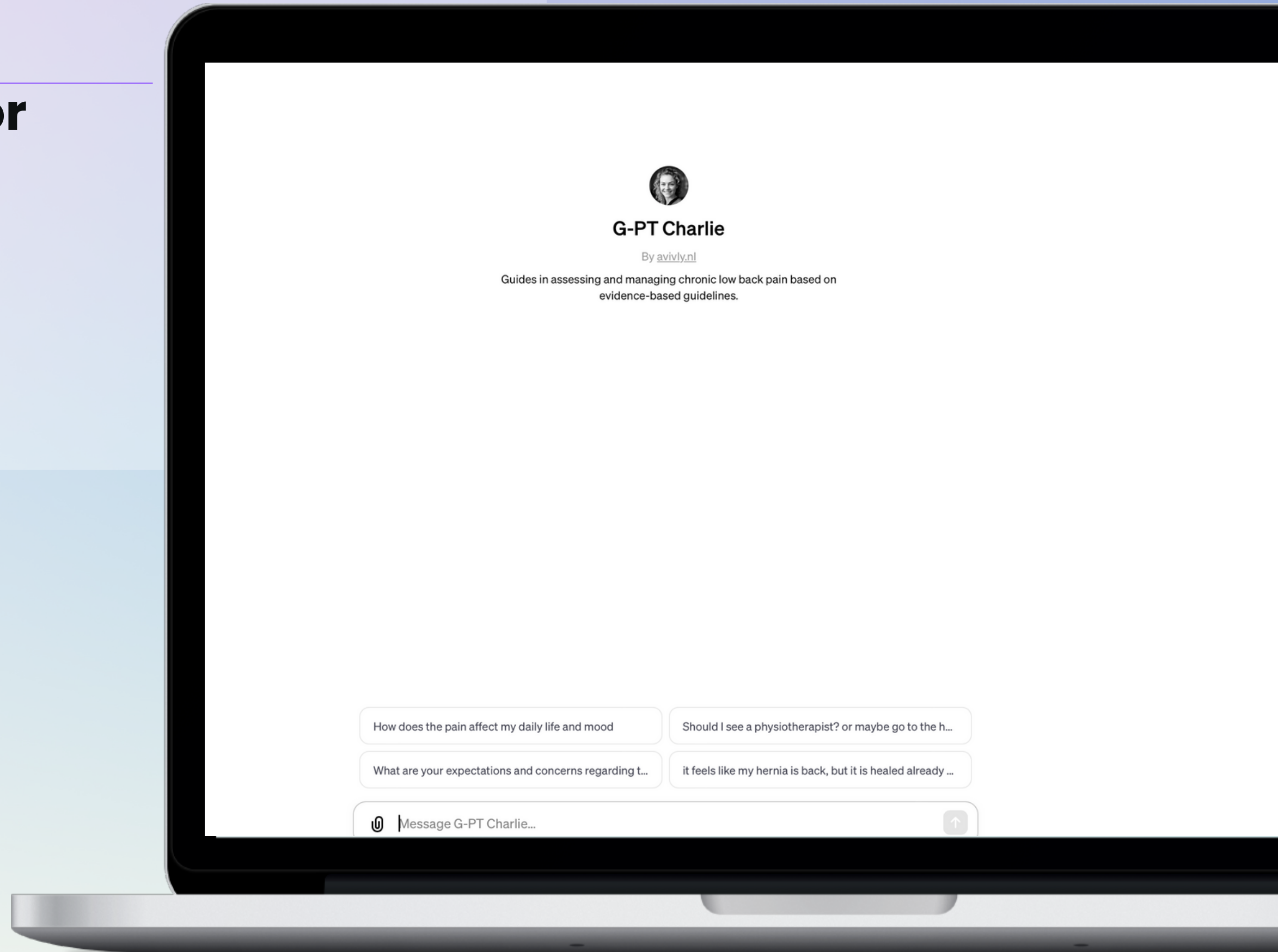


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Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care



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PROBLEM

- **Complexity of Chronic Back Pain Management**
- **Frequent Referrals Leading to Patient Frustration**
- **Underutilization of Clinical Decision-Making Tools**

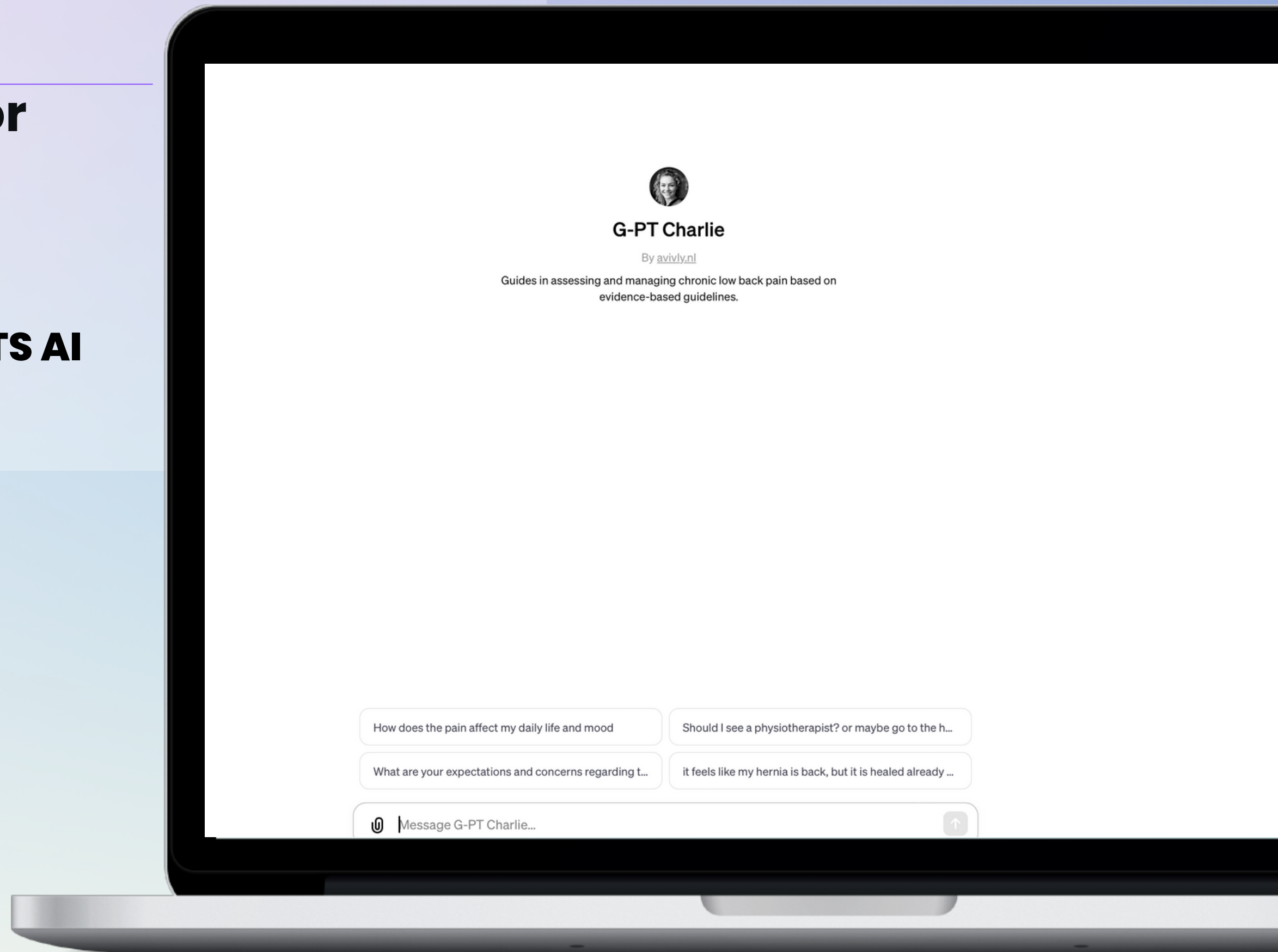


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WHERE COMPASSIONATE CARE MEETS AI PRECISION

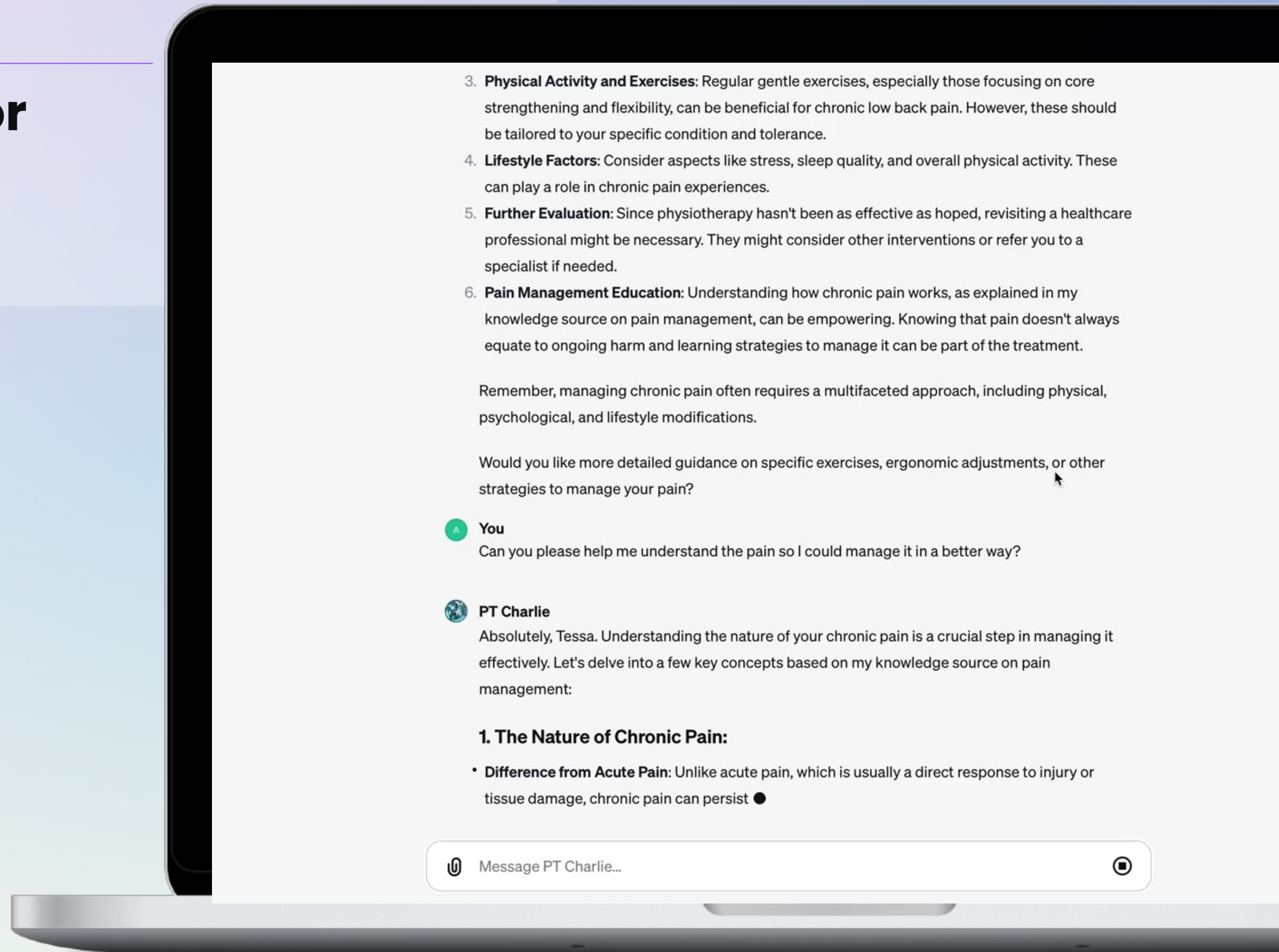
- Real-Time EBP Integration
- Conversational Health Analysis
- Seamless Referral Recommendations
- Tailored Care Suggestions



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SOLUTION

- Real-Time EBP Integration
- Conversational Health Analysis
- Seamless Referral Recommendations
- Tailored Care Suggestions (only EBP)



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USING PUBMED API

Schema

```
openapi: 3.0.0
info:
  title: PT Charlie PubMed Interface
  description: API interface for PT Charlie to interact with PubMed for evidence-based practices in chronic management.
  version: 1.0.0
servers:
  - url: https://api.pubmed.gov
    description: PubMed API for medical literature search
paths:
  /literatureSearch:
    get:
      operationId: searchLiterature
      summary: Search PubMed for literature related to chronic low back pain.
      parameters:
        - name: query
          in: query
          required: true
          description: Search query for PubMed literature, focused on chronic low back pain topics.
          schema:
            type: string
      responses:
        "200":
          description: A list of relevant literature from PubMed
```

Available actions

Name	Method	Path
searchLiterature	GET	/literatureSearch

I am Tessa, I am a Dutch company owner, I am 44 years old, recently divorced, and suffering from chronic low back pain for the last 2 years. I would like to know if you can help me?



Message PT Charlie...

PTCHARLIE 2.0

Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care

HOW DOES IT WORK

- Utilizes evidence-based practices (EBP) from sources like PubMed
- Analyzes patient data to create tailored treatment plans
- Identifies at-risk patients for early intervention and prevention
- Connects patients with appropriate healthcare providers
- Using clinical decision-making tool to provide the outcome

```
"Smoking":0,  
"Previous_back_surgery":1,  
"Number_of_surgeries":2,  
"Use_of_analgesics":0,  
"Social_status":"Living together",  
"Social_support":0,  
"Employed":1,  
"Work_satisfaction":1,  
"Sick_leave":1,  
"Duration_Back_pain":"1-2 years",  
"Duration_Leg_pain":">2 years",  
"Back_pain_intensity":9,  
"Leg_pain_intensity":7,  
"Comorbidities":"Other",  
"Loss_of_neurological_function":0,  
"Incontinence":0,  
"Numbness_leg_foot":1,  
"Loss_of_muscle_strength":1,  
"Paresthesia_leg_foot":0,  
"Anxiety":"Low",  
"Somatization":"Strongly agree",  
"Expectations_return_to_work":"Keep receiving disability pensions",  
"Walking_distance":">1 km",  
"Practice_sports":"No",  
"Disability_in_leisure_activities":1,  
"Bothersomeness":1,  
"Pain_intensity_back":10,  
"Pain_intensity_leg":3,  
"Distress":"High",  
"Coping":"Poor",  
"Functioning_daily_activities":"Moderate",  
"Physical_functioning":"Moderate".
```

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Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care

PERSONALISED ERGONOMICS ADVICE

- Chair adjustments
- Desk Height Setup
- Monitor Position
- Visuals

well can you create a visuals of the ergonomic settings?

PT Charlie



Here is a visual representation of an ergonomic office workstation setup tailored to your needs.

This setup includes key elements such as:

- The 27-inch Mac monitor placed at eye level, possibly elevated on a stand or books.
- A chair with added lumbar support cushion.
- The user's feet are flat on the floor or on a footrest, with knees at hip level.
- Forearms are parallel to the floor while typing, with the keyboard and mouse within easy reach.
- Relaxed shoulder posture with elbows close to the body at about a 90-degree angle.
- Proper lighting to reduce glare on the monitor.
- Optional ergonomic accessories like a wrist rest for the keyboard and mouse.

This visual guide should help you adjust your workstation to be more ergonomic and comfortable, especially for managing your back pain.

📎 That is great! thank you! now I would like to have in a table an s



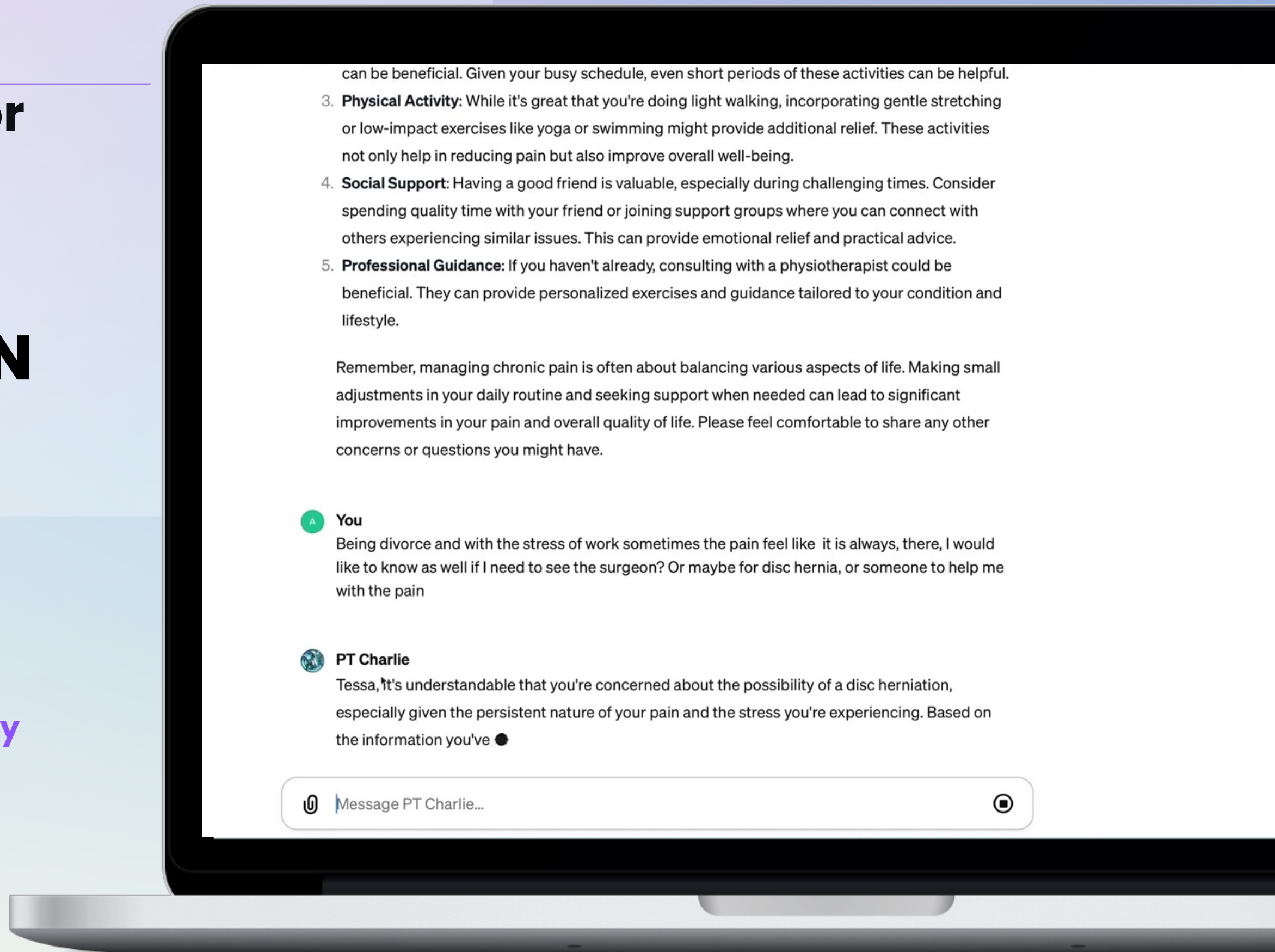
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FRONTEND INTERACTION

Patient-Centric Approach for Comfort and Engagement

- Conversational AI fosters empathy and trust through natural dialogue
- Personalized interactions greet patients by name and tailor discussions
- Engaging experience makes CLBP management more enjoyable

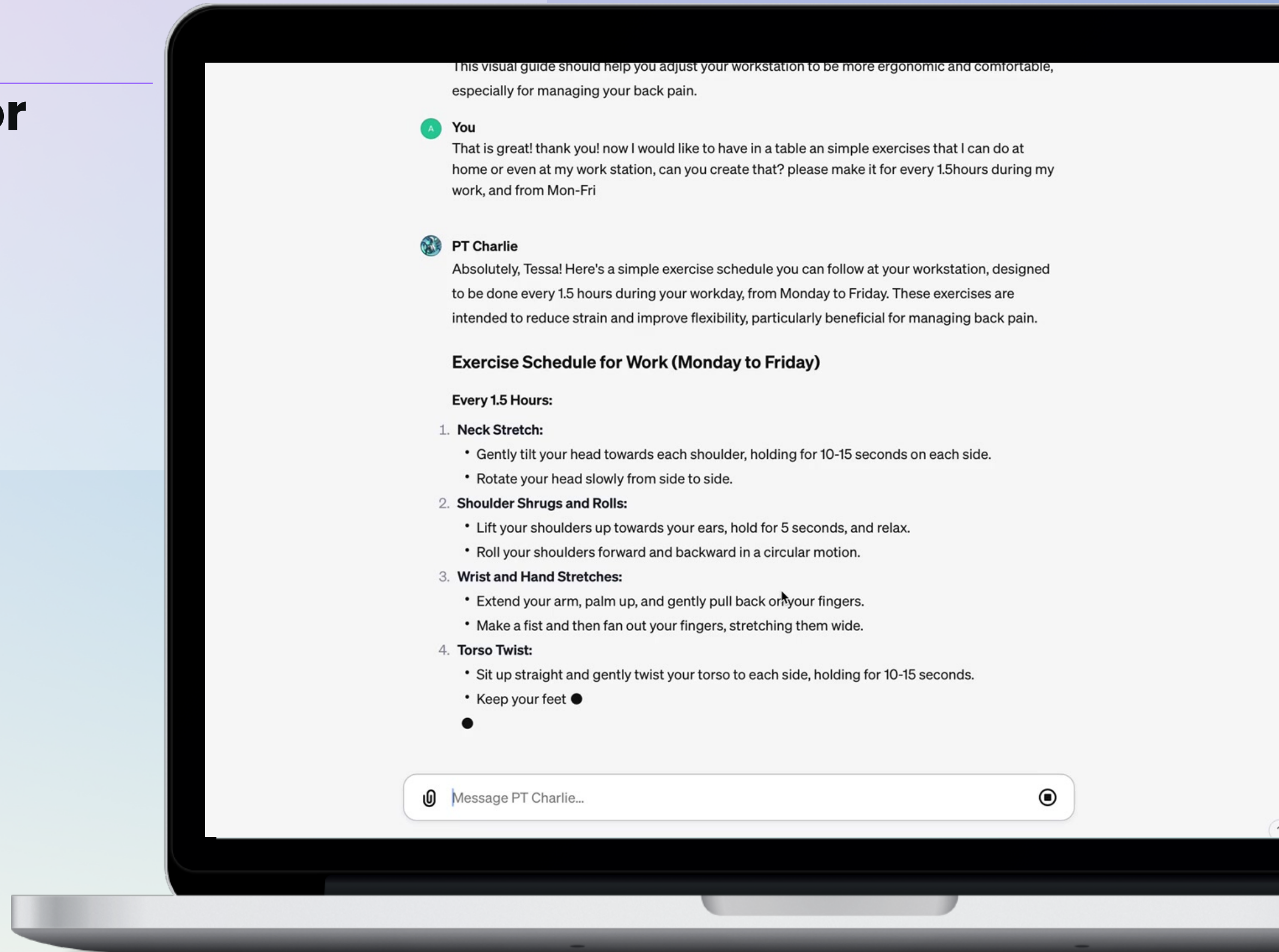


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PERSONALIZED DOWNLOADABLE EXERCISE PLAN

- A weekly schedule
- Downable in PDF/CSV Format
- Visuals are provided too!



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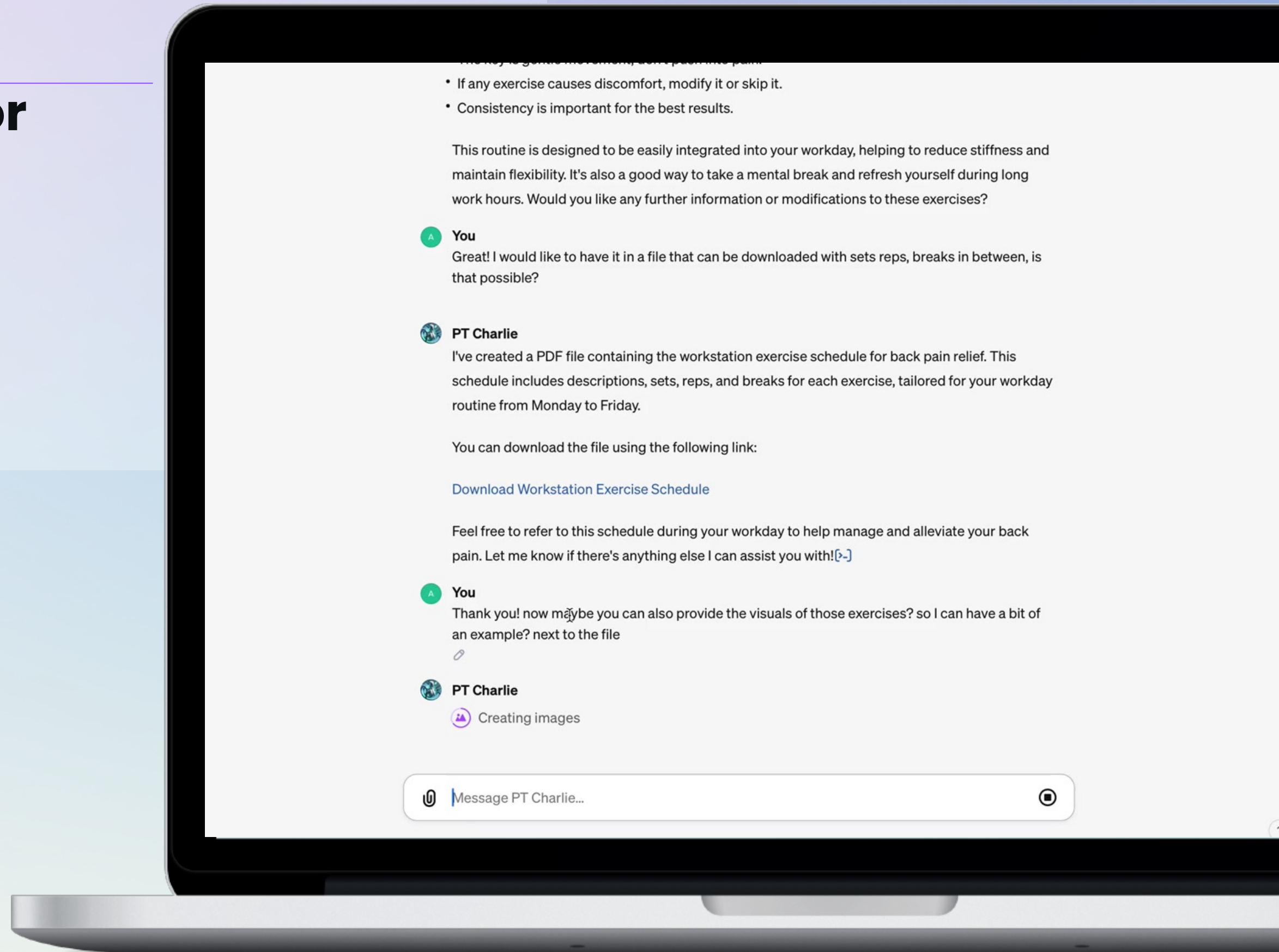
Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care

PERSONALIZED DOWNLOADABLE EXERCISE PLAN

A weekly schedule

Downable in PDF/CSV Format

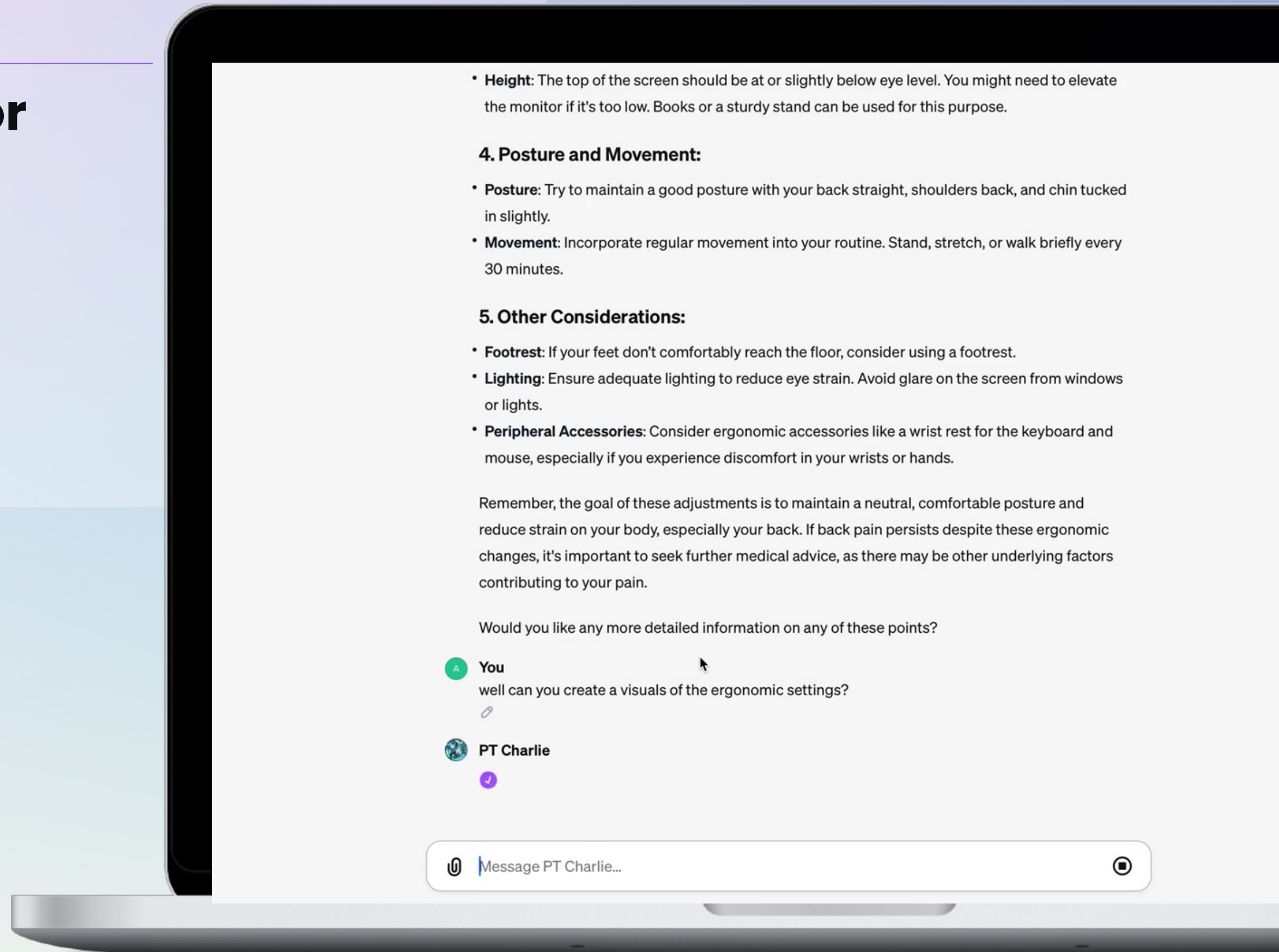
Visuals are provided too!



Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care

PERSONALISED ERGONOMICS ADVICE

- Chair adjustments
- Desk Height Setup
- Monitor Position
- Visuals



Your AI Chatbot Assistant for Evidence-Based Chronic Back Pain Care

FINDING YOUR RIGHT CARE

● USING PATIENT SYNTHETIC DATA FROM THE KNOWLEDGE BASE

