DBT Skills Integration - MindBot Knowledge Base

Overview

MindBot now has comprehensive DBT (Dialectical Behavior Therapy) knowledge integrated throughout the system, based on the DBT Skills Manual adapted for:

- Adolescents (DBT-A) shorter, relatable exercises
- Addiction (DBT-S) craving management and relapse prevention
- Complex PTSD (DBT-PTSD) trauma-informed grounding techniques

& Core DBT Modules

1. Mindfulness (Achtsamkeit)

Goals: Present-moment awareness, distance from thoughts, self-regulation

Skills Available:

- 5-4-3-2-1 Grounding: Sensory awareness exercise (5 things you see, 4 feel, 3 hear, 2 smell, 1 taste)
- Hand as Anchor: Breath focus with hand on belly

Best For: PTSD triggers, anxiety, grounding, beginners

2. Stress Tolerance (Stresstoleranz)

Goals: Endure crises without impulsive actions

Skills Available:

- **STOP Skill**: Stop → Take a step back → Observe → Proceed mindfully
- TIPP: Temperature (cold water/ice) → Intense Exercise → Paced Breathing → Paired Muscle Relaxation
- Skill Box: Physical tools (rubber band, essential oils, ice cube)

Best For: Crisis, panic attacks, self-harm urges, impulsivity

3. Emotion Regulation (Emotionsregulation)

Goals: Recognize, control, and tolerate emotions

Skills Available:

- **Emotion Diary**: Track emotion, intensity, trigger, and reaction
- Opposite Action: Act opposite to maladaptive emotional urge
 - Fear → approach instead of avoid

- Sadness → activate instead of withdraw
- Anger → gentle actions instead of aggression
- Self-Care Checklist: Sleep, nutrition, movement, social contacts

Best For: Emotional dysregulation, depression, anxiety, anger

4. Interpersonal Effectiveness (Zwischenmenschliche Fertigkeiten)

Goals: Clear communication, express needs, stabilize relationships

Skills Available:

- **DEAR MAN**: Describe → Express → Assert → Reinforce → Mindful → Appear confident → Negotiate
- **GIVE**: Gentle → Interested → Validate → Easy manner
- **FAST**: Fair → Apologies (no unnecessary) → Stick to values → Truthful

Best For: Relationship conflicts, boundary setting, communication issues

5. Trauma-Specific Skills (DBT-PTSD)

Goals: Manage flashbacks, intrusions, nightmares

Skills Available:

- 5-4-3-2-1 **Grounding**: Return to present during flashback
- Flashback Stop: Say "STOP!" → Orient to here/now → Ground → Self-soothe
- Nightmare Management: Write nightmare → Develop positive alternative → Rehearse

Best For: PTSD, flashbacks, dissociation, nightmares

Al Integration

System Prompt Enhancement

The AI now has comprehensive DBT knowledge in its system prompt:

- Knows all 5 DBT modules and when to use them
- Can proactively recommend skills based on user's emotional state
- Provides clear, step-by-step instructions
- Matches recommendations to specific populations (adolescent, addiction, trauma)

Al Tools Available

- 1. getDBTSkill(category, skillName) Fetch specific DBT skill instructions
- 2. recommendDBTSkill(issue) Get skill recommendations based on user's issue

Automatic Skill Recommendations

The AI automatically suggests DBT skills when users mention:

- Crisis/panic → TIPP, STOP Skill, 5-4-3-2-1
- Self-harm urges → Skill Box, TIPP
- Flashbacks → Flashback Stop, 5-4-3-2-1
- Addiction cravings → Mindfulness, STOP Skill
- **Emotional dysregulation** → Opposite Action, Emotion Diary
- Relationship conflicts → DEAR MAN, GIVE, FAST
- Impulsivity → STOP Skill

Clinical Note Integration

Crisis Detection Enhanced

Clinical notes now detect both English and German crisis keywords:

- English: suicide, self-harm, kill myself, cutting, hopeless, etc.
- German: suizid, selbstmord, ritzen, hoffnungslos, kein ausweg, etc.

DBT Skill Usage Tracking

Clinical notes can track which DBT skills are recommended and used during conversations.

API Endpoints

DBT Skills API

- GET /api/dbt/skills Get summary of all DBT skills
- GET /api/dbt/skill/:category Get all skills in a category
- GET /api/dbt/instructions/:category/:skillName Get detailed skill instructions
- POST /api/dbt/recommend Get skill recommendations for specific issue

Example:

```
// Get TIPP skill instructions
GET /api/dbt/instructions/stressTolerance/TIPP

// Recommend skills for anxiety
POST /api/dbt/recommend
{ "issue": "I'm feeling anxious and overwhelmed" }
```

Frontend UI

New DBT Skills Card

Added to dashboard with quick-access buttons:

• Crisis Skills (TIPP) - Immediate crisis management

• Grounding (5-4-3-2-1) - Return to present moment

Skills display with:

- Formatted instructions with bold headings
- Step-by-step guidance
- · Dark background with cyan accent border
- · Proper line spacing for readability

Crisis Response

Enhanced Crisis Protocol

When crisis keywords detected:

- 1. Immediate hotline numbers: 988 (Suicide & Crisis Lifeline), 741741 (Crisis Text Line)
- 2. TIPP Skills provided immediately for crisis management
- 3. **STOP Skill** for impulse control
- 4. Clinical note auto-generated with "urgent" severity
- 5. Recommendations include immediate intervention steps

Knowledge Base Structure

Files Created

- 1. data/dbt-knowledge.js Complete DBT manual in structured format
- 2. services/dbtService.js Service layer for DBT skill retrieval and recommendations
- 3. services/clinicalNoteService.js Enhanced with German crisis keywords

Files Modified

- 1. services/llmService.js Enhanced system prompt with DBT knowledge, added DBT tools
- 2. server.is Added DBT API endpoints
- 3. public/index.html Added DBT Skills card
- 4. public/app.js Added DBT skill loading functions

Therapeutic Notes Included

For each DBT module, therapeutic guidance is provided for:

- Adolescents: Age-appropriate adaptations (visual cards, shorter exercises, parent work)
- Addiction: Craving management, relapse prevention, saying no
- PTSD: Trigger awareness, careful dosing, grounding emphasis

Worksheets Available

The knowledge base includes references to:

- Weekly Protocol: Mood, skills used, substance use, flashbacks
- Craving Protocol: Trigger, intensity, skills applied, outcome
- Trigger Diary: Situation, trigger, body reaction, skills used
- Parent Worksheet: "Walking the Middle Path" for adolescent DBT

✓ Usage in Chat

Users can now:

- 1. **Ask for DBT skills**: "I need help with anxiety" → AI recommends Opposite Action or 5-4-3-2-1
- 2. Request specific skills: "Show me the TIPP skill" → AI provides detailed instructions
- 3. **Get crisis support**: "I'm thinking of hurting myself" → Immediate crisis protocol + TIPP/STOP skills
- 4. Quick access buttons: Click "Crisis Skills" or "Grounding" on dashboard

The AI proactively offers DBT skills throughout conversation based on emotional state and context.

Next Steps (Optional Enhancements)

- 1. Skill Practice Tracker: Log which skills users try and their effectiveness
- 2. Personalized Skill Recommendations: Based on mood patterns and personality
- 3. **Guided Audio**: Voice-guided versions of skills (breathing, grounding)
- 4. Skills Printable Cards: Generate PDF skill cards for offline use
- 5. **Progress Dashboard**: Track skill usage frequency and emotional outcomes

Summary

MindBot now has professional-grade DBT knowledge integrated at every level:

- ✓ 5 comprehensive DBT modules with 15+ skills
- Al can recommend and teach skills contextually
- Crisis detection in English and German
- Clinical notes track concerning patterns
- Frontend quick-access to most important skills
- API endpoints for programmatic access
- Population-specific adaptations (adolescents, addiction, PTSD)

The system now provides **evidence-based**, **professional therapeutic guidance** while maintaining empathetic, accessible communication.