



Therapy-AI Therapist Transcription and AI Reporting Platform

Prepared for:
Information Technology Institute (ITI)

Team Members

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1- Problem

Therapists and mental health professionals spend a significant amount of time after each session, they must manually document patient interactions, noting critical details such as treatment progress, emotional state, behavioral observations, and therapeutic interventions. This documentation process can be time-consuming and repetitive, often requiring therapists to spend additional hours after client sessions to write and organize their notes.

This not only reduces the time available for direct patient care but also leads to inefficiencies that can ultimately affect the quality of patient treatment. The need to recall specific details from each session, while ensuring that reporting is both accurate and compliant with medical record-keeping standards, can lead to cognitive overload.

Many therapists struggle to maintain consistent notetaking, sometimes omitting important details or failing to capture subtle nuances that may be vital for future sessions or treatment adjustments.

2- Solution

Therapy-AI Platform is designed to significantly streamline the administrative work of therapists and mental health professionals by automating documentation and enhancing productivity through the integration of modern technologies

1. Account Creation and Secure Login

- Therapists will be able to securely create their own accounts on the platform, with options to authenticate via email and password or integrate with third-party authentication providers (e.g., Google).

2. Patient Management Interface

- Therapists can create and manage patient profiles. Each patient profile will store important data such as personal details, treatment history, previous sessions, and notes.

3. Recording and Uploading Session Audio

- Therapists can record sessions directly within the platform using their devices, or upload session recordings in audio formats (e.g., MP3).

4. Automatic Transcription

- **Feature:** Upon completion of a session, the audio file will be automatically processed by the platform, where it will be transcribed into text using an advanced speech-to-text engine

5. Natural Language Processing (NLP) for Structured Summaries and Reports

- The platform will utilize NLP models to analyze the transcribed text and automatically generate structured summaries and reports.

6. Report Review, Edit, and Save

- Therapists will be able to review the automatically generated reports, make edits if necessary, save & download them for future reference.

7. Patient History for Future Reference

- The platform will store patient history, including all session recordings, transcriptions, reports, and any other relevant documentation.

3-Technical Obstacles

- Integration with External Tools (Payment Gateways, EMRs)
- Real-Time Transcription and Processing Latency
- Speech-to-Text Accuracy and Transcription Quality

4-SWOT Analysis

SWOT Analysis	
Strength	Weakness
AI-Powered Transcription and Report Generation	Accuracy of AI Transcriptions
Increased Efficiency for Therapists	Dependence on Internet Connectivity
Secure Data Storage and Compliance	Data Storage Costs
Scalability for Multi-Therapist Clinics	User Learning Curve
opportunities	Threats
Expansion of AI in Healthcare	Competition from Established EHR and Telehealth Platforms.
Partnerships with Mental Health Clinics and Institutions	
Introduction of Subscription Models and Advanced Features	

5- Software

Backend - Django

- **Framework:** Django is used for the backend, providing secure user authentication, API management, and data handling.
- **AWS (Amazon Web Services)**
S3 Storage: AWS S3 is used for storing audio files associated with therapy sessions.
- **Celery (Asynchronous Task Processing)**
Background Task Handling: Celery is used to process time-consuming tasks in the background, such as audio transcription and NLP analysis. Redis is used as the message broker for task management.
- Whisper (AI Model for Audio Transcription)
- LLMs (Large Language Models) for NLP
- **Database:** PostgreSQL is used for storing all patient data, session records, and reports securely.

Frontend – React

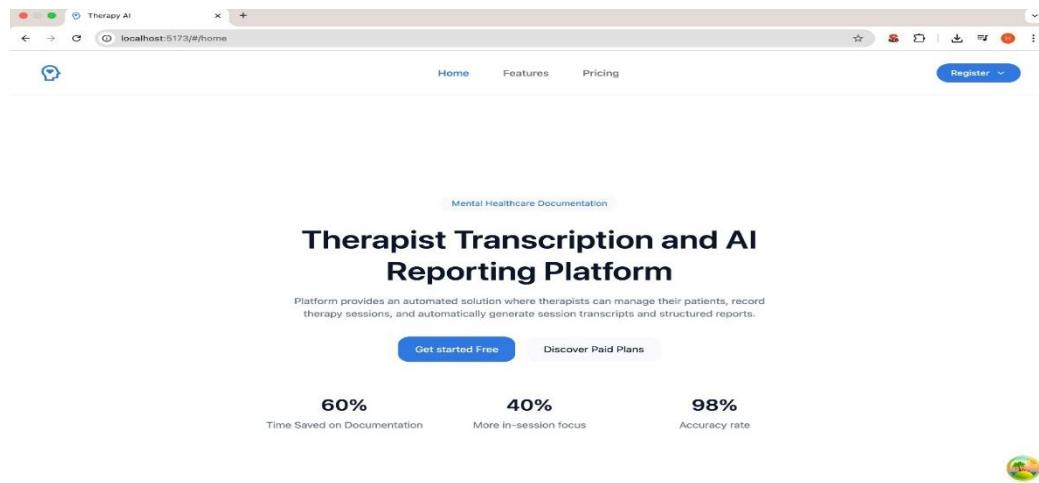
- **Framework:** React is used to build the user interface, providing interactive and responsive experience for therapists.
- **Styling:** Tailwind CSS, Vite, SweetAlert , Toastify, react icons

6- Milestones & Reporting

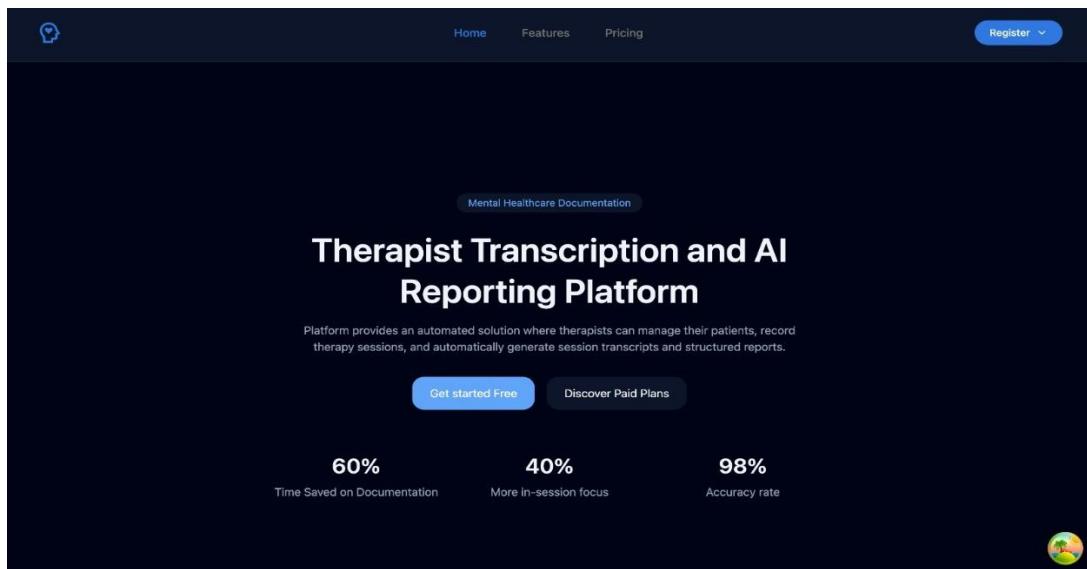
Milestones	Tasks
Analysis	<ul style="list-style-type: none"> • Requirements Analysis • Design system architecture and database schema • Create GitHub repositories • Tasks Assignment
Development	<p>Backend</p> <ul style="list-style-type: none"> • Set up Django backend and database connection with PostgreSQL • Install necessary packages (Django, REST framework, etc.) • Implement user authentication and authorization • Create API routes and connect to frontend • Integrate speech-to-text service (Whisper) <p>Frontend</p> <ul style="list-style-type: none"> • Set up React frontend with Tailwind CSS • Implement UI components for managing patients and sessions • Integrate frontend with backend APIs • Implement session recording and upload features • Create report generation and display system
Testing	<ul style="list-style-type: none"> • Perform functional testing of backend APIs • Test session transcription accuracy and report generation • Conduct user testing for frontend UI/UX • Perform end-to-end testing for complete workflow (from login to report generation)
Deployment	<ul style="list-style-type: none"> • Set up cloud hosting (AWS, Google Cloud)

7- How It Works

Landing Page



Landing Page/ Dark Themed



Home Page

Introduces the Therapy-AI platform and its core value: automating therapy session transcription and reporting.
Highlights key benefits such as time savings, focus during sessions, and high accuracy.

Features Page

The screenshot shows the 'Features Page' of the Therapy-AI website. At the top, there's a navigation bar with icons for user profile, Home, Features (which is highlighted in blue), Pricing, and a Register button. Below the navigation is a section titled 'Powerful Features, Built for Professionals' with a sub-subtitle: 'Our platform helps therapists save time, reduce manual work, and focus on what matters most — patient care.' There are four main feature boxes: 'AI Report Summary' (with a document icon), 'Session Recording' (with a microphone icon), 'Download & Edit Summaries' (with a download icon), and 'AI Transcription' (with a headphones icon). Each box contains a brief description and a bulleted list of benefits. A small circular profile picture is located on the right side of the page.

AI Report Summary
Get a complete AI-generated overview of every session to support better clinical decisions.

- High Risk Alerts
- Executive Summary
- Key Points
- Suggested Treatment Plan

Session Recording
Record every session securely and replay it anytime to review tone, emotions, and context.

- High-quality audio recording
- Secure storage
- Replay anytime

Download & Edit Summaries
Download, customize, and store your session reports with full

AI Transcription
Automatically converts speech into accurate, searchable text.

Features Page/ Dark Themed

The screenshot shows the same 'Features Page' as above, but with a dark blue background. The layout and content are identical to the light version, including the navigation bar, main title, subtitle, and four feature boxes: 'AI Report Summary', 'Session Recording', 'Download & Edit Summaries', and 'AI Transcription'. The small circular profile picture is also present on the right.

AI Report Summary
Get a complete AI-generated overview of every session to support better clinical decisions.

- High Risk Alerts
- Executive Summary
- Key Points
- Suggested Treatment Plan

Session Recording
Record every session securely and replay it anytime to review tone, emotions, and context.

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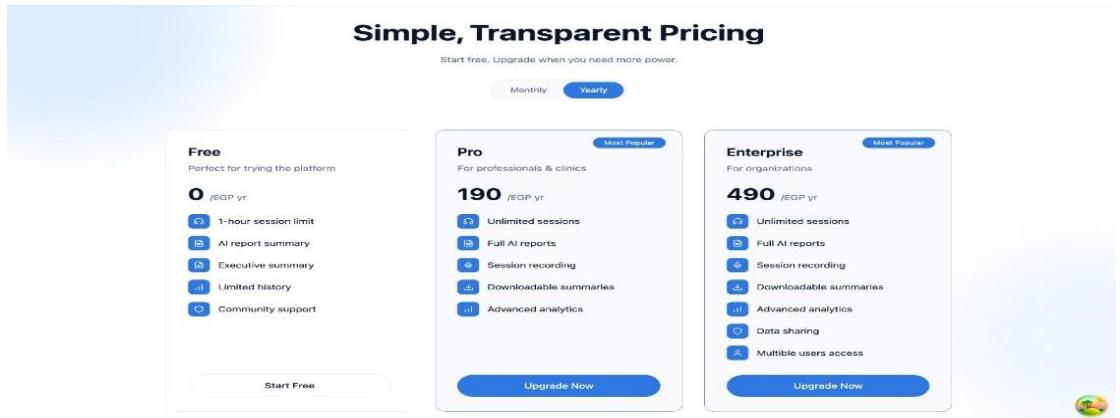
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Download, customize, and store your session reports with full

AI Transcription
Automatically converts speech into accurate, searchable text.

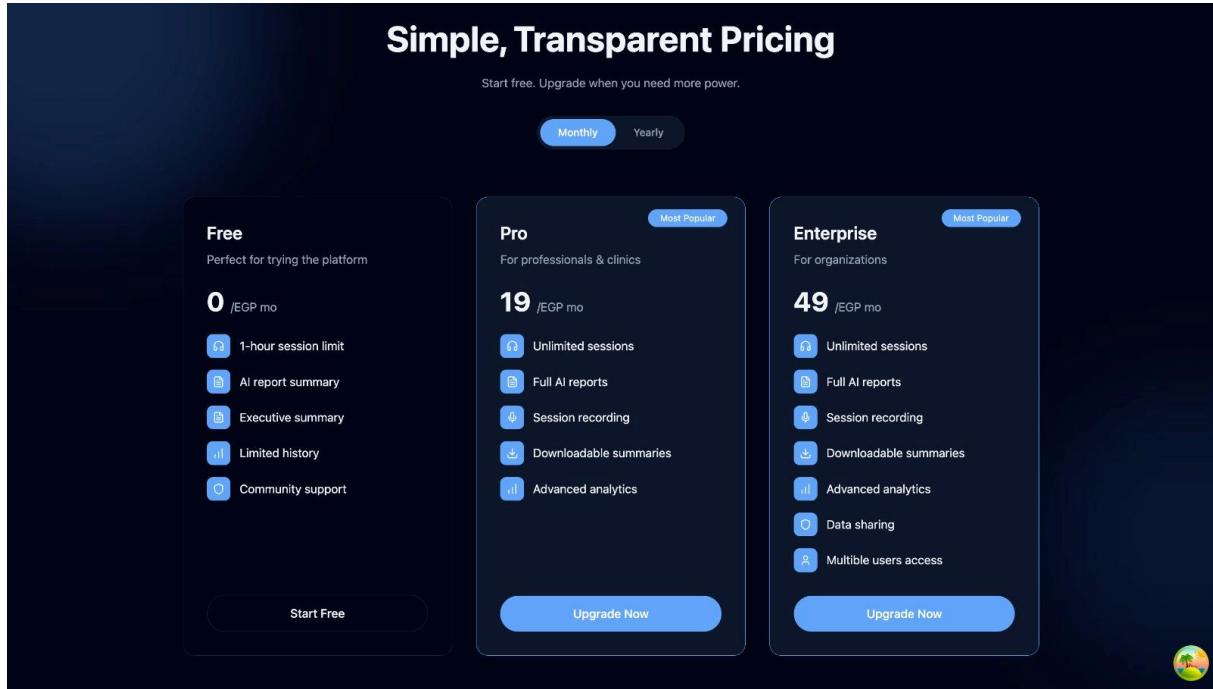
Explains the main features of the platform, including session recording, AI transcription, and report generation.

Shows how the system helps therapists manage patients and documentation efficiently.

Pricing Page



Pricing Page / Dark Themed



Displays available plans and what each plan includes.
Allows therapists to choose a suitable subscription based on their needs whether monthly or yearly.

SignUp Page

Create Account

Fill in your details to get started

Full Name

Email Address

Password

Confirm Password

Create Account

Remember me

Or continue with

G Continue with Google

Already have an account? [Sign in](#)

Allows therapists to create a secure account by entering basic information or signing up with Google.
Provides quick access to the platform and unlocks all core features after registration.

SignIn Page

Sign In

Enter your credentials

Email Address

Password

Sign In

Remember me

Forgot password?

Or continue with

G Continue with Google

Don't have an account? [Sign up](#)

Allows registered therapists to securely log in using their email and password or Google account.
Provides access to the dashboard, patient management, and session documentation tools.

Dashboard

Welcome, Hager

Patients: 1

Sessions this week: 1

Reports Ready (this week): 1

+ Add Patient New Session

Recent Sessions

#	Patient	Status	Created	Open
1	hager sameh	Completed	Jan 13, 2026	👁

View all

Dashboard/Dark Themed

Welcome, Hager

Patients: 1

Sessions this week: 1

Reports Ready (this week): 0

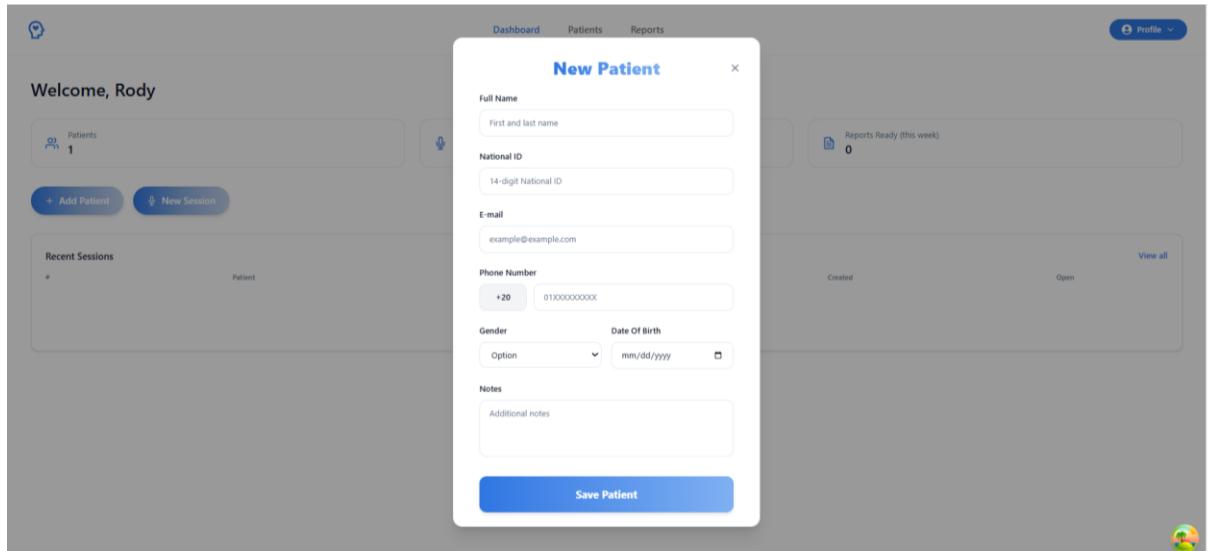
+ Add Patient New Session

Recent Sessions

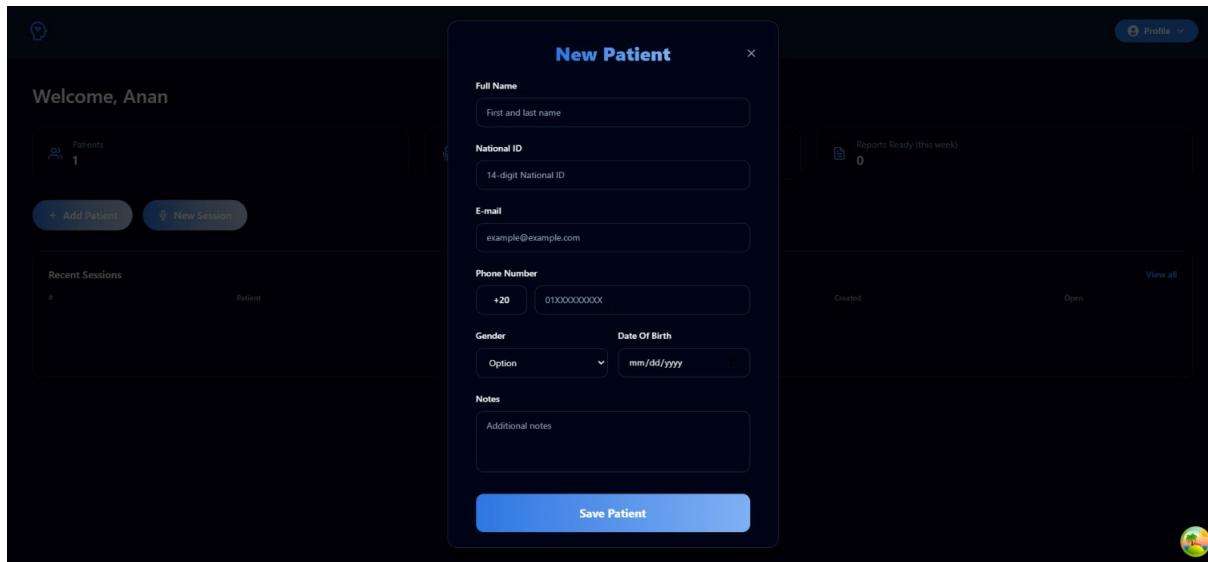
#	Patient	Status	Created	Open
1	hager sameh	Empty	Jan 13, 2026	👁

Provides therapists with an overview of their activity, including patients, sessions, and generated reports.
Allows quick actions such as adding new patients, starting sessions, and accessing recent session reports.

Dashboard x Add Patient



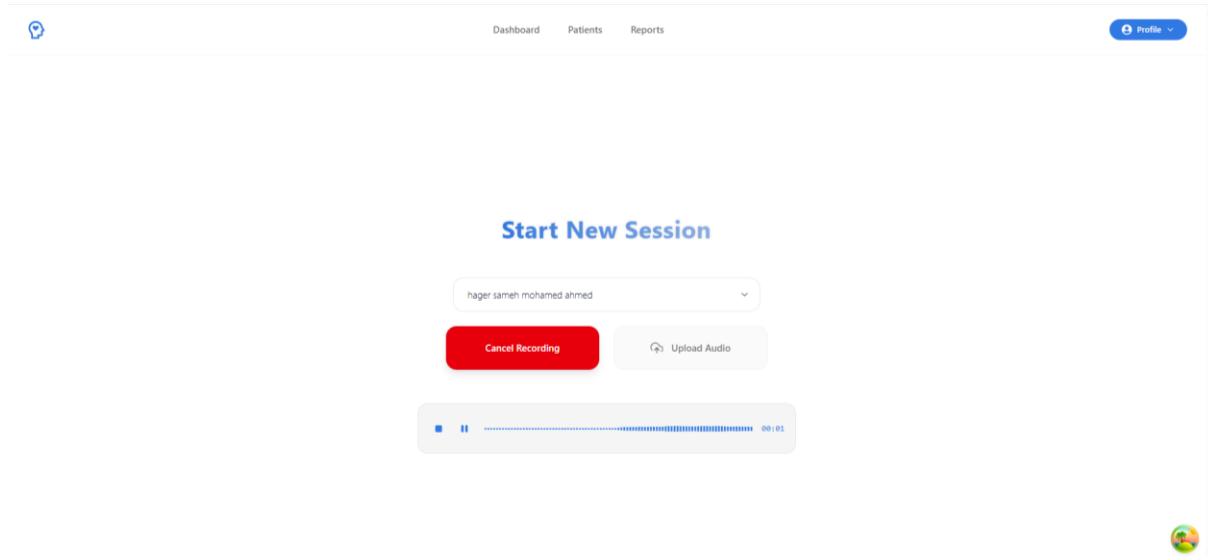
Dashboard x Add Patient/ Dark Themed



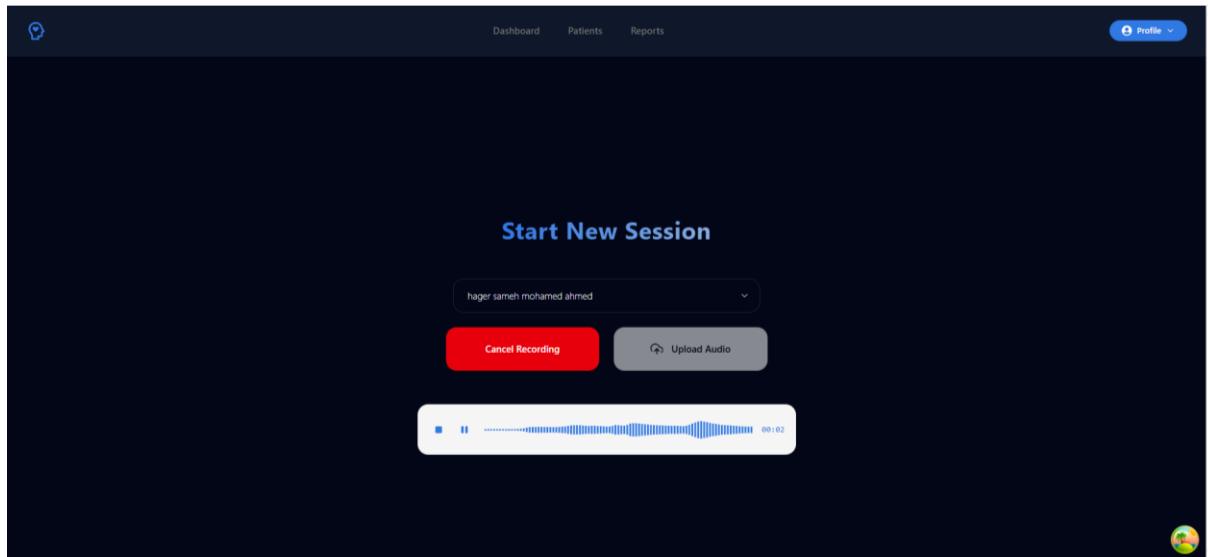
Dashboard includes a add patient form that allows therapists to add a new patient by entering personal and contact details.

Stores patient information securely to enable session tracking and history management.

Session Recording Page



Session Recording Page/Dark Themed



Allows therapists to start a new therapy session by selecting a patient and recording or uploading session audio.

Prepares the session for automatic transcription and AI-generated reporting.

Patients List Page

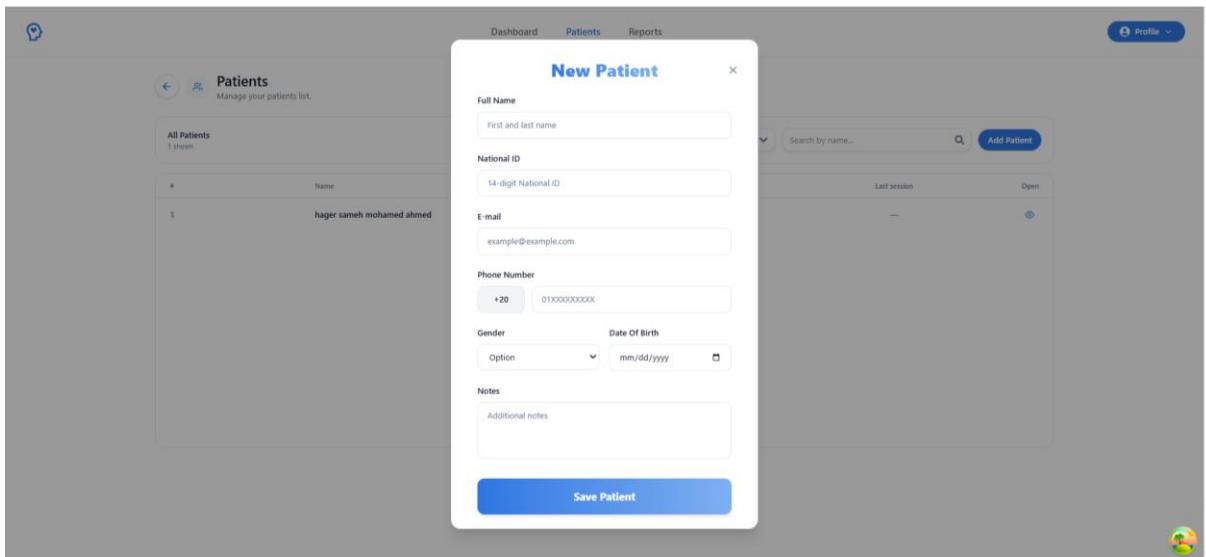
The screenshot shows the 'Patients' list page in light mode. At the top, there are navigation links: Dashboard, Patients (which is highlighted in blue), and Reports. On the far right is a 'Profile' dropdown menu. Below the header, there's a breadcrumb trail with icons for back, search, and filter, followed by the word 'Patients' and the sub-instruction 'Manage your patients list.' A sub-header 'All Patients' indicates '1 shown'. To the right of this are dropdown filters for 'All genders' (set to 'All genders') and a search bar with placeholder 'Search by name...'. A blue 'Add Patient' button is located at the top right of the table area. The main content is a table with columns: #, Name, Gender, Age, Last session, and Open. One row is visible, showing a patient named 'hager sameh' (Female, 22, Last session: —, Open: ⓘ). The table has a light gray background with white text.

Patients List Page/Dark Themed

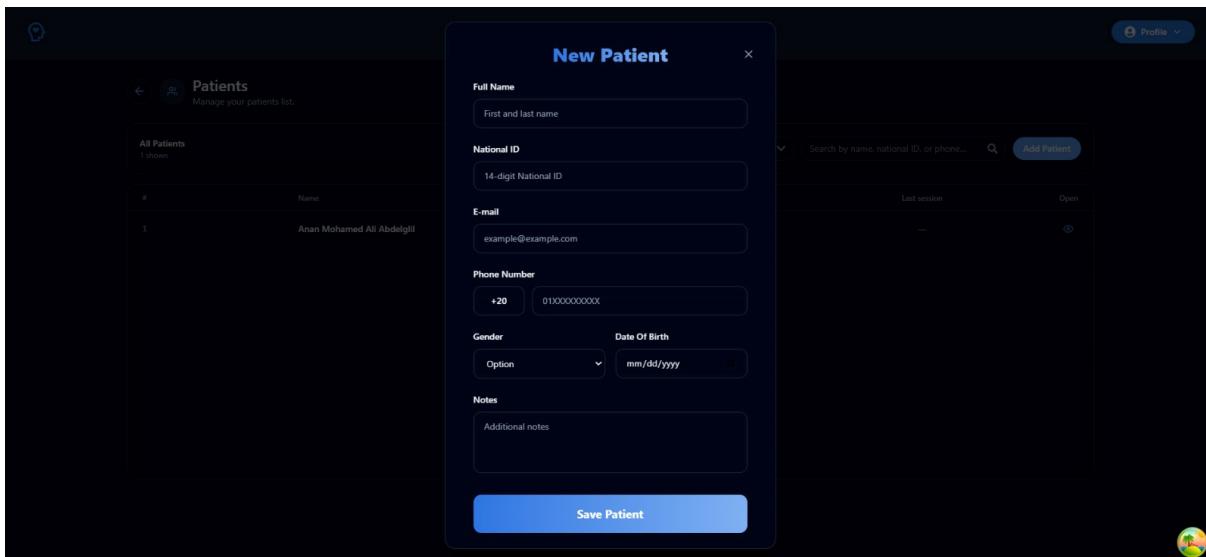
The screenshot shows the 'Patients' list page in dark mode. The overall theme is dark with light-colored text and UI elements. The layout is identical to the light mode version, with the same navigation, breadcrumb trail, and table structure. The table row for 'hager sameh' is also present, showing the same details: Name (hager sameh), Gender (Female), Age (24), Last session (—), and Open (ⓘ). The dark mode uses a black background with white and light gray text for readability.

Displays a list of all patients with basic details such as name, gender, age, and last session. Allows therapists to search, filter, add new patients, and access individual patient records.

Patients List Page x Add Patient

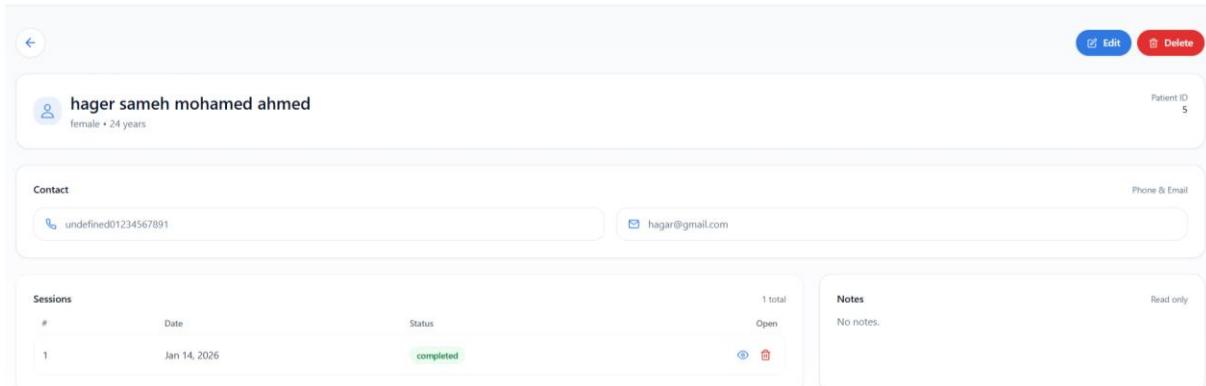


Patients List Page x Add Patient/Dark Themed



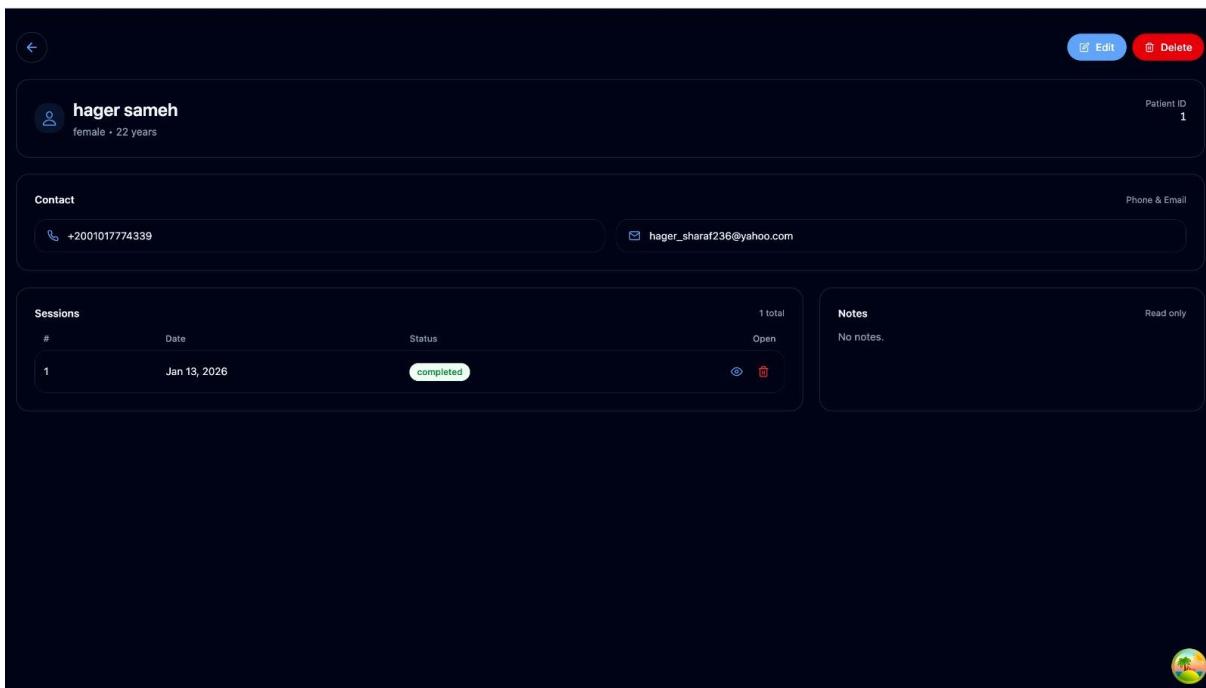
**Allows therapists to add a new patient directly from the Patients list without leaving the page.
Ensures quick data entry while keeping patient management organized and efficient.**

Patient Details Page



A screenshot of the Patient Details Page in light mode. At the top right are 'Edit' and 'Delete' buttons. Below is a patient summary: 'hager sameh mohamed ahmed' (female, 24 years), 'Patient ID 5'. Under 'Contact', there's a phone number and an email address. A 'Sessions' table shows one completed session on Jan 14, 2026. To the right, a 'Notes' section says 'No notes.' and is labeled 'Read only'. A small green circular icon with a tree and sun is in the bottom right corner.

Patient Details Page/Dark Themed



A screenshot of the Patient Details Page in dark mode. The layout is identical to the light theme version, showing the patient summary, contact information, session history, and notes. The 'Edit' and 'Delete' buttons are at the top right. A small green circular icon with a tree and sun is in the bottom right corner.

Displays complete patient information, including personal details, contact data, and session history. Allows therapists to view sessions, edit patient data, or delete the patient record if needed.

Reports Page

The screenshot shows the 'Reports' page in light mode. At the top, there's a navigation bar with 'Dashboard', 'Patients', and 'Reports'. On the right is a 'Profile' dropdown. Below the navigation is a header for 'Reports' with a back arrow and a search icon. A sub-header 'All Reports' shows '1 shown'. There's a filter dropdown for 'All statuses' and a search bar 'Search by patient name...'. A table lists one report: 'sohila khaled helmy abed' from 'Jan 14, 2026' with status 'ready' and an 'Open' button.

Reports Page/Dark Themed

The screenshot shows the 'Reports' page in dark mode. The interface has a dark background with white text and light-colored buttons. The layout is identical to the light mode version, showing the 'Reports' header, 'All Reports' section, filter, search bar, and a single report entry for 'sohila khaled helmy abed'.

Displays all generated session reports with their status and creation date.
Allows therapists to search, filter, and open detailed AI-generated reports for review.

Session Details Page

The screenshot displays the Therapy-AI Session Details Page in light mode. At the top, it shows the therapist's name, session ID, date, and status (Completed). Below this, there are two main sections: "AUDIO RECORDING" and "Transcription".

AUDIO RECORDING: This section includes a playback control bar with a play button, a progress bar showing 0s / 0s, and a speed selector set to 1x. There is also a "Replace Audio File" button.

Transcription: This section shows the AI-generated transcription of the session. The transcription text is as follows:

أنا خلاص اتشر وعش عايز أعيش في الدنيا دي تاني مالبس وعندыш اتنى حوف إن أنا أموت حتى لو دا معناه إن أنا ملا الموت وأنا
أشغل اللهم عذليه يا رب كما ما ذكرتني في حاجة زي كده الموضوع كله بـ ٢٠١٨ كاتب أصعب سنة وبارع من إن
هي كانت أصعب سنة إلا وهي كانت السنة الحسمة أو اللي فرقت في حياتي كثير جدًا من وانا صغيره كنت دائمًا الناس
يأخذوا إيه في كل حاجة اسمه أنا مخوتوين، أموره إنما مخوتوين، أموره إنما مخوتوين، أموره إنما مخوتوين،
إنها فرقه زي كده أصعب اللي جات تنسالي بفترة ملادي مشكله كل أموره ملادي مثل كل الناس دي
عارة إيه إيه الأسئلة ياعنها سبب في عايزه اسمع عن ذاتي مكاكوا بسوا سوا سوا عايزه اسمع عن ذاتي مكاكوا بسوا
طلاقة إيجابية وبيتكلكموا عيانًا كاتب شكر ربنا لازم إيه حس إنه كل واحد في الدنيا ياخوا بسوا طلاقه إيجابية مللا
يساعد الشفريه في حاجة يعنى في ٢٠١٨ كاتب هي أول سنة حاجهه في مصر، حاجةه ياخوا إيشيل طلاقه وعنهما ما كتتشن أسد
وأحدة، ما كتتشن الشخصي تعايش، ما كتتشن شخص ما كتتشن شخص ما كتتشن عايزه أنا كاتب سبب اللات أو قرئ أو حاجة، الحاجات دي سبب
ذكره إن أنا كاتب في تعايش مع إن أنا بحب المرسى، بحب العاجات دي كلها بحب العاجات يعني سبب شخص همه ما كتتشن

Session Details Page/Dark Themed

The screenshot displays the Therapy-AI Session Details Page in dark mode. The overall aesthetic is darker, with lighter text colors against a black background. The layout and content are identical to the light mode version, including the therapist's name, session ID, date, status, and the "AUDIO RECORDING" and "Transcription" sections.

AUDIO RECORDING: This section includes a playback control bar with a play button, a progress bar showing 0s / 0s, and a speed selector set to 1x. There is also a "Replace Audio File" button.

Transcription: This section shows the AI-generated transcription of the session, which is identical to the one in the light mode version. The transcription text is as follows:

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The Upper Part of the page displays the session audio recording with playback controls and the full AI-generated transcription.

Allows therapists to review the session content before moving to analysis and report generation.

Session Details Page Cont.

This screenshot shows the Therapy-AI Session Details Page in light mode. The page is organized into several sections:

- Clinical Summary:** A summary of the patient's history, including their age (28 years old), gender (Female), and symptoms (Feeling overwhelmed by work and family responsibilities, difficulty concentrating, and low mood). It also notes a recent hospitalization for depression.
- EXECUTIVE SUMMARY:** A brief summary of the patient's mental health status and current concerns.
- KEY POINTS:** A list of key findings from the AI analysis, such as "Patient reports feeling overwhelmed by work and family responsibilities, difficulty concentrating, and low mood" and "Recent hospitalization for depression".
- RISK FLAGS:** A section highlighting a "suicide (HIGH)" risk flag, indicating a high level of concern for suicidal thoughts or behaviors.
- SUGGESTED TREATMENT PLAN:** A list of recommended treatments, including CBT, medication management, and psychotherapy.
- SESSION NOTES:** A placeholder for session notes, currently empty.



Session Details Page Cont./Dark Themed

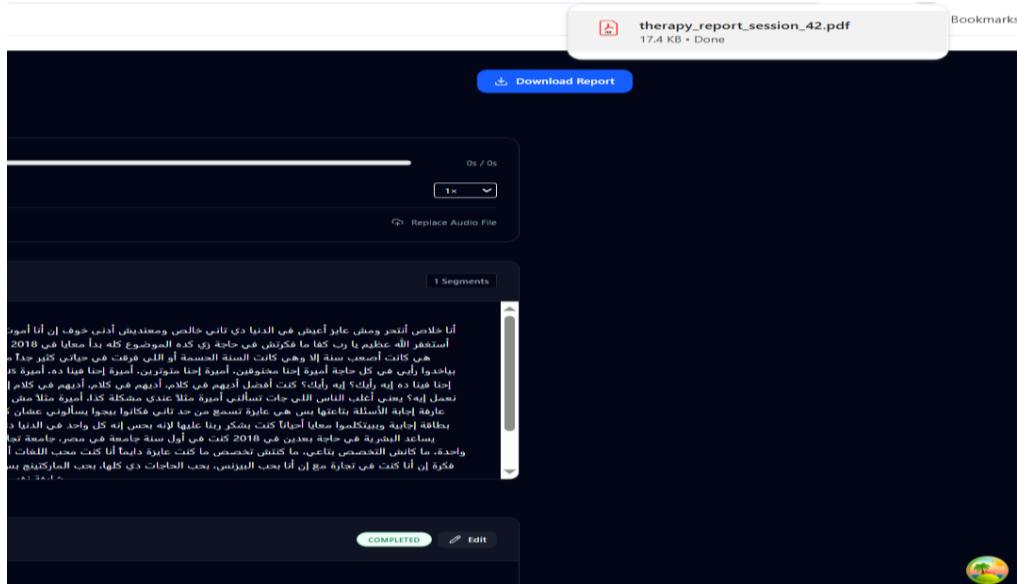
This screenshot shows the same Session Details Page as above, but in dark mode. The overall appearance is darker, with the text and buttons being white or light gray against a dark background. The content and structure remain identical to the light mode version.



The lower part of the page displays the AI-generated clinical summary, key points, risk flags, and suggested treatment plan.

Allows therapists to review, edit, and validate the analysis before saving or downloading the final report.

Reports Download



The Downloaded Report

Therapy Session Report

Patient: sohila khaled helmy abed
Date: 14 Jan 2026 22:04

Executive Summary

المربيقة تعبر عن أفكار انتحارية وشعور بعدم الرغبة في الحياة منذ عام 2018، وهي فترة وصفها كأصعب سنتين في حياتها. كانت تتبعن بطاقة الحبانية وتأثر جيداً على من حولها، لكنها تشعر بعدم الانتهاء لبيتها الدراسية والعملية الحالية، مما يعيق إلئي تورتها وفاللهما.

Key Points

- الأفكار الانتحارية بدأت في عام 2018، والتي وصفتها بأنها سنته صعبة للغاية.
- كانت المربيقة تلعب دور الداعم المعنوي للأخرين بعمل طاقتها الإيجابية.
- الشعور بعدم الانتهاء الجامعي والشخصي الدراسي الذي لا تتحمّل.
- الإحساس بالغير والضغط النفسي المستمر منذ دخول الجامعة.
- الشعور بحب مجالات معينة مثل اللغات والبرمجة لكنها موجودة في تخصصها.
- لا شعور بالارتزاح بحالها.
- شعور عام بالإيجابية من الحياة المعاشرة.
- التناقض بين حبها للمساعدة وطاقتها الإيجابية وبين شعورها بالآيس.

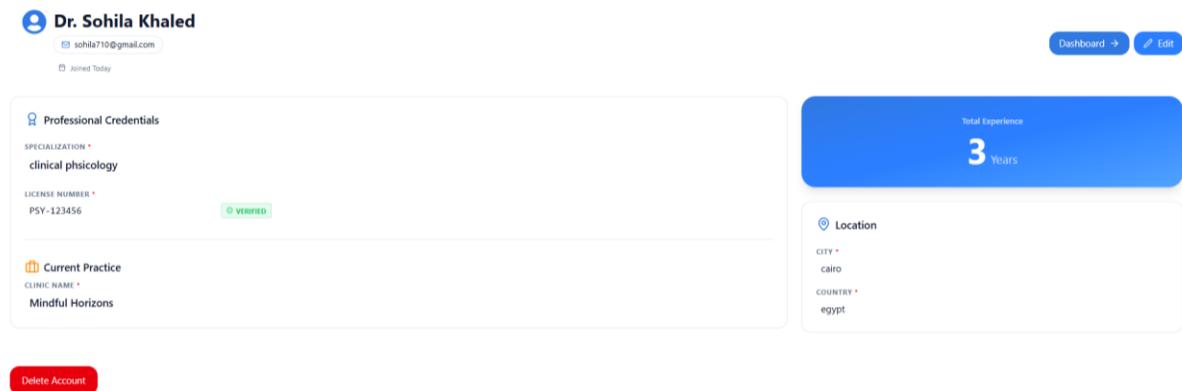
Risk Flags

- suicide (high):

المربيقة تعبر صراحة عن رغبتها في الانتحار وقولها للموت دون حرف.

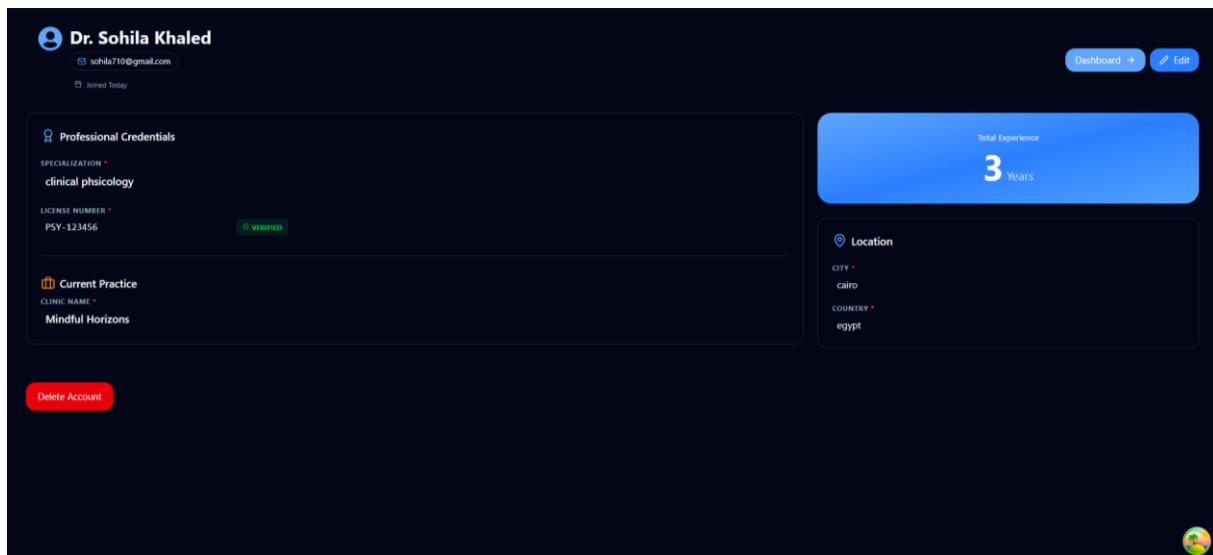
Allows therapists to download the finalized AI-generated session report directly from the platform.
 Provides a structured, professional report format suitable for documentation or record keeping.

Therapist Profile Page



A screenshot of the Therapy-Ai Therapist Profile Page. At the top left is the user's name, Dr. Sohila Khaled, with an email link (sohila710@gmail.com) and a 'Joined Today' badge. Top right are 'Dashboard' and 'Edit' buttons. The main content area has two sections: 'Professional Credentials' (specialization: clinical physiology, license number: PSY-123456, verified) and 'Current Practice' (clinic name: Mindful Horizons). To the right is a large blue box showing 'Total Experience: 3 Years'. Below these are 'Location' details (city: cairo, country: egypt). A small green profile picture is at the bottom right. A red 'Delete Account' button is at the bottom left.

Therapist Profile Page/Dark Themed



A screenshot of the same Therapist Profile Page in dark mode. The background is black, and the text and buttons are white or light-colored. The layout and information (credentials, practice, experience, location) are identical to the light theme version.

Displays the therapist's personal and professional information, including specialization, license details, and experience.
Allows therapists to edit, delete their profile details or manage their account settings.



<https://github.com/ananmuhammed/therapy-ai->

<https://therapy-ai-platform.vercel.app>

Therapy-Ai



<https://github.com/ananmuhammed/therapy-ai->

