



FINAL YEAR PROJECT REPORT

THERAPEASE: COMPREHENSIVE CARE FOR PSYCHOTHERAPY

**In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)**

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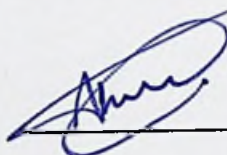
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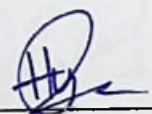
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THERAPEASE: COMPREHENSIVE CARE FOR PSYCHOTHERAPY

ABSTRACT

The delivery of mental health services has experienced a tremendous demand for advanced digital therapy platforms which provide efficiency alongside security together with ease of use. TheraEase serves as a web-based platform which implements a standardized system that uses automated processes for therapist-client communication alongside administrative control features and artificial intelligence support. The system enables administrator-approved credential verification to activate new therapists securely after their approval. The system allows therapists to schedule sessions, monitor income flow, request withdrawal payments subject to approval and view payment documentation and clients can browse therapists, schedule appointments and request reimbursement that requires administrative approval. The main innovation within TherapEase involves its automated capabilities powered by AI technology. The screening process for clients includes an analysis done with the combination of Semantic search and LLM reasoning which recommends a specific psychotherapy scales based on client responses. AI proceeds client screening by producing specialized client's profile. Each therapy session generates an automated report that first transcribes audio files while performing speaker diarization, then sends the information to Gemini for analysis before creating a formatted document which is permanently removed from storage for privacy purposes. The platform promotes accessibility through form filling enabled by Web Speech API which allows clients to use speech-to-text functions. Among their core responsibilities Admins control all operational aspects from therapist/client administration to refund processes and payout procedures as well as generating analytics that encompass revenue data and appointment scheduling and user statistical information.

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