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(57) Abstract :

The invention discloses a virtual reality platform for smart rehabilitation therapy programs, comprising wearable sensors (1), a therapist console (2), a VR headset (3), and a cloud-based analytics engine (4). The system delivers immersive and adaptive therapy through gamified VR environments, real-time biofeedback, and AI-driven personalization. Therapists monitor patient progress via the console (2), supported by cloud-based predictive analytics. This integrated ecosystem enhances patient engagement, accessibility, and recovery efficiency while providing clinicians with objective metrics and automated reporting, thereby advancing rehabilitation therapy outcomes.

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