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(51) International classification	:A61B0005000000, G06F0003010000, G16H0020300000, G16H0020700000, A63F0013212000	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The invention relates to a virtual reality framework (100) for smart therapy and rehabilitation. The system integrates a VR headset (101), motion capture sensors (102), wearable biofeedback units (103), therapist control interface (104), and cloud-based analytics (105). The framework provides immersive therapy experiences, adaptive biofeedback-driven sessions, remote monitoring, and predictive recovery analytics. By combining gamification, professional supervision, and secure data management, the invention accelerates rehabilitation, improves patient motivation, and ensures effective recovery across physical, neurological, and psychological conditions.

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