System Key Features:

1. Brain-Computer Interface (BCI) based stroke rehabilitation system
2. Configured for rehabilitation in chronic and subacute stroke
3. Motor imagery with Virtual Reality (VR) feedback mechanism
4. Innovative algorithm that is clinically-tested to detect patients' motor intent
5. Portable and lightweight system
6. Suitable for deployment in rehabilitation clinic, bedside or home

VR Game Module
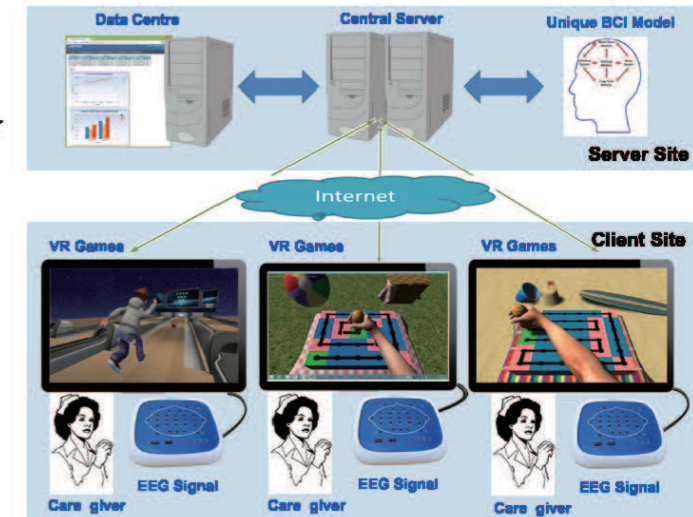
Server Site Software:

1. Innovative Patient-specific Motor Image Detection model
2. Unique proprietary server algorithm
3. Complete data record of the treatment processes
4. Remote clinician access for evaluation on patient's motor recovery efficacy
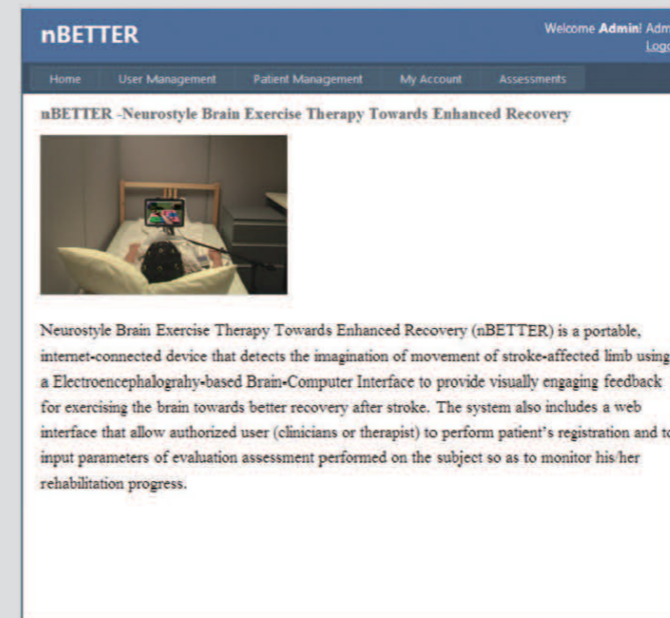
Client Site Application:

1. Coupled with EEG hardware and impedance test to acquire high quality neuro-signals
2. Calibration sessions to guide patients adapt to Virtual Reality environment
3. Supervising sessions to gauge the motor imaging capabilities of patients
4. Rehabilitation therapy game models adapted to patient's progress

System Structure

nBETTER

Neurostyle Brain Exercise Therapy Towards Enhanced Recovery **(nBETTER)** is a portable, internet-connected device that detects the imagination of movement of stroke-affected limb using a EEG-based Brain-Computer Interface to provide visually engaging feedback for exercising the brain towards better recovery after stroke.

It also allows clinicians to monitor patients rehabilitation progress.

Server Interface

Progress Assessment