



VRWELL: A VR Companion for Senior Citizens



Using VR to Enhance the Lives of Senior Citizens

Introduction

- VRWELL is designed to improve physical activities, social interactions, and cognitive abilities of senior citizens.
- The major features are
- VR experiences for exercise.
 - Social interaction simulations.
 - Cognitive games and challenges.
 - EMG sensors for health monitoring.



With VRWELL, seniors can enjoy a more active and engaging life.

EMG Sensor Function

How does EMG sensor work in VRWELL?

EMG Sensor Role	Biometric Data Collected
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Muscle Activity

Data on users' muscle activity during VR experiences

Stress Levels

Indication of users' stress levels

Health Suggestion

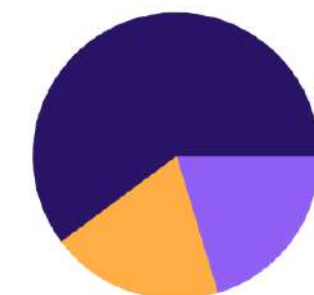
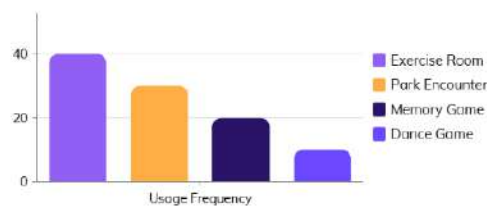
Based on biometric data, VRWELL provides health suggestions

Features

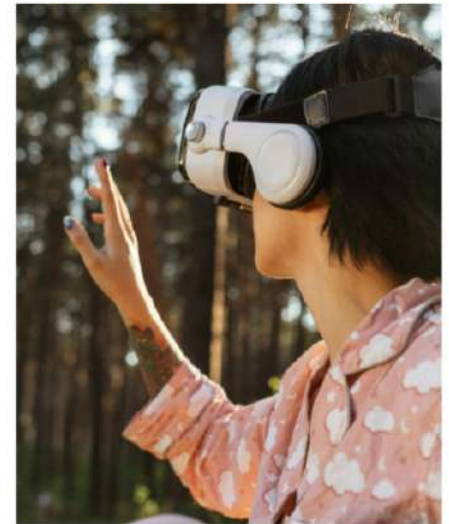
VRWELL provides various VR experiences aimed at enhancing different aspects of a senior's life.

Areas of Enhancement	VR Experiences	Duration (mins)
Physical Activity	Exercise Room	30
	Park Encounter	25
	Memory Game	20

Physical Activity	Dance Game	35
	Puzzle Challenge	30
	Dialogue With Character	15



Physical 20% Social 20% Cognitive 60%



Future Features



Integration with other health monitoring devices.



Adding more VR experiences based on user feedback.



Improvement of EMG sensor technology.

Acknowledgments

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