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Rationale

Usage of digital technologies within the care services of disabled people can help them to restore or improve their functions in their daily life activities. In that case, it can be added that the application of appropriate assistive technology delivers its effective support to disabled people to compensate for their disabilities effectively and successfully. For this, the implementation of specialised technology is required to increase the abilities of disabled people by replacing their disabilities with abilities (Alper and Goggin, 2017). This process shows that those technologies promote independence and decrease the need for support to the people who have disabilities. Through the promotion of those developed technologies delivery opportunities in front of the disabled people to take care of themselves and their families and also help them to continue their daily life operations with ease.

Objectives

There are some objectives within this research paper and that help the researcher to find out relevant results with respect to the topic of its current research. Objectives of this research paper are listed below:

- To identify the importance of developed technology in the care services of people with disabilities
- To evaluate the effectiveness of assistive technology to deliver support to disabled a person by Chaseley Trust
- To analyse the impact of rehabilitative technologies in the developed care of the disabled people
- To recommend the best technological devices for offering active support to disabled people to run their daily life operations successfully

Methodology

Within this current research, the researcher is using the positivism research philosophy as this philosophy will help in the critical as well as logical investigation of the research topic (Kanu, 2019). Therefore, a deductive research approach is undertaken by the researcher. It helps to deduct information from the existing theories, concepts and models regarding the importance of

digital technology to deliver proper care to disabled people through the care services of Chaseley Trust. Collection of the data is performed with the involvement of secondary data analysis (Zangirolami-Raimundo, Echeimberg and Leone, 2018). Engagement of secondary data analysis helps the researcher to acquire and develop an understanding of the importance of assistive technologies for the care services of people with disabilities. Analysis of the collected data is presented with the application of thematic analysis and it helps the reader to have a clear understanding of the research topic.

Literature Review Methodology

Assistive Technology

Assistive technology (AT) is noted as the device or piece of equipment which helps bypass or compensate for an individual in case of having learning deficits. According to the research, it is observed that AT serves effective support to those people who have learning disabilities. This developed technological device does not reduce the learning disability of its users but it serves active support to reach the potential to replace the disability into abilities (Fortuna *et al.*, 2020). Through the application of this device, one can easily capitalise on their strength and bypass the areas in which they are facing difficulties. As an example, it can be added that a student who has good listening skills can be benefited from the usage of this device by listening to audio books. In general context, AT is defined as the remedial reading software which has its user to develop certain deficit skills within themselves.

Helmet for the Blind

Met looks like helmets are designed by Chinese organisations to help people who have visual disabilities. That helmet is using sensors and cameras to map the environs and after that, it sends information to the cloud server which is preceded by AI technology. Information that is passed on within the cloud servers can be communicated through speech (Ramirez-Montoya *et al.*, 2021). This device helps those people who have visual impairments to navigate streets and also helps blind people to select their right pathway for walking or leading multiple works. Through the usage of this technological device, blind people can recognise objects and negotiate traffic lights at the time of crossing roads.

Hearing Aid

Researchers are working together for the implementation of cognitive hearing aid for offering easy access to those people who have disabilities in hearing or recognising any words. This cognitive hearing aid monitors the activity of its users' brain to help its users in case of identifying specific voices in which the listener is stressing active focus (Fortuna *et al.*, 2020). After that this aid magnifies the audio at the time of quieting sounding noise and also allows its users to have better hearing.

Bionic Exoskeleton

Bionic exoskeleton is recognised as one of the developed technological devices and this device is described as a legged segway as it helps disabled people to walk easily. This device is designed for those people who are suffering in case of standing or walking due to their disabilities. This process defined that with the usage of this device paralysed people can stand or walk. Therefore, a wearable robotic was approved by the US Food and Drug Administration to offer physical rehabilitation to physically disabled people. That device is used by disabled people like the crutches or walkers to walk easily. Within this context, it is examined that future exoskeleton might replace the usage of wheelchairs by offering greater mobility as well as by presenting health benefits to the people who have physical disabilities in standing or walking.

Giving voice to the Speech-Impaired

Scientists in different countries around the world such as the Us, Uk, and China are putting their full efforts to bring prototypes of gloves that can help to translate the hand movements into speech. Within this context, it can be mentioned that this glove also can serve easy access to its users to convert sign languages into speech. This process defined that the use of this glove at the time of talking can allow its users to engage in real-time verbal communication with people in the community. It also helps those people who are not proficient in sign languages to clearly understand the words of others at the time of establishing communication.

Benefits of Technology for Disabled People

Multiple technologies serve easy access to those people who have disabilities for managing their daily life operations easily and successfully. In that case, it can be mentioned that there is the presence of software that helps people who suffer from dyslexia to read texts from the screen. Thus, technology can offer autonomy to disabled people in case of leading their daily life as only technology is more accessible than the real-world alternatives. On the other hand, AT tools can deliver scope in front of a person to plan, organise and track their scheduled tasks (Cranmer, 2020). Therefore, contact information and miscellaneous notes are also accessed with the application of AT. The primary aim of the AT tools is to allow its users to store, manage and retrieve required information with the implementation of hand-held devices and special software.

Secondary Data Analysis

Theme 1: Technology Empowers person With Disabilities

ICT (Information and Communication Technology) is identified as one of the important aspects of the strategies that are applied to offer easy access to these students who are suffering from disabilities. Some of the common approaches of ICT which helps disabled students are as followed:

Distance e-Learning

This learning method is accessible to those students who have disabilities as this course allows students to continue their studies by staying at home. Therefore, through the involvement of this learning module, disabled students can share documents, lessons and also can exchange ideas with others to make presentations. In that case, usage of computers is noted as the common component for offering developed learning to students about the distance e-Learning process. With this regard, Chaseley Trust also tries to offer this learning process to the disabled students for the management of their easy learning paths to manage betterment in the future.

Reading Digital and Audio Libraries

This digital audio library serves effective services to those students with intellectual as well as hearing and reading disabilities. Therefore, through the use process of this library students who have impaired sight also can follow educational courses based on digital and audio libraries. This library delivers scope in front of those disabled students to assess their learning materials, contents, and resources with the application of internet services (Khanlou *et al.*, 2020). Within this service area, students can connect with that library by staying at home and can read or hear their relevant books. Chaseley Trust also tried to add this facility within the service areas to offer easy access to the disabled students for taking developed learning.

Winning Communication

It is the other developed communication method that helps disabled people to communicate with others through the online talking method. Within this communication process, people with speech disabilities can interact with others based on the online discussion forum. Volunteers of Chaseley Trust tried their level best to deliver support to the disabled people for managing their developed communication with others in the society.

Theme 2: Benefits of ICT in the Development of Abilities of People with Disabilities

This modern world believes in the information society for all and this, serious steps are adopted within the information system to build dropped support for the disabled people for easier management of daily life operations. Within the poor and developing countries, there is the requirement of developed structure to deliver active support to the disabled people according to their needs. Implementation of ICT is one of the most significant technological processes which help in the enhancement of the quality of life of people who have disabilities. Multiple benefits that ICT is offering in the development of abilities of disdain people are discussed under:

- ICT delivers a developed path in front of disabled people to have easy access within their curriculum. It also serves as a developed platform in front of those people to promote their skills by taking developed training in multiple areas.
- ICT is recognised as the magic stick, which helps disable eel to go ahead in their life based on capacity building and empowerment (Goggin and Ellis, 2020).

- Application of ICT delivers scope in front of the people with disabilities to transform their social as well as economic life by compensating their physical functional limitations
- It also helps disabled people to remove social barriers by offering independence in their everyday life operations. With the adoption of digital media, those people can develop their quality of life and also can access their knowledge

Theme 3: Benefit of Rehabilitative Technologies to Take Care of Disabled People

Rehabilitative, as well as assistive technology, delivers scope in front of the disabled people to restore different operations to manage improvement with their functions. Usage of this technology helps people to compensate for their disabilities and those beneficial factors of this technology are listed below:

- This technology help disabled people to take care of themselves and the family members
- It helps people with disabilities to continue their works effectively and successfully (Sheehan and Hassiotis, 2017)
- Through the use of this technology, disabled people can get a healthy environment within the school or in other educational institutions
- It delivers scope to the disabled people to manage their active participation in the community life

Conclusion /Recommendations

To conclude it can be said that assistive technology service beneficial factors to the Chaseley Trust to offer to develop care to the people who have disabilities. Delivery of these developed care services helps those people to manage their activities by learning various things within educational institutions and school environments. therefore it also helps them to manage their full participation in community life by enjoying music, sports, travel, and arts. Analysis of the results shows that assistive technologies became one of the more common places for the people who have disabilities as those technologies deliver benefits to those people to overcome their disabilities.

In that case, it can be recommended that the Chaseley Trust must stress its focus on the engagement of developed technologies in the special care of the disabled person. Moreover, the care service providers of these trusts identify the hidden disabilities of their service users. Through the identification of some medical conditions or hidden disabilities, those care providers may also contribute to overcoming those disabilities effectively and successfully.

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