

NURSE'S ACTIVITIES IN THE DEVELOPMENT OF SOFTWARE

The use of technological resources in the health field has intensified in recent decades and has become a routine in institutions. These tools can contribute to the improvement of nurses' work, but it is necessary for this professional to get closer to the software development process, to maximize resource utilization⁽¹⁾.

Software is understood as a series of instructions, made available in the computer programs format or through the internet network, which, when executed or accessed by a user, allows him/her to perform specific functions according to the programming defined in its process of designing⁽²⁾. They can be applied for different purposes, from educational processes to the academic area as well as the practice of health services, as means of disseminating information, collecting and processing data, among others.

In all possible aspects of a software, it is central to design an appropriate way to meet the objectives and to be consistent with the needs identified in professional practice. Therefore, nurses' participation becomes primordial, from the process of defining the initial scope to the availability of the final version developed.

The inclusion of nurses in software development projects is still a challenge, because although they incorporate the new resources into their practice, many still do not recognize their ability to contribute in the technology creation stage. This professional is not intended to take the space of the developers, but to work together with these companies or technical teams, in order to direct the creation to ensure that the planned resources are contemplated and, above all, that the software can be updated and improved by the researchers themselves.

The nurse must participate in all stages of software development, from the outline of the scope and functions to be performed; choice of instruments to be included, prepared or computerized; storage structure and database generation; monitoring of the technical stage of creation to the execution of functional tests and definition of evaluation strategies, which will ensure the suitability of the new technology.

Thus, this professional inserts him/herself in the structuring of the frontend and the backend aspects to the final users, which together guarantee the best functioning and compliance to the software.

Several possibilities exist for software that can be developed by nurses. Among these are those directed to the systematization of nursing care; to the management of public and private health services; to strategies of health education and interaction with users or to the application in universities, as tools to expand the teaching-learning process.

Therefore, it is encouraged that content aimed at the development of technologies, even during nursing graduation, is approached in order for students to recognize the importance of applying them, but also to contribute to the creation of new software. Technological resources integrate nursing practice and contribute to the improvement of the quality of services provided, and it is essential to stimulate its production in a shared interface between developers and nurses.

Paloma de Souza Cavalcante Pissinati

Nurse. Doctorate student in the postgraduate program in nursing at the State University of Maringá (UEM). Nurse of the Municipal Secretary of Health of Rolândia, Rolândia, Paraná, Brazil E-mail: paloma_cavalcante_souza@hotmail.com

Maria do Carmo Fernandez Lourenço Haddad

Nurse. Doctor in Nursing. Professor of the nursing department and graduate program in nursing at the State University of Londrina (UEL). Londrina, Paraná, Brazil. E-mail: carmohaddad@gmail.com

REFERENCES

1. Hussey PA, Kennedy MA. Instantiating informatics in nursing practice for integrated patient centred holistic models of care: a discussion paper. JAN [on-line]. 2016 fev. [citado em 31 jul 2018];72(5):1030-41. doi: <https://doi.org/10.1111/jan.12927>.
2. Pressman RS. Engenharia de software: uma abordagem profissional. 7 ed. Porto Alegre: AMGH, 2011.