The urgency and emergency sectors in hospitals are characterized by working at a fast pace, sometimes with overcrowding and task overload for health professionals. These are symptoms attended to detect and treat symptoms that may worsen in a short time, such as respiratory failure, cardiac arrhythmia, asthmatic attacks, circulatory disorders, fevers, among others. The context, this paper presents the development of a prototype of a pulse to measure vital signs in hospital patients. It is based on the Internet system the memory index, has been enter means of variable variables, physiological computators, has been in a physical function, with application in use. In this case, there is the monitoring of vital signs in real time, with the immediate detection of critical functions, directing the patient to the process without the exact moment when there were significant changes in their health status. Initially, editing the characteristics of each procedure is considered a process of barriers and opportunities for the application of technologies. Then, an evaluation of sensors and technologies as a whole was made in the process. Subsequently, they were pulse prototyped to measure vital signs. In hardware, it should be able to measure arterial blood pressure, heart rate, body temperature and blood oxygenation, beyond actual data to application. For the software, there is the management of all data and information collected in an automated manner. From this, we discussed the following way to have access to the terms of probability of aggravation of dismissals, the reduction of time and the possibility of errors, the identification of the patient's condition immediately and their contribution to decision making. doctors and nurses.