Nowadays, smart devices have become an indispensable part of our lives with the advancement of technology. Developments of wireless and technology have led to the emergence of innovation providing facilities and solutions to the problems in health care. With this development, whatever position, parameters are measured and tracking wirelessly which required following in the diagnosis and treatment process of chronic illness and diseases. In this study, the smart device based remote patient monitoring system realized using microcontroller and Wi-Fi module. Vital parameters are measured wirelessly over patients such as blood pressure, pulse, body temperature. Moreover, ambient moisture and temperature values are determined by device. The measured parameters are recorded on the device and the parameters are transmitted to the experts via web-based mobile interfaces. With this work, physiological parameters of the patients can be measured in their current position. Consequently; patients will be able to follow parameters without requesting help from health personnel on real time. Moreover they send their parameters to expert persons.