ABSTRACT

In the current digital era, technical advancements in the healthcare industry are expanding quickly and allowing medical professionals to carry out their duties more effectively, such as identifying heart disorders. With the aid of technology, medical professionals can easily monitor and diagnose heart disorders. Therefore, in order to aid in the diagnosis of heart disorders, the authors studied signal processing systems. The prototype method is used in this research by the author. The data was collected by analyzing the ECG signal that was transmitted via the electrodes and the internet. Then, using MATLAB, it processes the signal to obtain the R Peak on the electrocardiographic signal, which is a key metric for identifying heart abnormalities. Following that, the ECG graph and the diagnostic findings will be shown on the MATLAB Web.

Keywords: ECG, MATLAB, Heart Abnormalities, Diagnosis.