The aim of this research is to streamline the process of detecting heart disease and reading electrocardiogram (ECG) signals by developing a single, self-contained device that can be utilized by patients in the comfort of their own homes. The proposed device aims to offer patients a comprehensive assessment of their current medical condition, including heart rate irregularities and potential anomalies, through primary diagnosis. Additionally, it enables the generation of an electrocardiogram (ECG) chart that can be easily forwarded to the patient's designated physician. This process can be completed effortlessly, without necessitating a hospital visit or causing the patient to leave the familiarity and comfort of their surroundings, even in instances involving intricate medical conditions.

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