**Abstract**

In this paper, the user could predict the diseases of cardiovascular. It is the process in which the different types of retinal images are downloaded from the databases. The retina can be photographed relatively straight forwardly with a fundus camera and now with direct digital imaging there is much interest in computer analysis of retinal images for identifying and quantifying the effects of diseases. A retinal image provides a snapshot of what is happening inside the human body. In particular, the state of the retinal vessels has been shown to reflect the cardiovascular condition of the body. In this paper, the implementation of automate segmentation approach is carried out based on active contour method to provide regional information. It is developed in the web mode to access dynamically by using HTML as front-end tool, server side as Python script and client side as JavaScript. The retinal based disease prediction includes Retinal image acquisition, Pre-processing, Vessel Segmentation, Vessel classification, Disease diagnosis.