**ABSTRACT**

This document presents the specification and implemention of a volume rendering application of DICOM images for Android. The application reads the data of the scanned medical exam, selected by the user of the app, and the images are extracted from each of these data. Each image represents a slice. These slices are presented individually in the 2D view in three different directions. In the 3D view they are sorted on a space in three different dimensions in order to form the volume, which represents the part of the body that the exam was made on.

Keywords: DICOM standard, Volume rendering, Android