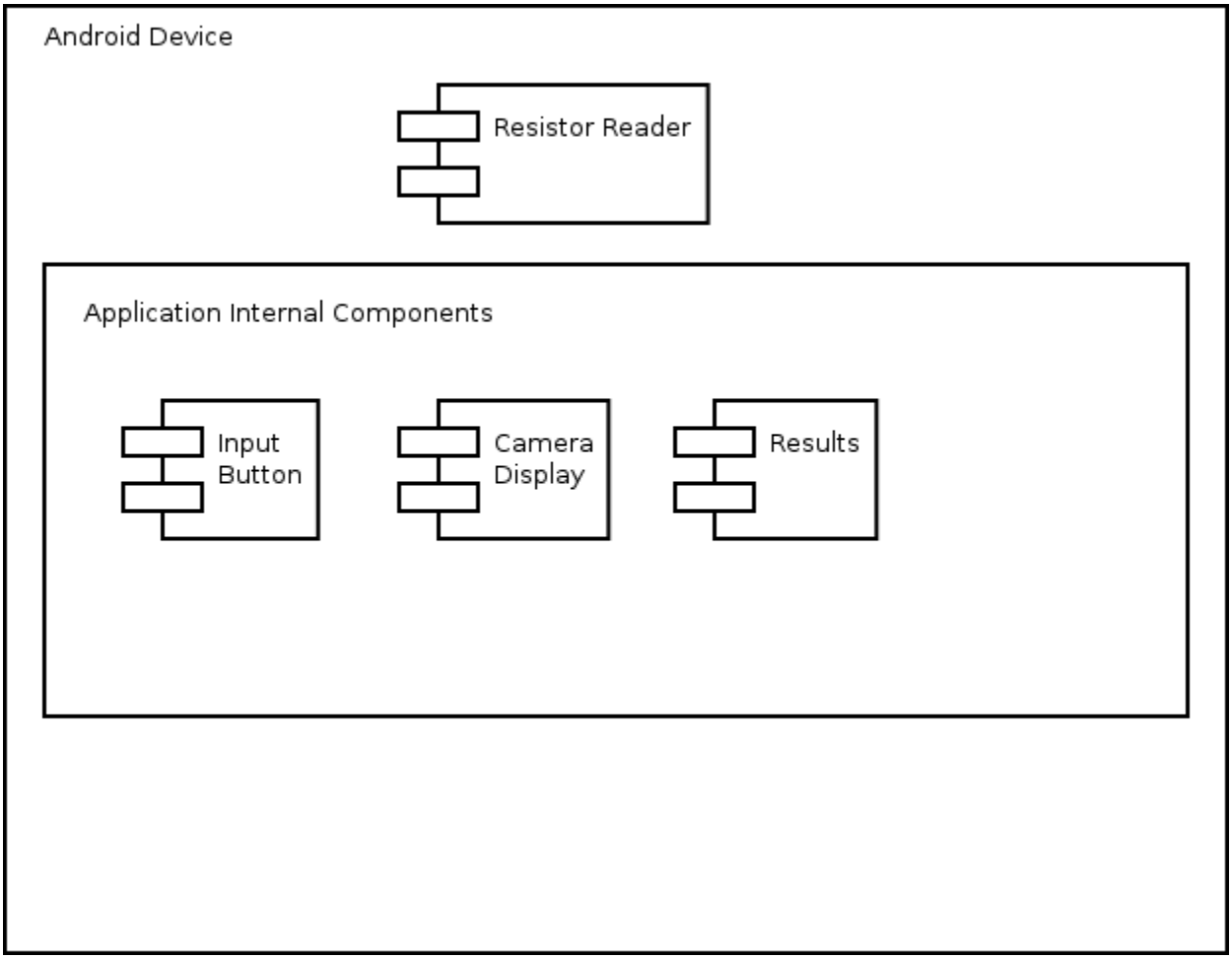
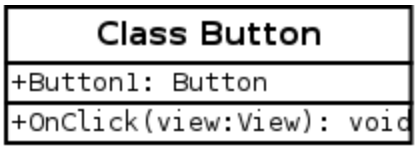
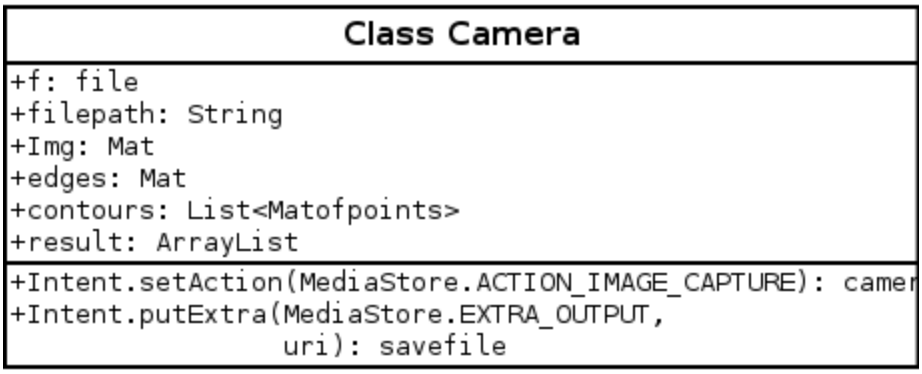
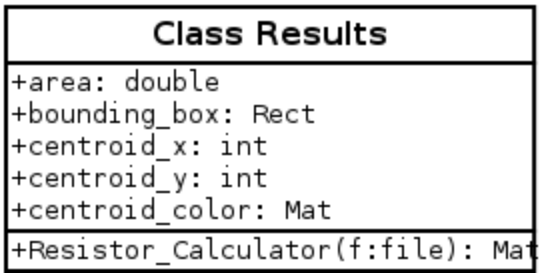

Android Device
Resistor Reader
Application Internal Components
Input
Button
Camera
Display
Results


Class Button
+Button1: Button
+OnClick(view:View): void


Class Camera
+f: file
+filepath: String
+Img: Mat
+edges: Mat
+contours: List<Matofpoints>
+result: ArrayList
+Intent.setAction(MediaStore.ACTION_IMAGE_CAPTURE): camer
+Intent.putExtra(MediaStore.EXTRA_OUTPUT,
uri): savefile


Class Results
+area: double
+bounding_box: Rect
+centroid_x: int
+centroid_y: int
+centroid_color: Mat
+Resistor_Calculator(f:file): Mat