Introduction

I work in a biometrics company as a machine learning engineer, develop algorithms for image recognition tasks. Some data is available on the internet, it can scrapped, but some, unfortunately cannot. It has to be manually collected. The best tool to collect data is smartphone, sometimes tablet or a laptop. There is a need for an app for convenient image data collection with appropriate labels. App could work as template for multiple projects.

Expected List of Features

- support for both mobile and desktop devices that have webcamera
- button for selection of possible label values
- automatic image or video sending to the server with selected label
- both front and back camera should be supported

Market Survey

There are some apps in the market, for example "Mobile Data Collection" for Android. Most common problems are that they are not free, they work only either on Android or iOS, does not have features mentioned above. Also, there might be security concerns using third party app.

I have found a github project called "MobileCameraTemplate" that is intended to be a template for computer vision projects. Problem is that it does not have all the features and I do not know how to add it yet. But this could be a good start.

References

1. https://play.google.com/store/apps/details?id=com.giscloud.mdc&hl=en_US
2. https://github.com/kasperkamperman/MobileCameraTemplate