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Mini Project 4 Camera  
Report

Minimum Requirements:

- App can take pictures. To do this, launch the app, then tap the “Take Picture” button. This will open the camera. Press the shutter button (blue circle) to take picture.
- Camera can record geo-tags. To enable, follow same steps as above, but before taking picture, make sure “Location” is enabled. To show location on map, launch app, press “Go To Gallery” button, select Gallery from the list of recommended apps, go to the MiniProject4 album/folder in the gallery, select photo, press the menu button on the phone, then select the “Show on map” option from the menu. Google Maps will open, with a pin at the location the photo was taken.
- The app can perform simple image manipulation, such as zooming, cropping, and changing the color depth. This is done by following the same steps to see the geotag above, however from the menu, select “Crop” to crop. Pinch or double tap to zoom. Tap the pencil icon on the bottom left of the image to change colors or add filters.
- To see a list of image thumbnails, enter the gallery and the album. The default view will present you with the thumbnails of the images you have taken.

Additional Feature:

- My app can record video, however due to a bug it does not get stored in the MiniProject4 album, but in the default camera album. To record a video, press the “Take Video” option after launching the app.

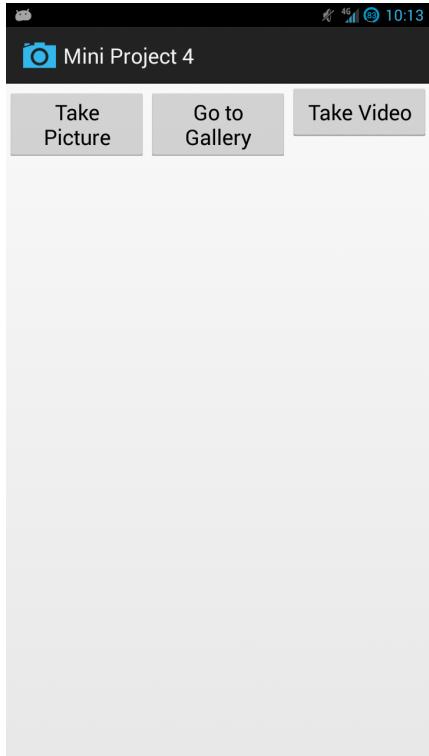
How to Use the App:

- See Minimum Requirements section above.

Features that do not work as requested:

- I realize that many of the main points of the app take advantage of some of the preexisting features in Android, such as the ability for the camera API to store metadata such as photo location, and the ability of the gallery to show thumbnails, and perform several image manipulations. I did not program these features of the gallery, rather, I have my app launch the built in gallery to perform several of these actions. Since the gallery application is built in to all Android phones, I thought it would be wise to take advantage of the app and its abilities rather than recreate the wheel.
- Touching the pin on the map will not show the photo

Screenshots:



Initial view of app



App camera taking a picture, with the focus circle



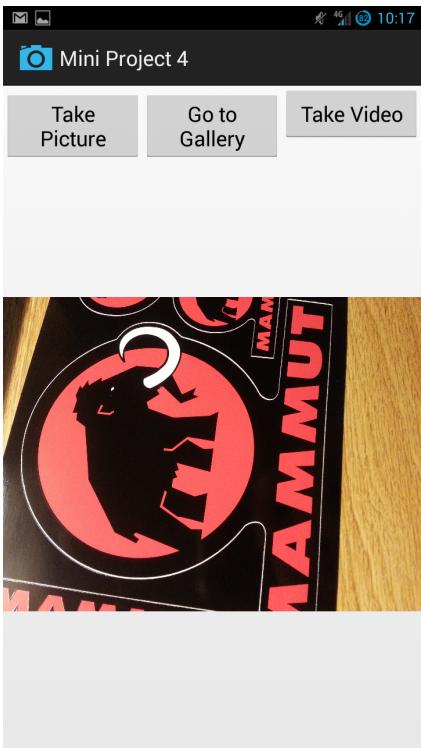
App camera has taken the picture, choose to reject, redo, or accept



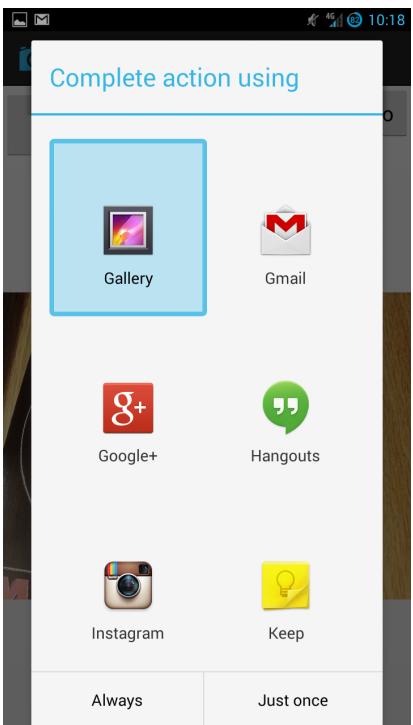
App camera recording a video



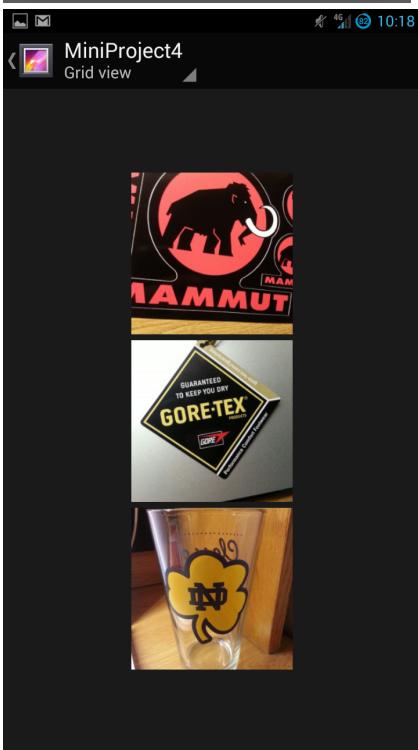
App camera reviewing a video. You can play, reject, or accept the video



The view of the app after taking an accepting an image



The menu after choosing “Go to Gallery”



Gallery view of the image thumbnails



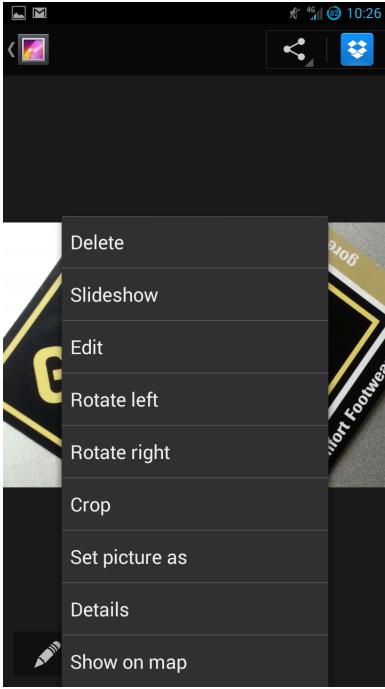
Cropping an image



Gallery including cropped image



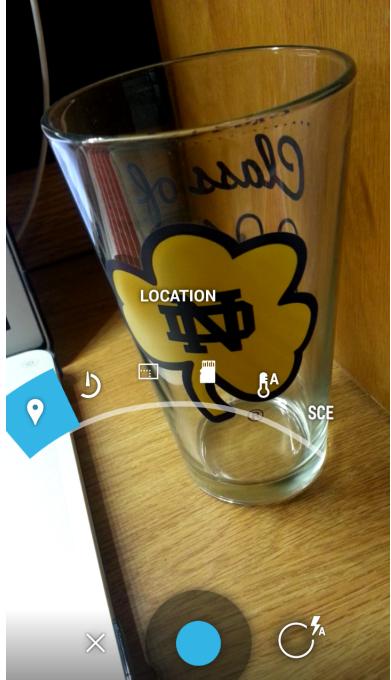
The cropped image



The menu in the gallery, including crop and show on map



showing the location of the image in Google Maps



Menu to ensure that location is enabled