

PHOTO EDITOR (ANDROID)

Ever been on a trip without posting hundreds of snaps on Snapchat or Instagram? Well, the answer is definitely no! So by now, many of you may have guessed the problem or got a slight insight of it. Yes, this problem statement is for snap lovers. The objective of the problem statement is that you end up coding a Photo Editor, for yourself.

NECESSARY FEATURES :

- It will have a main activity, which would comprise of a single button to open the device's camera app or gallery to capture/select an image.
- The image would be rendered in a view and there would be some buttons allowing editing options.
- Write: User should be able to enter text into an edittext. The edittext should be present in the center of the image.
- Draw: User should also be able to draw/write using finger motion on the captured image. The drawing should appear above the image.
- Emojis: Ability to insert emojis using some emojis api available for android. It also has to be combined into the main image bitmap similar to the above two steps.
- Save: Clicking on this button should enable user to save image in his gallery.

- Cancel: It should be present in the top left corner and should move to the main preview of the application.

BONUS FEATURES :

- Elegant User Interface, particularly **Material UI**.
- There can be a provision to change the stroke width of the text/drawing drawn over the image.
- Allowing the feature to **crop** the image will be a great add on.
- Allowing **rotation** of the selected image will also be an add on.

Hint : Accomplishing the last two features may be difficult while trying to entirely code it. **Android libraries** prove to be helpful in such cases. You can use the library for cropping the image (coded up by someone else) directly in your app while keeping the code for it abstract. This would reduce a lot of effort from your side. Such libraries are easily available on **Github** (the sooner you get familiar with it, the better it is for you). You just need to search for it and read how to use it.

PS : Bold words can be used as keywords for google search.