Department of Computer Engineering & Applications

Institute of Engineering & Technology

Mini- Project Synopsis

PROJECT TITLE : A mobile based photo editing application with all standard

image editing features

Team detail :

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PROBLEM IN EXISTING SYSTEM :

A lot of photo editing, applications which work either online or offline and both, a lot of applications are available which is system dependent they do not work different systems and a lot of photo editing application is available which is provide an edited photograph with watermark or logo. Brightness has always been an issue, most often pictures turn out darker than expected, and correcting brightness can be an issue. Lighting as monitoring is very important to highlight the product in an image. Brightness correction along with enhancing and manipulating is done in Photo editing services. Some of the other services are red-eye removal, perspective correction, removing lens distortion, and adding special effects. While color enhancement works on many photographs, but a lot of photo editing applications are not adjusted to clean and over the whole photograph.

There are also a number of online photo editing applications tools that allow you to upload a photograph and perform a number of artistic manipulations on the image, including cropping, adding borders, adding text, changing the background, adding objects to the background, etc, but all the photo editing applications can not do essay work for photo editing, user required more knowledge to do a better photograph with the help of the photo editing applications.

Reason for selecting the topic:

Capture many events with the camera have become the need of everyone. Advances in technology bring the smartphone is supported with a camera in it. The mobile application supports the interest of people in photography that provides features like image editing. Photo-editing apps are in great demand to produce the perfect picture. This allows designers to regularly engage in this kind of updates.In this world lot of companies manly e-commerce company sale own products online with the help of a product image then the photograph is very important between the company and the customer. An effective user interface for photo-editing services helps non-designers create beautiful photos with no significant effort. The designer's job is to organize and present all the features in that way so that everyone can do photo editing effectively and intuitively. The result is mobile photo editors can be understood by the user if presented with a good user interface. An effective photograph

makes more people get jobs in a lot of areas just like an advertisement, photography, and photo editing. *Java and its byte code concept lead to true cross-platform development–no more if defs to differentiate between platforms with different-sized integer types, etc.*

<mark>Objectives:</mark>

Users shall be able to perform basic as well as advanced photo post-processing on their digital images. The GUI shall be similar to the GUI model provided in the file Photo EditorGUI.vsd. The GUI model shows the screen layout and the approximate position of the necessary buttons. The buttons to be used are not defined. The buttons should be chosen so that they can be used intuitively.Errors shall be reported via exceptions. The exception- handling mechanism is based on the Microsoft Exception Management Application Block (described in detail later in this chapter) and needs to be extended to show error messages in a window on the screen. Every exception shall be displayed on the screen within a dialog window. A meaningful error message shall be displayed. For fatal errors, from which the application is not able to recover, the exception is written into the event log, and the application is shut down.It shall be possible to load pictures into the photo editor application, alter them, and save them either to the same or to a new file. An error message is displayed if the image format is not known (see also image_format).If an image is loaded, then the photo editor shall provide the functionality to select a region of interest and crop the image to that region.If an image is loaded, the photo editor shall be able to rotate an image by 90 degrees in both directions.If an image is loaded, the photo editor shall be able to flip an image vertically and horizontally.The supported image formats are JPG and GIF. The supported image sizes range from 100 pixels to 2,048 pixels for both width and height. An error is reported if the image format is not known.The target platform operating system is Windows and Android. No special hardware requirement is necessary.

the requirements that are to be implemented in that iteration. This allows us to choose the best possible design and therefore the best possible implementation for the system. The photo editor application will run in its own namespace. For this iteration, the photo editor application will provide basic functionality as well as advanced functionality. An image editing application for digital photos. It is used to crop and touch up photos, as well as organize them into albums and slide shows. Photo editors typically do have the
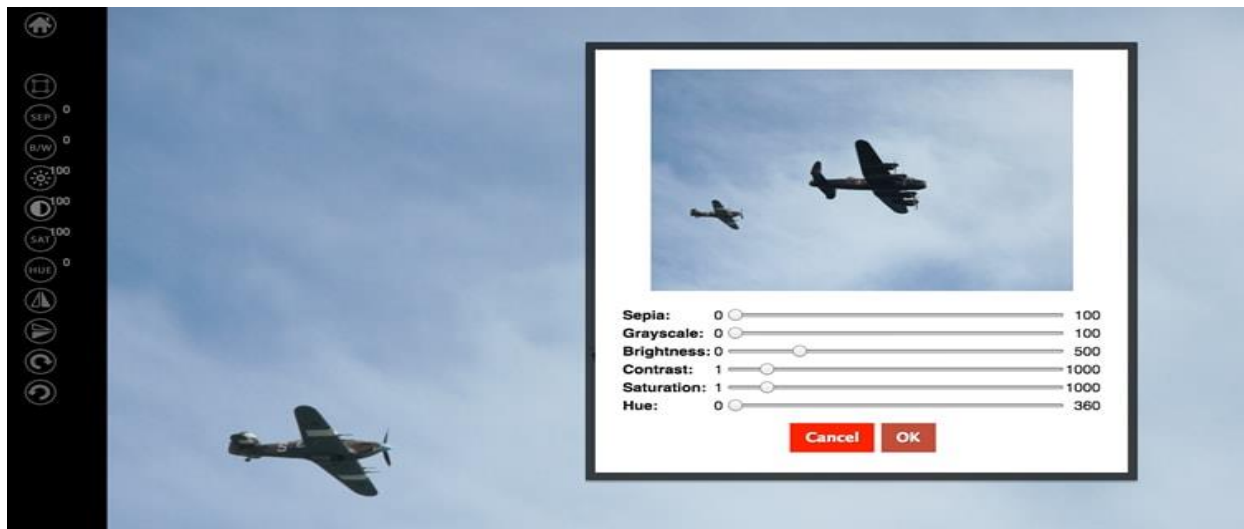
myriad filters. It provides to retouch, bright, and make a colorful photo, editing tools and with lots of extra features.

Literature Survey :

In order to fully understand the impact of this photo viewer and editor in an industrial scenario, it is important to first take a back-seat and ensure what a photo editor conjures up with, by having feasibility study and evaluating various scenarios, and why it should be implemented and from what perspective it will be accountable? Lastly, the conceptual literature review will focus on how an innovative and practical application can be implemented alongside the pre-existing applications in the modern trends of an industrial scenario, keeping in mind both the subject world and the usage world. The facets that this photo editor deals with to innovate in designing this application which would help us in image viewing and editing. The existence of this very model will furnish individuals with a sense of confidence to experiment and examine with various facets and genres of image viewing from the app store perspective along with image editing.

Future Scope:

This application is accessible on any system and any platform. This application can be used to change the setting of old photos, creating a new type of icon to add them to applications and web sites.

This application can be used to change the format of images from one file type to another in a simple way so that users or programmers can use one image in any format according to compatibility and

accessibility in their applications. The ' Smartphone Image Editing Application market' report, recently added by Market Study Report, LLC, examines the industry in terms of the global expanse, highlighting the present & future growth potential of each region as well as consolidated statistics. The study also presents a precise summary of the competitive milieu, key developments, and application landscape of the Smartphone Image Editing Application market based on the impact of the financial and non-financial facades of the industry.The Smartphone Image Editing Application market report underlines the significant growth opportunities, drivers, and challenges that are slated to formulate the growth orbit of this industry vertical in the upcoming years.

Methodology:

A good interface can be understood by the user. after being observed, it can be investigated how to construct a workflow for creating high quality image editing on mobile application. The way is quite simple, users just open a photo, then edits and save.

Instructions:

This activity is meant to introduce you to your software editing program in a more in-depth way. At the end, you should be able to easily repeat the steps necessary to open up a given tool at any time.

1.Open your photo editing Application program.

2.Open up a photo file (it's easier to open up tools when you have a photo loaded into your program).

3.With your photo editing journal open beside you, find and open each of the following tools. For each tool, write down the path of how you got there. For instance, the best way to do it is like this:

"Brightness: Edit> Adjust> Brightness" In the future, whenever you need to get to the brightness tool,

you simply have to open up your journal and find the path. This can save you a lot of time looking

for tools until you have your Application paths memorized. If you can't find a tool, try searching for it

in your Application "Help" menu.

Tools:

Crop Tool, Straighten Tool, Selection Tool, Hue Tool, Noise Reduction Tool Frame Options, Saving

Options, Blur Tool, Exposure Tool, Brightening Tool Red-Eye Tool, Sharpening Tools, Levels/Histogram

Tool, Colour Filters Rotate Tool, Contrast Tool, Saturation Tool, Clone/Retouch Tool, Print Options,

Colour Temperature Tool.

Hardware & Software to be used.

Hardware:
1. 1 vCPU/cores, 2 GB RAM
2. **JVM** (is not a real **hardware** machine but a software layer which resembles a **hardware** platform.)

Software:
 1. Android devices with Android 7+

 2.Java Coding/Decoding Environment/Compiler

Testing:
1.Selection of the device.

2. Documentation **Testing**.

3. Functional **testing**.

4.Usability **Testing**.

5, (User Interface) **testing**,

6. Compatibility (Configuration) **testing**.

7.Performance **testing**.

8.Security **testing**.

Contribution:

By using GitHub platform to contributing to a project.

Scope for extension into a major project:

This application is accessible on any system and any platform. This application can be used to change the platform like Flutter or more advance technology can be used for enhancement of the project into the major project then after photo editing application is applicable to run on different platforms like Windows, Android , and ios, which is very useful to edit photo similar to the professional photo.

Conclusion:

This is an image editor with various image editing functionality that allows you to crop, zoom, transform, adjust brightness, and apply more such transformations over an image.This software system first allows the user to choose an image from your local computer.A menu bar on the top of the screen provides this functionality.

The menu bar allows the user to open a new image and even save an edited image in your computer.The application also allows you to zoom in and out of the image.

The user may apply various transformations over an image.The user may adjust image brightness and contrast.Users can even apply gamma correction to the image.

It also allows the user to crop and rotate the image as needed.The application also allows users to add reddish, bluish, and greenish effects to the image.Finally, the user may save the edited file as needed.