

List of Features:

1. Pinch Gestures: Image will be zoom in and out using Pinch gestures. Added UIPinchGestureRecognizer in the viewDidLoad() method and then declared method in objective - C
2. Share Image Feature: We can share image, save image on our phone using UIActivityContoller.
3. Open Image Feature: We can reopen image which was saved previously and can edit it and resave it. We can open images from photo albums also.
4. Camera Feature: we can click image from camera
5. Text Feature: Alert box will appear in the middle section of the screen, provide text and that will appear in static style as image.

Challenges and solutions:

1. Share was not working as key was not listed in info.plist file.
2. Unable to use text.draw() method as DrawingPanelConroller.swift was not subclass of UIView. So took help from UIGraphicsImageRenderer to draw the text image.
3. Text provided by the alert box. Trying to call new method from alertbox handler section but could not able to it. So wrote all code in handler method only.
4. Text image was resetting/cleaning the original drawing screen. To fix it , we merged previous mainImageView as bottom image and text image 'img' as top image.
5. After fixing to combine previous image and current text image, the main screen was getting zoom in automatically as CGSize() method was fixed as digit. Later on changed with self.view.frame.size in CGSize() method.
6. Camera was not working on simulator and it was generating crash at run time. To keep running the application, provided code to handle when camera is not available on devices.
7. Open button was opening the previously saved images and albums images. But key was not present in info.plist file.



Key	Type	Value
Information Property List	Dictionary	(17 items)
Privacy - Photo Library Usage Des...	String	Allow Photo Library to change Photos
Privacy - Camera Usage Description	String	Allow Camera to Click Photos
Privacy - Photo Library Additions...	String	Allow Photo Access to Paint Application

8. There was many constrains being used error while run an app in simulator, removed It using stack view for all buttons in top bar.

9. Zoom in/out was not working on mainimageView but it was working on whole screen of phone. Fixed using providing mainimageView as a target in the handler method of UIPinchRecognizer.
10. Error Domain=PlugInKit Code=13 "query cancelled"
UserInfo={NSLocalizedString=query cancelled} error was coming. To resolve it , I have to change in the Product (at the top of the screen) -> Scheme -> EditScheme -> Arguments.In Environment Variables, add OS_ACTIVITY_MODE with a value of "disable"

Limitation:

1. The text is style and position is static. We cannot change it the font and style of text and place also.
2. Zoom out leaves some mark on screen.

Discuss any limitation of the iOS SDK and Xcode you have encountered during the final project as well as the programming assignments.

- The space of xcode is very restricted for me as I was working in virtual machine and xcode was crashing sometimes.

Discuss your overall experience as an iOS developer so far.

- I have enjoyed the swift language as it is very comfortable for developer and taking some great aspect of other languages like Java, Scala, C, and obj. C. I am really looking forward to learning more and deep drive into iOS.
- Using virtual machine, I have enjoyed iOS system.

Contributions

- Share image
- Open Image
- Save Image
- Image using Camera
- Text Image