DocStore 29-04-2020

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Abstract

In our daily life Many important documents with us are most regularly as a hard copy like Driving liceance, Adhar Card, Insurance, etc.So some times we miss the documents or documents are in corrupted form so that overcome the this types of limitation in our daily life we interduce the DocStore.

1 Introduction

What is DocStore?

"In the name of this project DocStore we can analyzes that Doc means document and Store means storager that will scan the objects and store into the secondary storage of any smartphone devices."

Using DocStore we can store the object like document in our storage devices. All electronic devices Smart Phones, Tablets, Smart Watches have limited amount of data storage capacity in them. This application can automatic store data in the cloud storage.

If the page is detected, it compensates any perspective from the image adjusting it to a 90 degree top view and saves it on a folder on the device.

It is also possible to launch the application from any other application that asks for a picture, just we have to make sure that there is no default running application with this action.

Features:

- •Live detection means Autoclick and scan the documents
- •Cropping UI
- •Multiuse Application
- •Image Filters
- •PDF Creation

2 Objective

The two main objectives for DocStore are as follow:

- i: To scan the objects using camera of any Android and ios devices.
- ii: Store the objects like document in secondary storage of devices and cloud storage.

3 Development Platform

Tools:

Visual Studio Code, Expo, Expo Snack Technology:

React-Native Framework

For Android And IOS: I use the Expo Client that run on android and ios both devices.

3.1 Need Of DocStore

Save Time Scanned documents allow you efficiently retrieve documents. Scanned records can eliminate the need for costly reproduction and mailing.

They are also easier to use and track electronically. Document scanning allows less hard work on projects across geographic areas.

Therefor I build the DocStore to scan and store the data in devices.

In this project main feature is auto detect and click the document and store the documents which is very helpfull for everyone because many scanners has not auto detect and clicking feature.

4 Properties

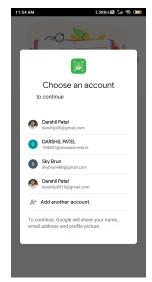
Properties or we can say functionality that use to build this project as follows:

Properties	Туре	Default
manualOnly	bool	false
enableTorch	bool	false
detectionCountBeforeCapture	number	15
brightness	number	10
contrast	number	1
overlayColor	string	none
onPermissionsDenied	func	null
onRectangleDetect	object	stablecounter

API

I use wrapper facilitates for google drive(cloud storage) api.

4.1 Test Cases (Working Images)



1: Login to Gmail for cloud storage



2: Main layout of DocStore



3: Require access to cameras or choose the cameras for scanning



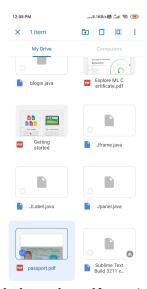
4: Pdf successfully generated.



5: Pdf Save in Device's Internal Stroage.



6: To Save pdf in login account.



7: Selected mark shows that pdf store in Cloud Storage



8: open device camera for capture the image



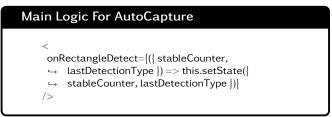
9: If click on True then it will convert Image to Text



10: Image To Text

4.2 Code

The main logic for auto detect and capture the documents is as following box:



4.3 Code References

- [1] React-Native practice projects
- [2] Mosh Programming, Youtube
- [3] ReactNative.dev,Documentation

5 Advantages

i:We don't need to hard copy of documents with us ,we can save document in our devices.

ii:Using auto detation we don't need to crop the images. iii:We can save documents autometically in cloud storage as backup.

iv:We can save our time using this application.

5.1 Disadvantages

i:Because of the version of node.js 12.15.0 that is used in the project it needs to run on Android 7.0 (Nougat) or new version.For IOS we need IOS 9 or Higher version. ii:Some times it will not work properly because of device problems like overheating, device software problems.

5.2 Limitation

i:Some times it's UI not adjustable in all devices because of their old model or any other reason.

ii:It will save documents in device storage and cloud storage but If network is gone then it will not store the document in cloud storage it will only save in device storage.

6 Future Enhancements

i:I want to add one feature that if network is gone then when ever device network is connect it will store the document in cloud storage.

ii:Also I want to make this application as multifeatures application like scanning,image to text,photo translater,etc.

7 Conclusion

The conclusions of this project are summarized as the DocStore is designed and constructed for the current work like Instant scan the document at any time and any where. The main feature of this project is We can save documents autometically in cloud storage as backup.

References

- [1] Bonnie Eisenman. Learning react native: Building native mobile apps with javascript. 1st Edition.
- [2] Maximilian Schwarzmüller. React native the practical guide. April 2018.
- [3] docs.expo.io. Expo documentation.