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DOCUMENTATION MANAGER APP

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ABSTRACT

The mobile app market is growing rapidly. Most organizations and businesses have embraced mobile apps as the best way to engage with users. A PEW study found that 77% of American adults own a smartphone. This is an important motivating factor for organizations to include all the best features in their mobile apps to meet their business needs. One of the most important features to implement in a mobile application is scanning and sending documents. Many business sectors require users to submit different documents for various business reasons. Along with the smartphone comes a camera that gives the user the ability to take a picture. Adding the ability to scan important documents to your mobile device and instantly download them is a great and user-friendly feature. The idea of our project is to develop a mobile application that is a universal solution for editing, designing, and formatting documents. The app helps users scan documents, and edit images by cropping and resizing, splitting or merging PDFs, and more.

Keywords: Documentation Manager, Scan Documents, Image Cropping And Resizing, Spliting Or Merging Pdfs.

I. INTRODUCTION

Mobile applications grew quickly within 20 years. By providing an effective, fast, consistent, orthodox tool in the form of the Internet and mobile applications, information technology plays an important role in penetrating people who play an important role in changing the lives of many people around the world. The documentation manager application converts the paper data in the physical format to the digital data. Scanned documents are wonderful. This allows you to keep a paper stack in a folder, making it much less space, and it is easy to organize, move and copy. The Documentation Manager application is an Android application for a solution that stores, generates, and converts a variety of documents. The application is used as a target that meets the entire promise and requirements required during the documentation process. Features of an application include adding an image, making a pdf, generating an encrypted file, and merging PDF. It also has PDF separation to edit a document. This application represents all the solutions for all key issues that occur while creating official documents in the professional world.

II. LITERATURE SURVEY

(Android-based document scanning and sharing By Mehul Kanojiya, Rajkumar Jaiswal, Mahesh Nikam, Keerti Kharatmol)[8]

In this article, the author developed an application called File it Up. This is a unique and efficient 2-in-1 Indian mobile app used to scan and create documents and share all types of files from one device to another. Safe and secure. The File It Up mobile application is protected in the realm of personal data and is encrypted even during data exchange from one device to another. There are many image filter options to enhance your images.

(Cross-platform Mobile Document Scanner by Amit Kiswani)[9]

The author supports a cross-platform approach to scanning documents from internal servers. This white paper also discusses key aspects of computer vision algorithms and how they can be useful for reading, processing, and transforming digital images. The main steps in the scanning implementation include a Gaussian filter and a basic edge detector. The final step discussed is an image segmentation technique called thresholding as a result of adaptive thresholding.

(Making a document scanning application more user-friendly by Aleš Jaklič, Blaž Vrabec)[10]

In this article, the authors have presented two independent algorithms that can be used as preprocessing steps in personal document processing applications. Addresses issues with document positioning and orientation in images and detecting corrupted scans.

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(A Comparative Study of Different Scanning Applications and Flutter Plugins for the Application Designing By Harshali Malgundkar, Prathmesh Tirodkar, Saylee Ghadi, Ashwini Save)[11]

Since the dependency on CamScanner has increased, the need for the Indian scanning application has led to the development of many applications, but the required functions are not available or are not compatible with users. The proposed system performs a combination of rib detection, converts data to points in 4 points and obtains other images, and uses flute plug-ins, multi-_image_picker, and photo filters to remove multiple images and additional filter parameters. It also provides key functions such as scanned copies and OCR executions. Therefore, the application can meet the user's requirements.

III. METHODOLOGY

The system is designed to work as a complete-assistance app for documenting. The system majorly works on the inputs of the user. The user is given a welcome window with a screen and if the user has some recent history of using the app then it has also been seen on the screen. Then the user is asked about the choices of the services he/she wants from the application. There are several services the app provides. All the inputs are taken from the users through the input space and the necessary functions are prepared. The features like conversion of file formats, encryption, decryption, merge, and split all can be implemented in the app. The system proposes the following applications:

1. Conversions of file formats: The app helps in converting files from various formats. Conversion like images to pdf, zip to pdf are possible with the app.

2. Encryption and decryption: The app also provides the encryption function. Here the user has to select a file and then select the encryption option, set a password and the file will be encrypted. It also helps in removing the password.

3. Merge and split: Merge feature helps to merge files together and the split feature will help to differentiate the files from each other.

4. History: This feature shows the recent workspace and the recently used features by the user.

5. Remove pages: Helps to delete the pages from the file.

6. Rearrange pages: Helps to rearrange the position of the pages of the selected document.

7. Create a pdf with multiple images: Here you can select multiple images and create a pdf from it, name it and later save it.

8. Add watermark: Help to add a watermark.

9. Compress: Helps to reduce the size of the pdf.

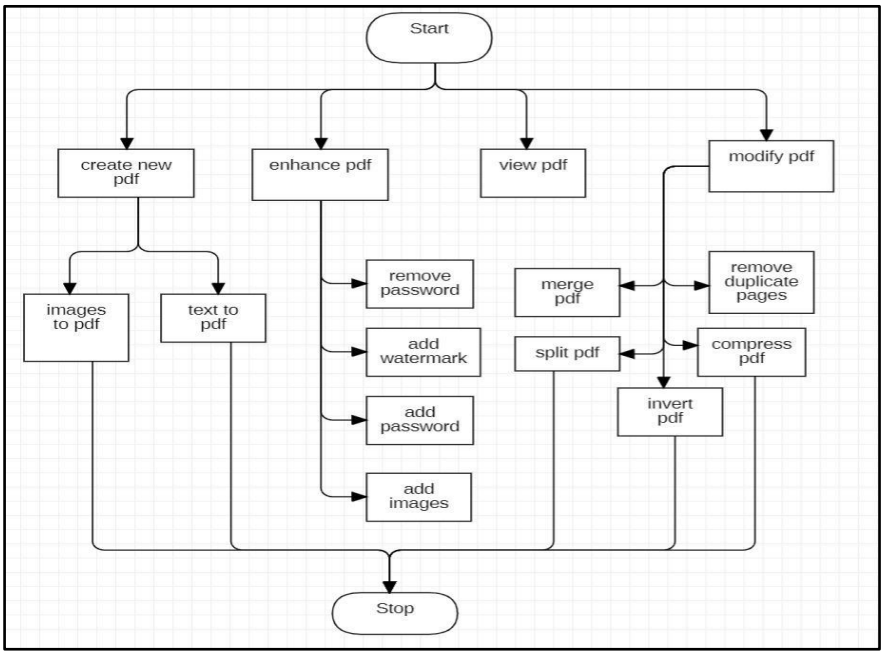

Figure 1: Flowchart

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IV. RESULTS AND DISCUSSION

The output screens for the final app are given below as follows

Fig 2: History Screen

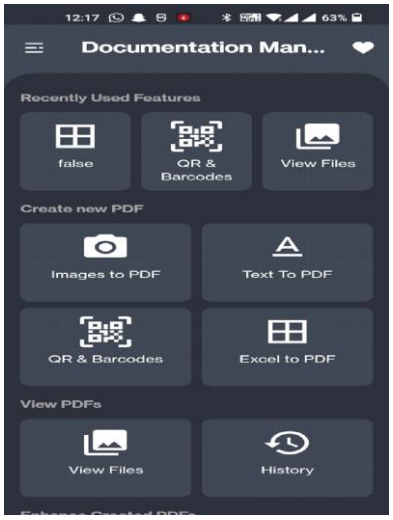

Fig 3: Feature Screen

Fig 4: Feature Selection

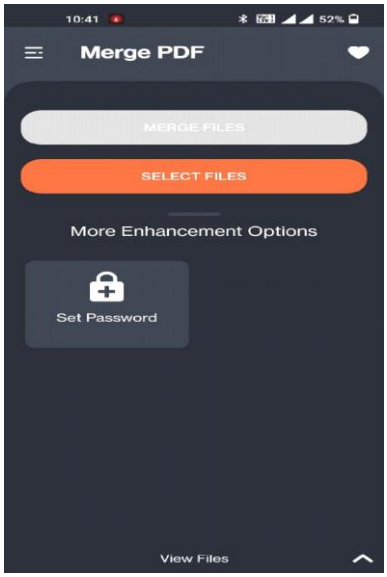

Fig 5: Merge Pdf

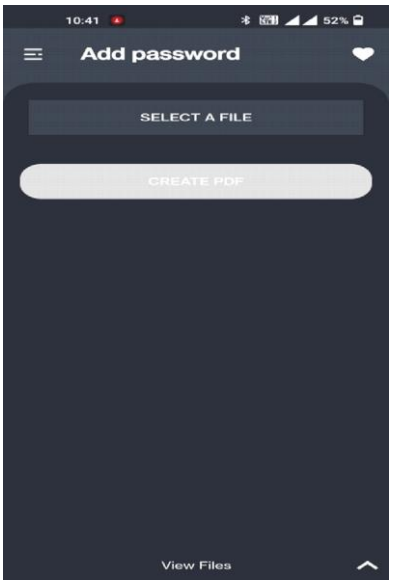

Fig 6: Encrypt Pdf

Fig 7: Compress Pdf

V. CONCLUSION

This project demonstrates the idea of an integrated solution for developing, designing, and maintaining documents. It allows an easy and quick solution for managers and people to get things documented at a faster pace. In this project, we have proposed an idea to group all the necessary tools and techniques required while editing the documents. The app has features for editing images to be added to the pdfs which include cropping images, resizing them, using pdfs to merge or split, etc. It is a tool that comes as an all-in-one solution in assisting in preparing data.

VI. FUTURE SCOPE

For the future scope, the app can be added with other features. The app can include the provision of cloud storage. The user can store data in the cloud and it will be also stored as a backup. Also, voice to text feature can be added where the user can give voice commands, and then the voice input will be recognized and then written into the text. Also, the document reader option can be added. Automatic grammar correction can be added.OCR feature can be added too.

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