A

PROJECT REPORT ON

“PDF CONVERTER”

SUBMITTED

TO

SHIVAJI UNIVERSITY, KOLHAPUR

FOR THE PARTIAL FULFILLMENT OF

MASTER OF COMPUTER APPLICATION

MCA - II, SEM IV

BY

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MR. BHOSALE SANKET UTTARESHWAR

UNDER THE GUIDANCE

OF

Mr. V. P. KAGALE

THROUGH

THE DIRECTOR

KOLHAPUR INSTITUTE OF TECHNOLOGY’S

INSTITUTE OF MANAGEMENT EDUCATION &

RESEARCH, KOLHAPUR.

(2021-2022)

KOLHAPUR INSTITUTE OF TECHNOLOGY'S INSTITUTE OF MANAGEMENT EDUCATION & RESEARCH	**KIT'S** **INSTITUTE OF MANAGEMENT EDUCATION AND RESEARCH** **Gokul Shirgaon, Kolhapur.**

M.C.A. DEPARTMENT

CERTIFICATE

This is to certify that MR. JOGDAND NAVNATH LINGAPPA Roll Number: "19" and Exam Seat no: "_____" and MR. BHOSALE SANKET UTTARESHWAR Roll Number: "04" and Exam Seat no:"_____" are students of this institute studying in MCA-II, (Sem-IV). They have completed the project report titled "PDF CONVERTER", in the partial fulfillment of MASTER OF COMPUTER APPLICATION (M.C.A) and the same is being submitted to the SHIVAJI UNIVERSITY, KOLHAPUR.

To the best of our knowledge this project report is the record of student's own efforts.

Place: Kolhapur

Date:

Mr. V. P. KAGALE **Examiner** **Mr. Sunil S. Patil**

(Teacher Incharge) **(H.O.D- MCA)**

DECLARATION

To,

The Director,

KIT's I.M.E.R, Kolhapur.

Respected Sir,

I undersigned hereby declare that the project entitled "**PDF CONVERTER**" developed me under the guidance of **Mr. V.P. KAGALE** and this project work is submitted in partial fulfilment of the award of master of computer application. The information generated in this project work is based on data collected by me.

I have not copied from any project report submitted to **Shivaji University, Kolhapur** earlier.

Place: Kolhapur.

Date:

Mr. BHOSALE SANKET UTTARESHWAR

ACKNOWLEDGEMENT

I wish to express my sincere thanks to the respected **Mr.V.P. Kagale**, Dr. S. M. Khadilkar (Director) for providing me permission & necessary facilities to complete my project training & also for their guidance, encouragement in completing our project successfully.

I wish to convey my special thanks and immeasurable feelings of gratitude towards our Director Dr. S. M. Khadilkar & faculty for the guidance, encouragement.

I am very much grateful towards my family members for their moral support and patience during the project work.

I record my sincere thanks to all my friends for providing me the moral support during the project work.

Thank You,

Place: Kolhapur

Date:

Mr. BHOSALE SANKET UTTARESHWAR

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CHAPTER 1: Introduction to Project

1.1 About Project

The project, PDF CONVERTER is a Android application that allows the users to handle all PDF related activities like (Images to pdf, Text to pdf, Excel to pdf, QR to pdf, Add Watermark). Interactive GUI and the ability to manage various pdf activities make this system very flexible and convenient. Sometimes student or any person who wanted to convert images to pdf or any other file to pdf then that time user is going to look for online tools here we are providing offline android app to convert pdfs. This application gives him the power and flexibility to manage the images or any other file from a single application.PDF CONVERTER provides images, Text files, Excel sheet. QR codes into pdf features. User can view and Edit pdf. The application is hence useful for Students, Employees, Teachers or any other person and portable manage the images, Text files, QR codes, Excel sheets.

1.2 Existing System

In the existing system, only provides the facility to convert images to pdf, Text files into pdf. The previous applications were failure to publish the convert QR code into pdf, Excel sheets into pdf format, Adding watermark to the created pdf formats.

In this phase we carry out the task of defining the problem or other words we define our need for this project. The person was using the conventional methods for keeping the information about images, Text Files, QR codes, Excel sheets i.e., activities related with images, Text Files, QR codes, Excel sheets. There is various type of activities performed in pdf converter. It was quite laborious task and involves large number of data records deployed for this purpose.

Disadvantages

- You need a PDF reader to preview the result.
- It cannot convert to other common formats like JPG
- Sometimes created pdf will not be displayed in view section.
- No reverse conversion is allowed.

1.1 Need and Scope of work:

Users are responsible for managing images, Text files, QR codes, Excel sheets facilities. The scope of this project is to develop a pdf converter system by using dependencies like (ButterKnife, Folderpicker, image-cropper, iTextG. Lottie, Matisse, Material Dialogs, Material Ripple, Morphing Button, Picasso, Picasso-transformations, Photo-Editor, viewpager-transformers, zxing) to achieve the objective of the project. The application is going to recognize the images, Text files, QR codes, Excel Sheets and using tools it converts them to pdf.

Need

1) PDFs Aren't Editable

PDF converters are primarily used for making PDF content accessible. Major editing or analysis is what most PDF content requires if the format is used for transmission. PDF converters can save you all the retyping and data input. You can extract PDF content into other editable formats where you can perform the needed analysis easily.

2) Access, Generate And Work In Different Formats

Freeing up the locked down PDF content leads into another benefit that PDF converters provide: choice of format. There are many diverse formats to which the PDF format can now be converted. Word, Excel, PowerPoint, RTF and HTML are just a short list of the common ones which you can generate. It's ultimately up to you and your work.

3) Going Paperless With Your Files

PDF converters are a simple solution for creating a personal e-filing system. With a PDF converter, you can manage PDF files and document information more effectively. A PDF converter is a good way to keep down the paper consumption and keep your edited work in digital files with the least amount of hassle.

4) The PDF Is A De Facto Standard

What does that mean? By common and popular usage, the PDF is the format professionals turn to when data needs to be kept in tact while being transmitted for review. The PDF is being used across industries, and converting PDF content is inevitably part of that usage. Having a PDF converter will allow you to integrate into such workflows effortlessly.

5) PDF Popularity

Take into consideration that PDFs are now created not just by professionals, but by ordinary end users for ordinary purposes. PDFs are being used on personal webpages for posting documents and miscellaneous content that are impractical as HTML pages. And at one point, you might need to convert those documents in order to use them.

6) Repurposing That PDF Data Completely

Opening PDFs in Adobe Acrobat Professional, you can perform minor editing. However, doing that won't give you the ability to completely repurpose the content; PDF converters will. You can eliminate those makeshift extractions that constantly leave you frustrated in the end.

7) PDF Converters As A Long Term Solution

Admittedly, free online converters are great for quick, one time conversions. Free trials are also great for trying out products. Yet, neither are great for long term solutions. These converters are oftentimes limited, or will restrict your PDF conversions to being done online. With a proper PDF converter, you'll have unlimited access and the ability to work offline whenever you choose.

8) An Investment That's Worth The Time And Money

Time matters. The money you spend matters. Yet, if you don't have a PDF converter, you'll find yourself spending a lot of both looking for other alternatives, alternatives that are perhaps not the best choice. Buying a good PDF converter is a worthwhile investment. Even if you occasionally use PDFs for research or collaboration, it makes working with those PDFs a lot easier.

9) PDF Converters As Learning Tools

It’s general knowledge that you can benefit from everything you do. Expand on what you know about the PDF by learning how to convert one. You’ll learn more about the ins and outs of the PDF than you normally would without a proper PDF converter.

10) PDF Converter Features

PDF conversion features in most applications go beyond the basic one-time quick conversion, and even increase the quality of your conversions. Batch conversions, OCR technology, page extractions, conversion settings—customize your PDF extractions with versatile features and get more out of the conversions you need.

CHAPTER 2: Proposed System

2.1 Proposed System

The PDF CONVERTER application provides the quality service to the end user. This project aims at creating on pdf converting application which can be used by any user i.e., student, teacher, any company employee. The user has to select the images, Text files, Excel Sheets, Scan the QR codes and click on convert them into PDF. They should be able to Add watermark, change font size, font style, change themes like dark, light, we can also apply on password to pdf.

To remove some of disadvantages of conventional methods, a system is proposed which is an PDF CONVERTER.

With the help of this project, we can reduce task deployed for data/information collection to be converted them into pdf thereby eliminating the human errors considerably.

And with this realization our project" PDF CONVERTER" comes into practical usage and also benefiting the students, teachers or any other person as a whole.

Everything that comes into existence must have an objective for its existence. It holds true for our project also. It has been conceived as a powerful tool to help company in maintaining the various activities related with files, images, QR codes. It has several benefits over other already existing application.

2.2 Objectives of System

The objective of PDF CONVERTER is to create a project which maintains images, Text files, QR codes, Excel Sheet in one common format i.e., pdf. It is a Android-based application to be implemented in Android Studio (Java, XML).

2.3 Requirement Engineering

2.3.1 System Requirement

OS

PDF Converter is compatible with the following versions of Windows: Windows XP, Windows Vista, Windows 7, Windows 8 and Windows 10. Double check all the necessary patches and service packs are preinstalled on your computer.

CPU

Intel, AMD or any other compatible processor with at least 1 GHz CPU speed will guarantee successful work with PDF Converter.

RAM

Our recommendation is to have at least 8GB RAM for Windows 7 and Windows 8 for successful work. As for Windows XP and Vista, 4 GB will be sufficient.

Video Card

The program is compatible with 1024x768 resolution. However, we strongly recommend using at least 1280x1024 video card.

Free disk space

Make sure there is not less than 250MB of free disk space to setup PDF converter and extra 50MB for successful work with the files.

2.3.2 System Requirements for Development

Editor	:	AndroidStudio
Operating System	:	Windows 10
Front end	:	Java
Back end	:	SQLite

Android Studio system requirements

The following are the system requirements for Android Studio on Windows.

- 64-bit Microsoft® Windows® 8/10/11
- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

2.4 Feasibility Study

The objective of feasibility study is to determine whether or not the proposed system is feasible. The feasibility is determined in terms of three aspects. These are: -

- **Technical Feasibility**

In this, one has to test whether the system can be developed using existing technology or not. We have used Java as front-end and SQLite as back-end. It is evident that necessary hardware and software are available for development and implementation of proposed system. We acquired the technical knowledge of working in Android Studio Language,and then only we have started designing our project.

- **Behavioural Feasibility**

The users are already using various software for managing their information and sinceit is acceptable by both Programmer as well as User, it is proven to be operationally feasible.

- **Economic Feasibility**

As a part of this, the costs and benefits associated with the proposed system are compared and the project is economically feasible only if tangible and intangible benefits outweigh the cost. The cost for PDF CONVERTER is outweighing the cost and efforts involved in maintaining the QR codes, images, files, Excel sheet and generation of various reports. So, this system is economically feasible.

- **Legal Feasibility**

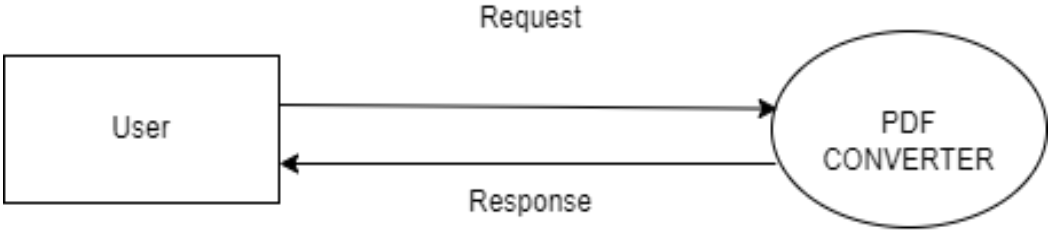
Legal feasibility determines whether the proposed system conflicts with legal requirements, e.g., the Data Protection Act. It will be done by some legal advisors.

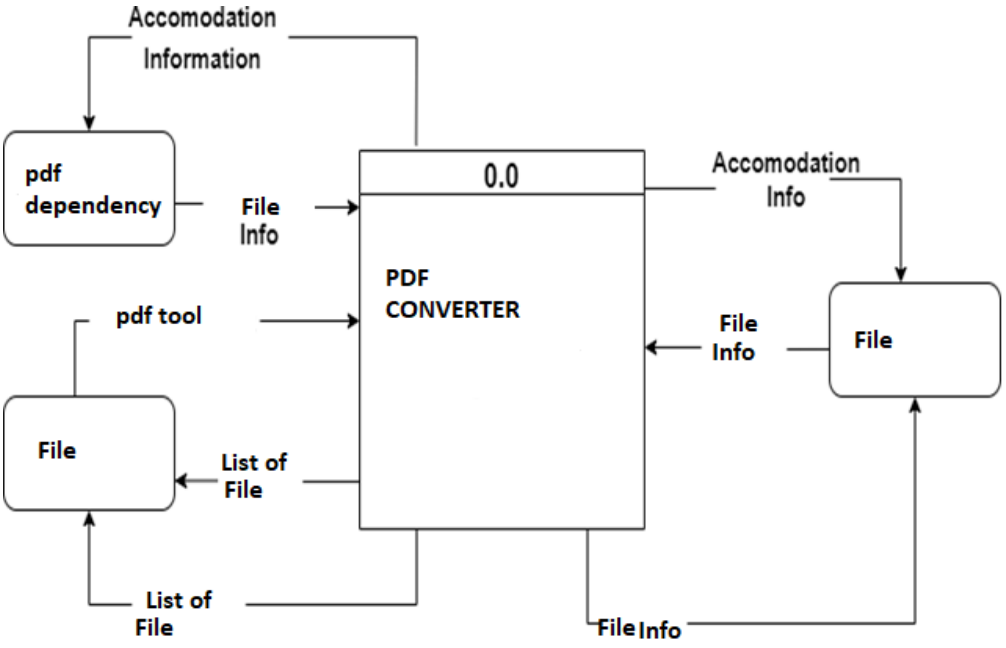
CHAPTER 3: System Analysis

3.1 Data Flow Diagram

Data Flow Diagram

DFD (Level 0):





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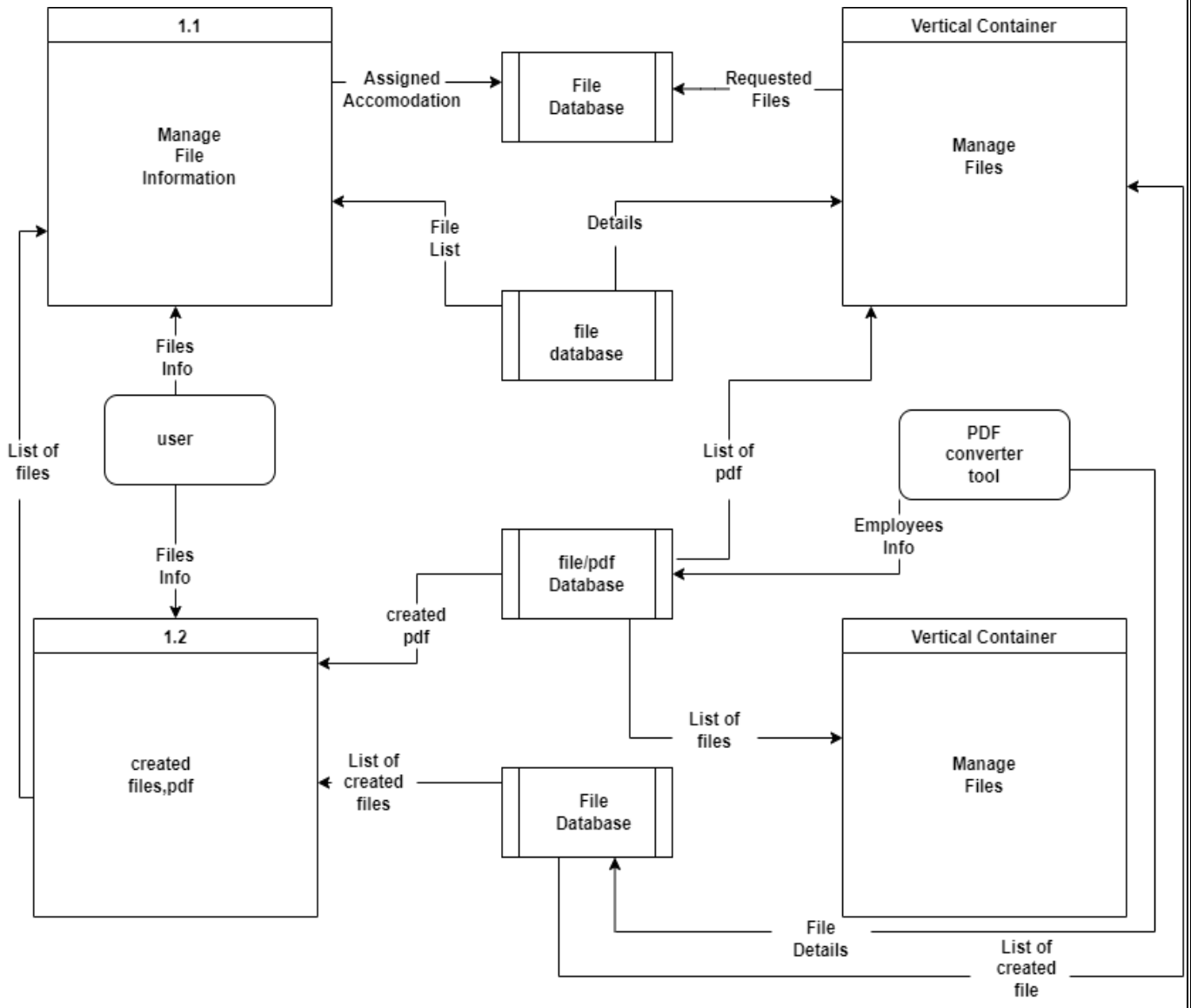
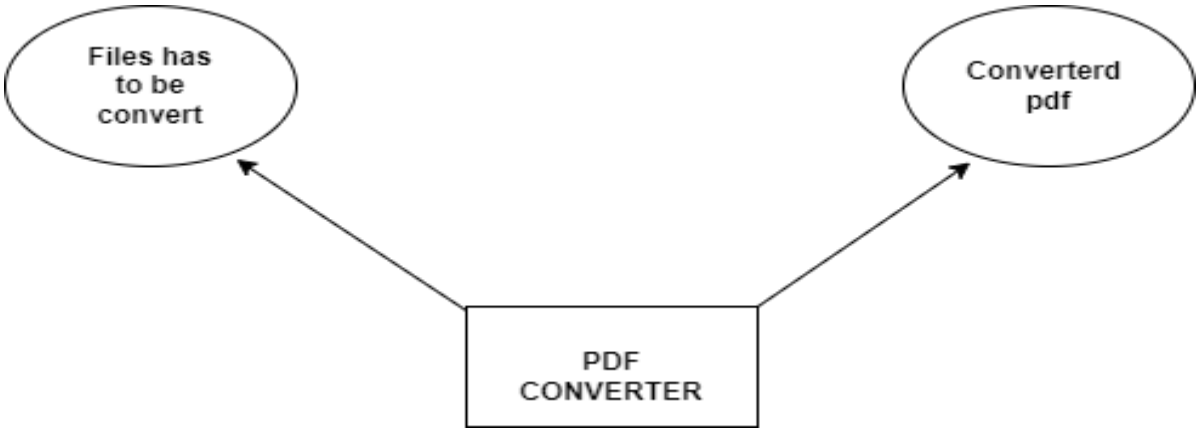
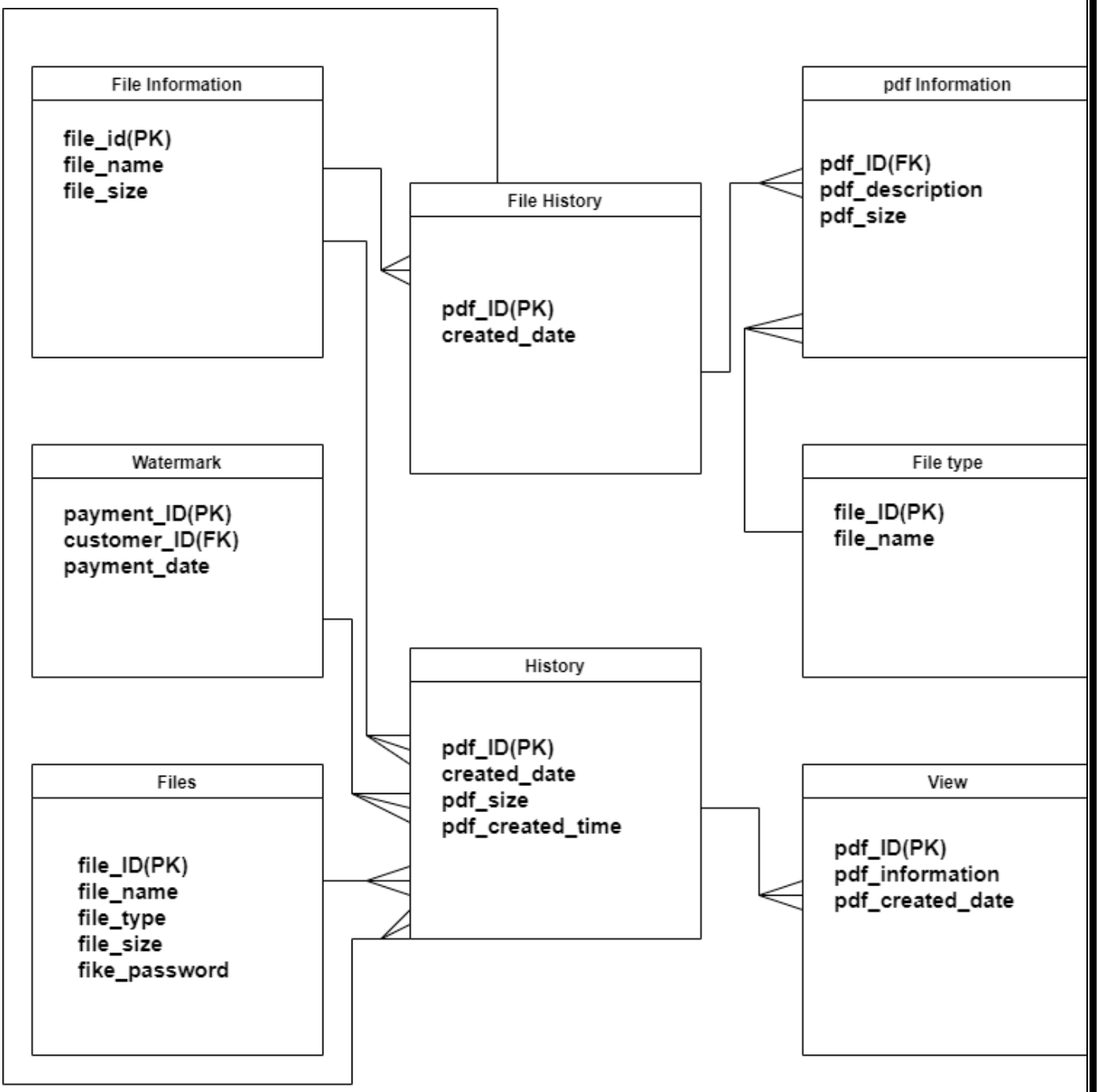

1.1
Manage File Information
Assigned Accomodation
File Database
Requested Files
Vertical Container
Manage Files
File List
Details
file database
Files Info
user
List of files
List of pdf
PDF converter tool
Employees Info
file/pdf Database
Files Info
created pdf
1.2
created files,pdf
List of created files
List of files
Vertical Container
Manage Files
File Database
File Details
List of created file

DFD level (1): Basic



3.2 E-R Diagrams



CHAPTER 4: System Design

4.1 Database Design:

Name	Type	Schema
Dependency		CREATE TABLE `Dependency` (`work_spec_id` TEXT NOT NULL, `prerequisite_id` TEXT NOT NULL, PRIMARY KEY(`work_spec_id`, `prerequisite_id`), FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE CASCADE , FOREIGN KEY(`prerequisite_id`) REFERENCES `WorkSpec`(`id`) ON UPDATECASCADE ON DELETE CASCADE)
work_spec_id	TEXT	"work_spec_id" TEXT NOT NULL
prerequisite_id	TEXT	"prerequisite_id" TEXT NOT NULL
SystemIdInfo		CREATE TABLE `SystemIdInfo` (`work_spec_id` TEXT NOT NULL, `system_id` INTEGER NOT NULL, PRIMARY KEY(`work_spec_id`), FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE CASCADE)
work_spec_id	TEXT	"work_spec_id" TEXT NOT NULL
system_id	INTEGER	"system_id" INTEGER NOT NULL
WorkName		CREATE TABLE `WorkName` (`name` TEXT NOT NULL, `work_spec_id` TEXTNOT NULL, PRIMARY KEY(`name`, `work_spec_id`), FOREIGN KEY(`work_spec_id`) REFERENCES `WorkSpec`(`id`) ON UPDATE CASCADE ON DELETE CASCADE)
name	TEXT	"name" TEXT NOT NULL
work_spec_id	TEXT	"work_spec_id" TEXT NOT NULL
WorkSpec		CREATE TABLE `WorkSpec` (`id` TEXT NOT NULL, `state` INTEGER NOT NULL, `worker_class_name` TEXT NOT NULL, `input_merger_class_name`TEXT, `input` BLOB NOT NULL, `output` BLOB NOT NULL, `initial_delay` INTEGER NOT NULL, `interval_duration` INTEGER NOT NULL, `flex_duration` INTEGER NOT NULL, `run_attempt_count` INTEGERNOT NULL, `backoff_policy` INTEGER NOT NULL, `backoff_delay_duration` INTEGER NOT NULL, `period_start_time` INTEGER NOT NULL, `minimum_retention_duration` INTEGER NOT NULL, `schedule_requested_at` INTEGER NOT NULL, `required_network_type`INTEGER, `requires_charging` INTEGER NOT NULL, `requires_device_idle` INTEGER NOT NULL, `requires_battery_not_low`INTEGER NOT NULL, `requires_storage_not_low` INTEGER NOT NULL, `trigger_content_update_delay` INTEGER NOT NULL, `trigger_max_content_delay` INTEGER NOT NULL, `content_uri_triggers` BLOB, PRIMARY KEY(`id`))
id	TEXT	"id" TEXT NOT NULL
state	INTEGER	"state" INTEGER NOT NULL
worker_class_name	TEXT	"worker_class_name" TEXT NOT NULL
input_merger_class_name	TEXT	"input_merger_class_name" TEXT
input	BLOB	"input" BLOB NOT NULL
output	BLOB	"output" BLOB NOT NULL
initial_delay	INTEGER	"initial_delay" INTEGER NOT NULL
interval_duration	INTEGER	"interval_duration" INTEGER NOT NULL
flex_duration	INTEGER	"flex_duration" INTEGER NOT NULL
run_attempt_count	INTEGER	"run_attempt_count" INTEGER NOT NULL
backoff_policy	INTEGER	"backoff_policy" INTEGER NOT NULL
backoff_delay_duration	INTEGER	"backoff_delay_duration" INTEGER NOT NULL
period_start_time	INTEGER	"period_start_time" INTEGER NOT NULL
minimum_retention_duration	INTEGER	"minimum_retention_duration" INTEGER NOT NULL

schedule_requested_at	INTEGER	"schedule_requested_at" INTEGER NOT NULL
required_network_type	INTEGER	"required_network_type" INTEGER
requires_charging	INTEGER	"requires_charging" INTEGER NOT NULL
requires_device_idle	INTEGER	"requires_device_idle" INTEGER NOT NULL
requires_battery_not_low	INTEGER	"requires_battery_not_low" INTEGER NOT NULL

Views (0)

Name	Type	Schema

Triggers (0)

Name	Type	Schema

Tables (2)

Name	Type	Schema
android_metadata		CREATE TABLE android_metadata (locale TEXT)
locale	TEXT	"locale" TEXT
messages		CREATE TABLE messages (type INTEGER NOT NULL, entry BLOB NOT NULL)
type	INTEGER	"type" INTEGER NOT NULL
entry	BLOB	"entry" BLOB NOT NULL

Indices (0)

Name	Type	Schema

Views (0)

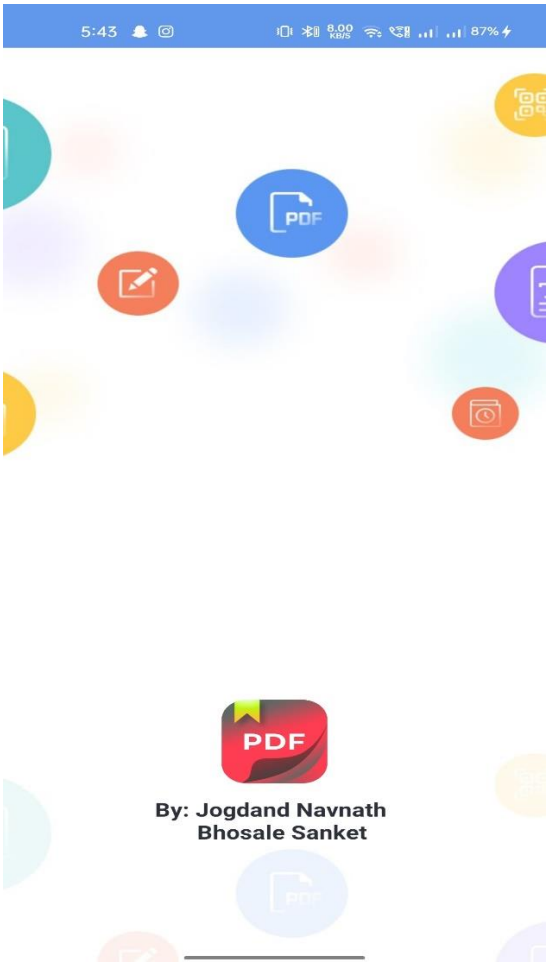
Name	Type	Schema

Triggers (0)

Name	Type	Schema

4.2 Input Design & its samples and Output Screens:

Splash Screen



Home Screen

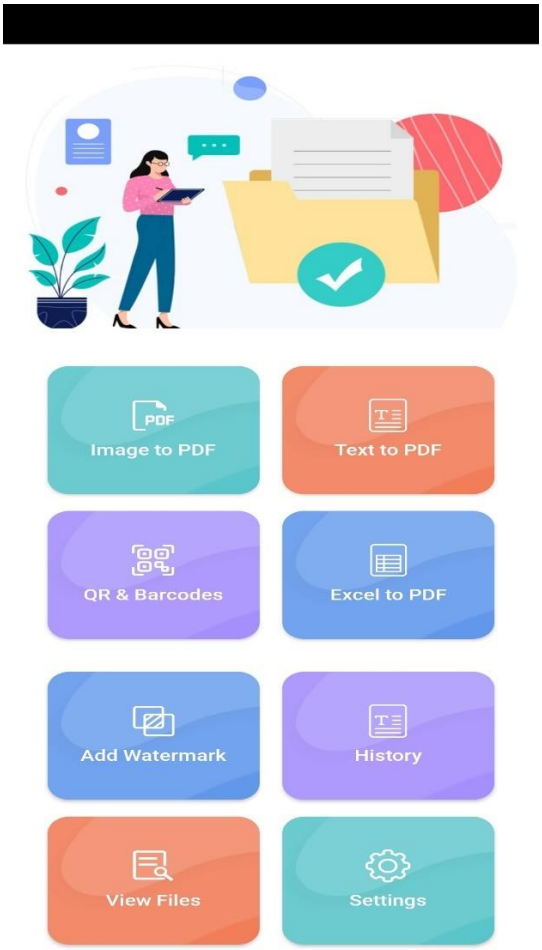
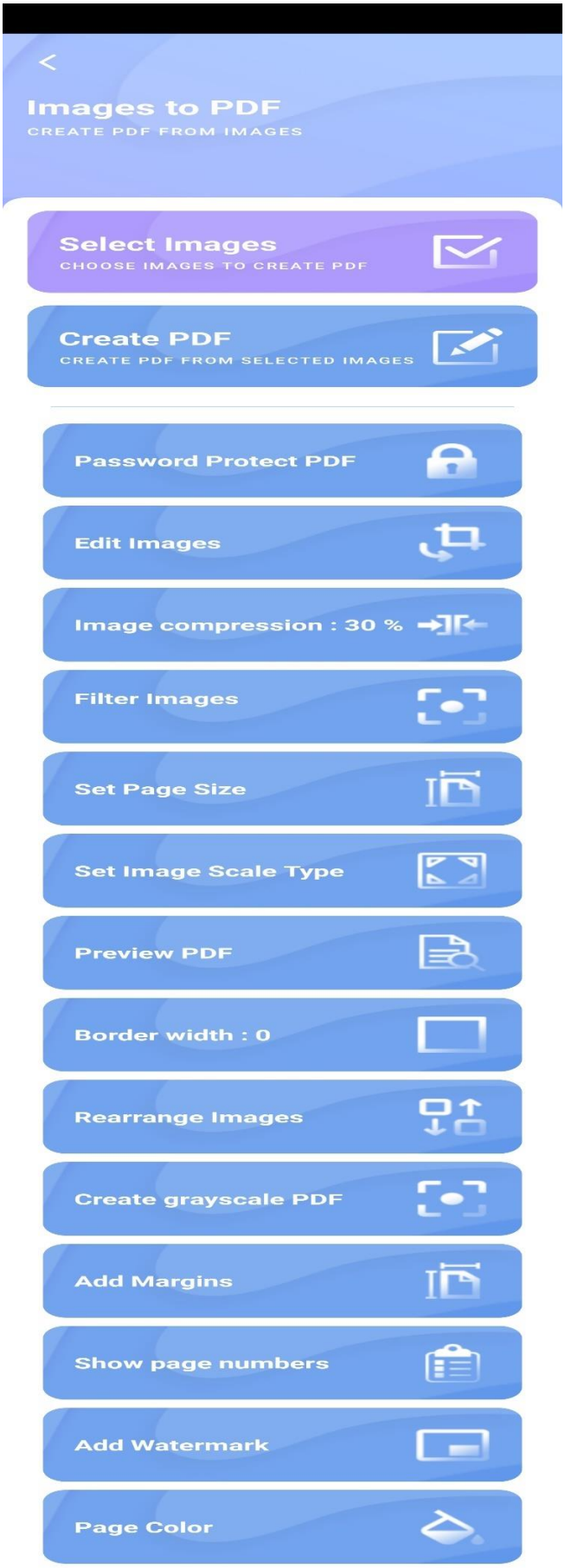
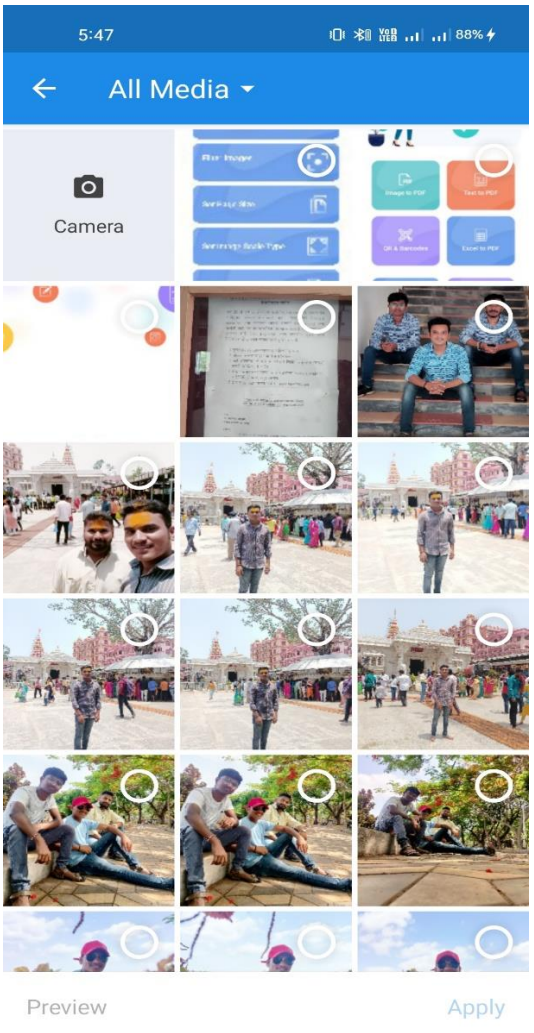


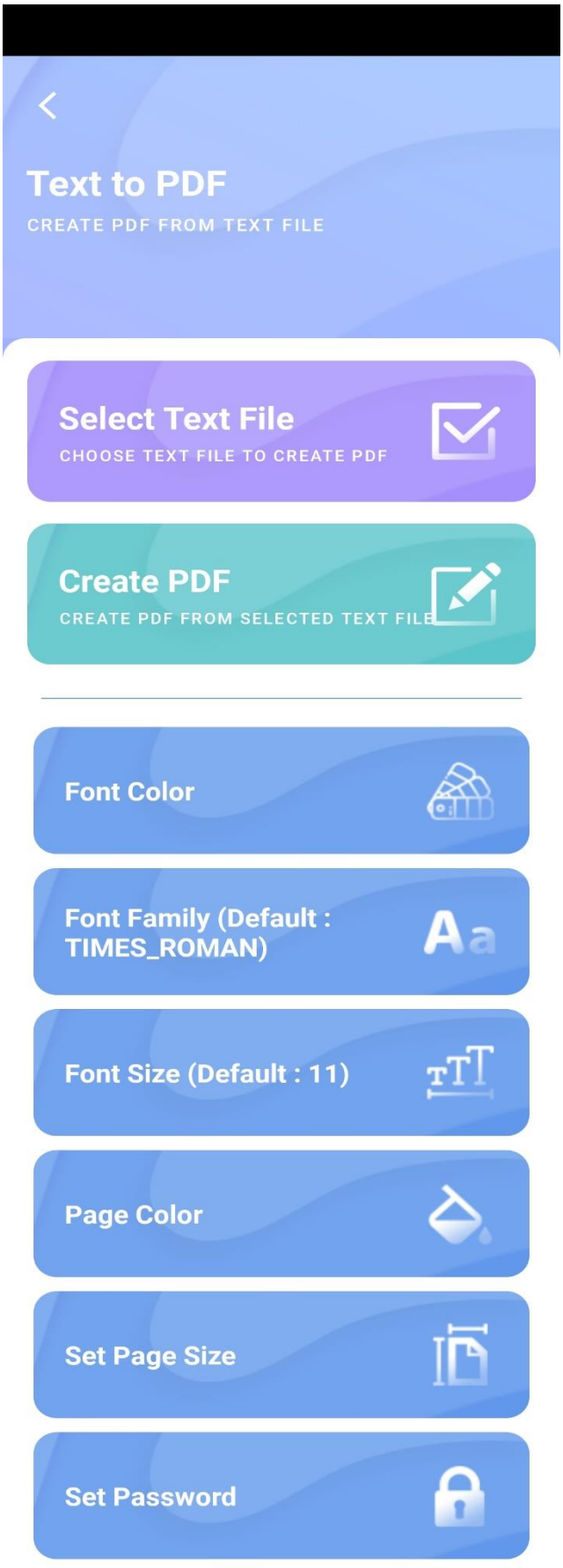
Image to PDF:



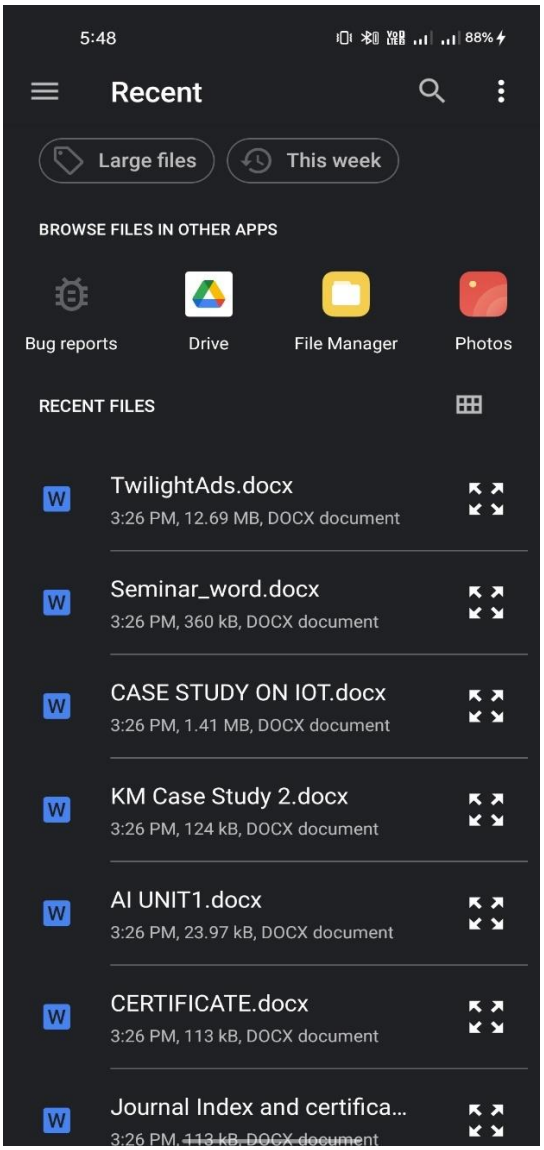
Select Images from Device



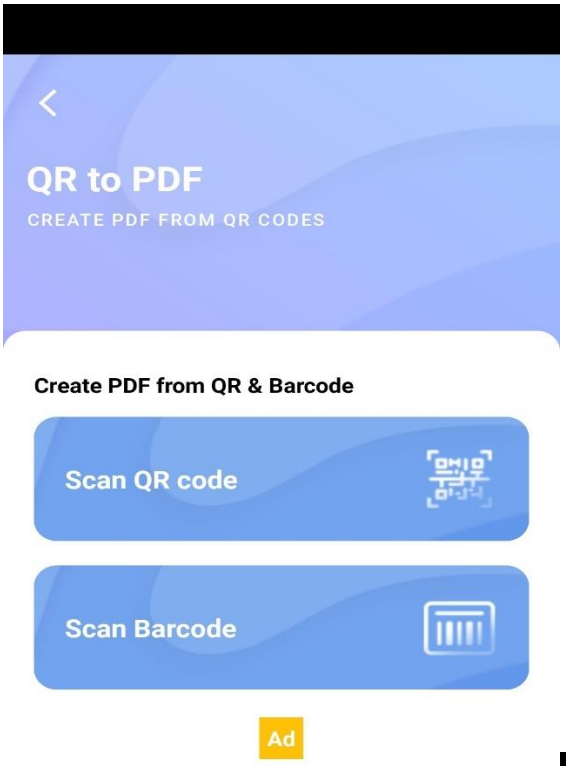
Text to PDF:



Select Text/word Files from Device

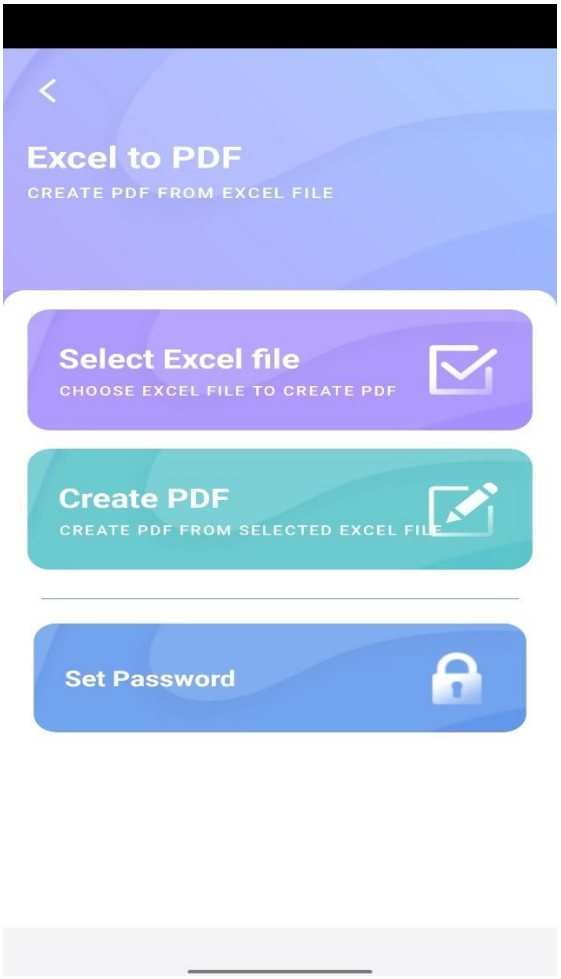


QR to PDF



Scan any QR code or Barcode

Excel to PDF



Add Watermark

Chapter 5 Implementation

5.1 System Requirement

-Hardware Requirements:

- ✓ Average storage 16GB
- ✓ Average RAM 2GB

-Software Requirements:

- ✓ Play store (If app is on Play store)
- ✓ Android Smartphone having API version 12 and above.

5.2 Installation process:

Here we are going to install app via Android Virtual Device or Physical Device Because we haven't uploaded Application on play store.

Method 1

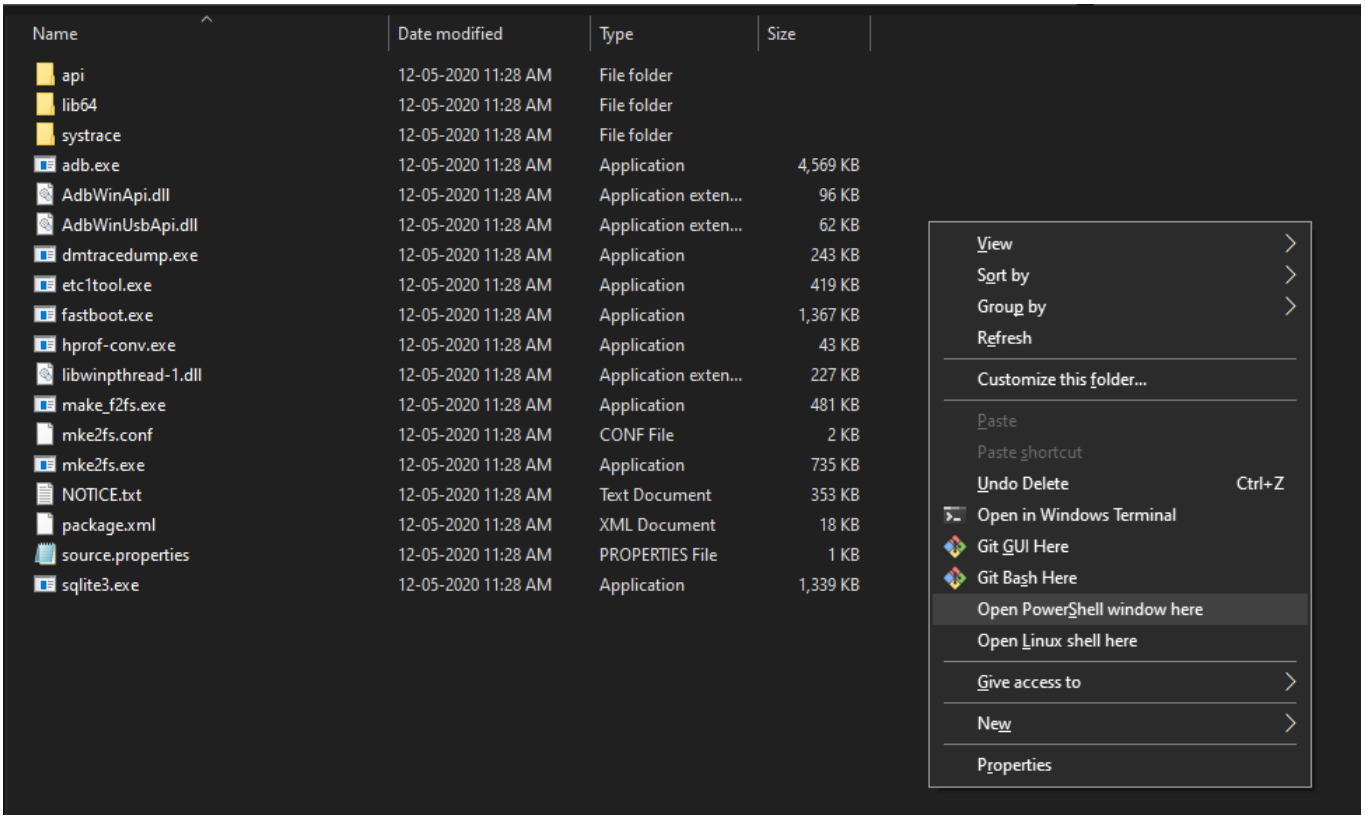
Step 1: Opening Emulator

First of all, we need to open the Android Studio Emulator properly, so that we can see the app that we are going to install in it. Before going to the 2nd Step we will also need that APK file in advance that we will install. In this case, I am using a testapp.apk file that we are going to install.

Step 2: Navigate to the Path below

C:\Users\<**UserName**>\AppData\Local\Android\Sdk\platform-tools

We have to go to the path mentioned above and paste the APK file here, after that Shift+Right Click at the same window and open the PowerShell window.



Opening Powershell window

After opening Powershell type the following commands

.\adb.exe install testapp.apk

In the Powershell window type the following command and it will install the app in the emulator and that's it your APK is installed in the Emulator.

PS C:\Users\Navnath\AppData\Local\Android\Sdk\platform-tools>.\adb.exe install PDF Converter.apk

Success

PS C:\Users\Navnath\AppData\Local\Android\Sdk\platform-tools>

Method 2

This method is much simpler than 1st method. We just need the APK file to install it in the Emulator. First of all, we still have to open the Emulator and after that drag, your APK file and drop it in the emulator anywhere and that's it it will simply install that app in the Emulator.

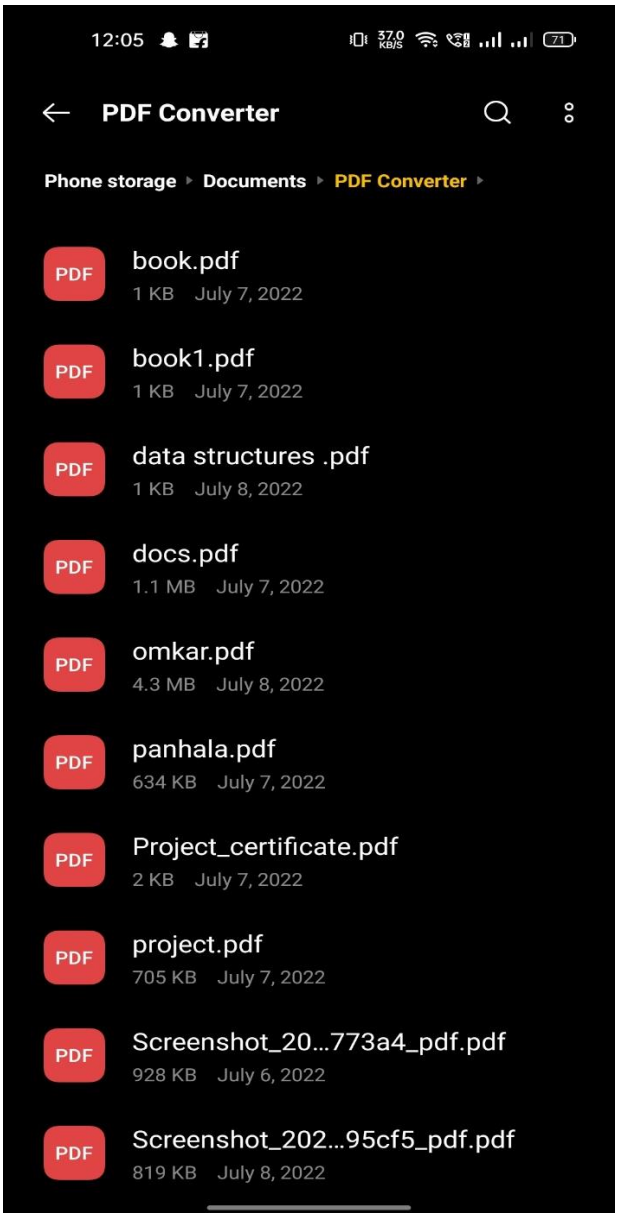
In conclusion, we have learned two methods to install an APK file in the Android Studio Emulator. So if we need to use any external third-party application in our Emulator then we can prefer the above methods to do that.

5.3 User Guideline

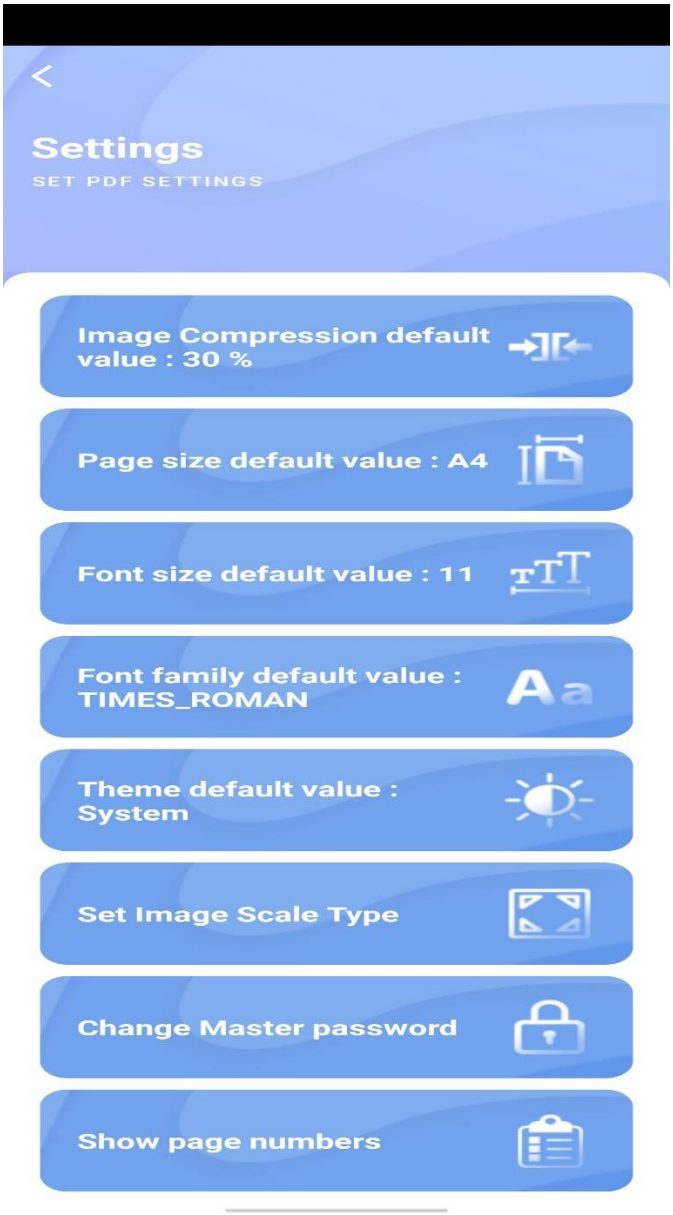
The best way to convert PDF documents to common file formats right on your Android device. Just add your images, text files, spreadsheets, and convert them to PDF formats. The simplicity and amazing conversion quality make this app the ultimate file converter for your phone.

CHAPTER 6: Reports

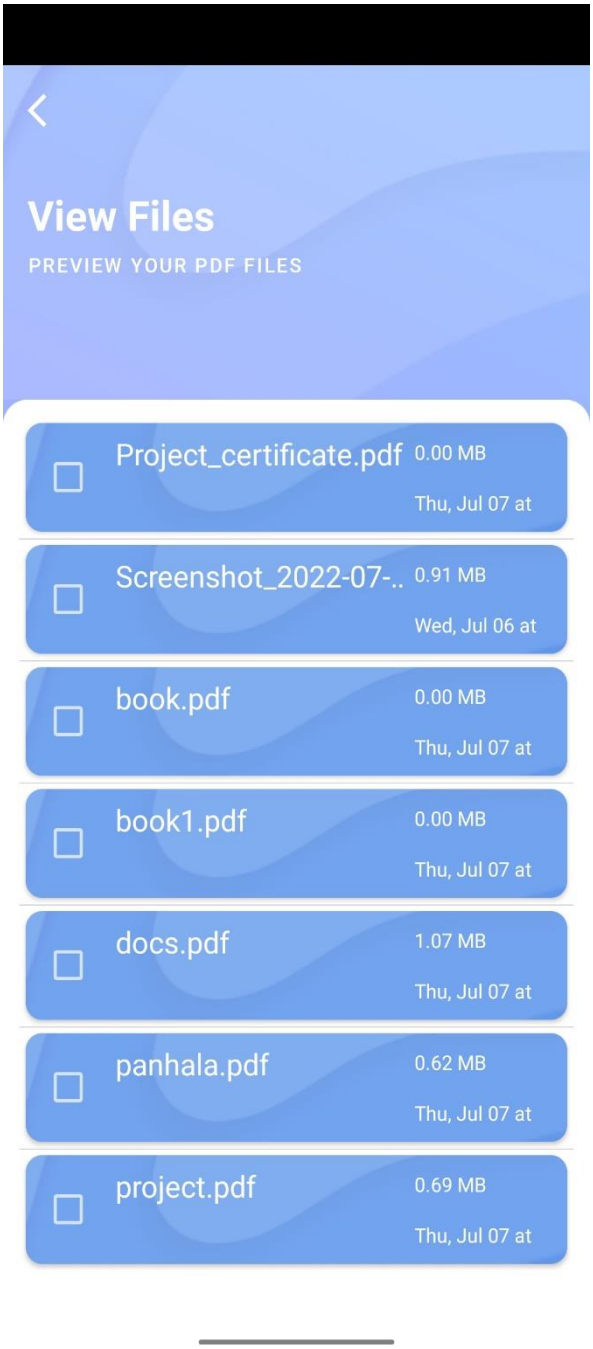
Created Pdf



Modify page



View created PDF's



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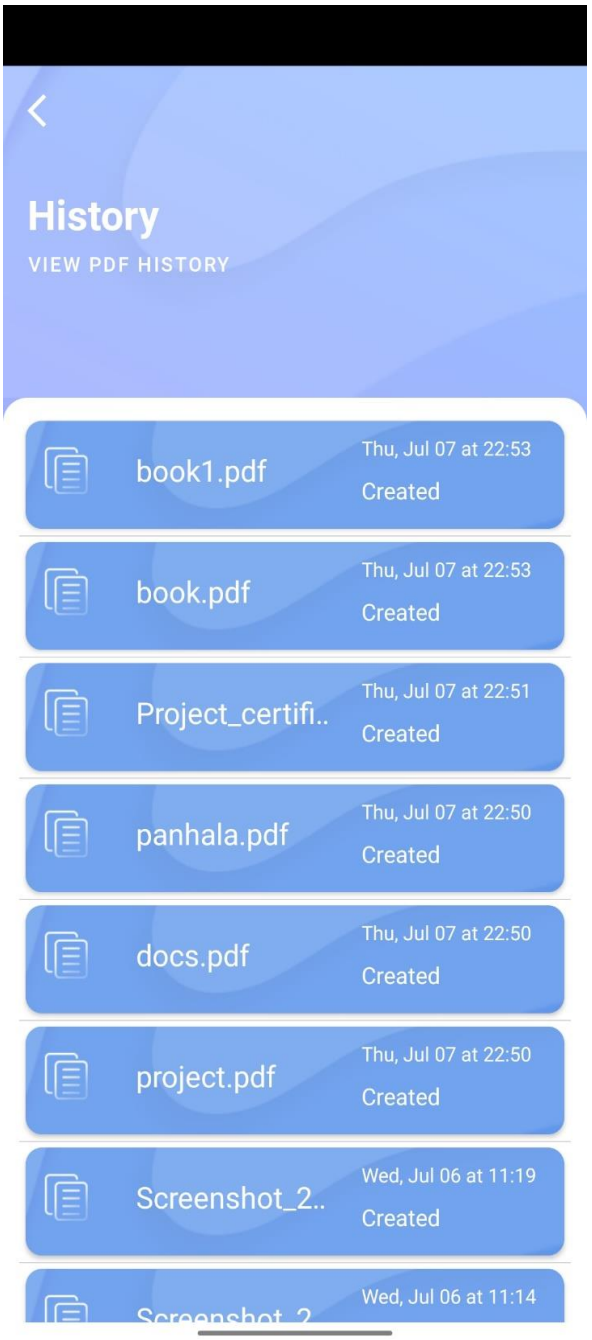
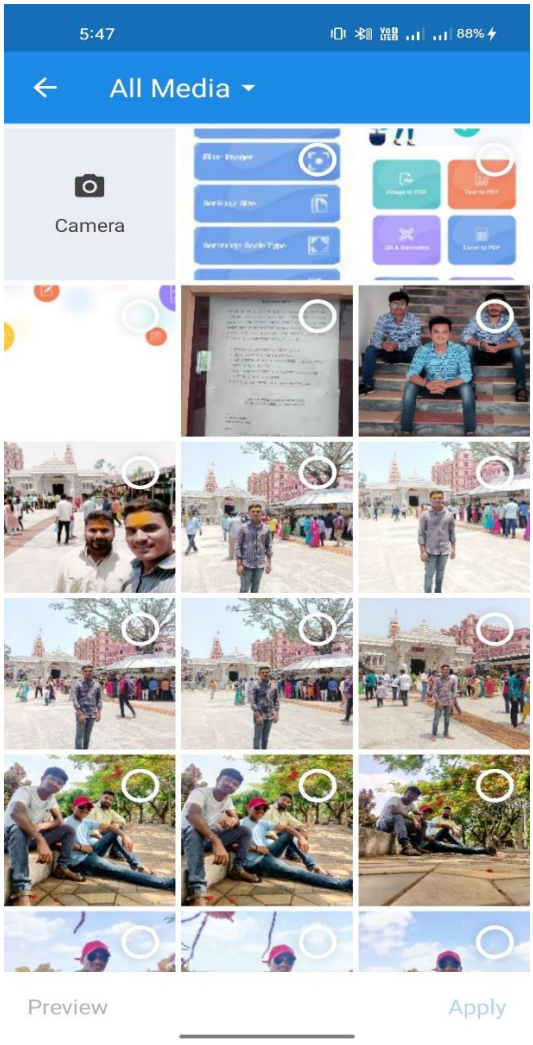
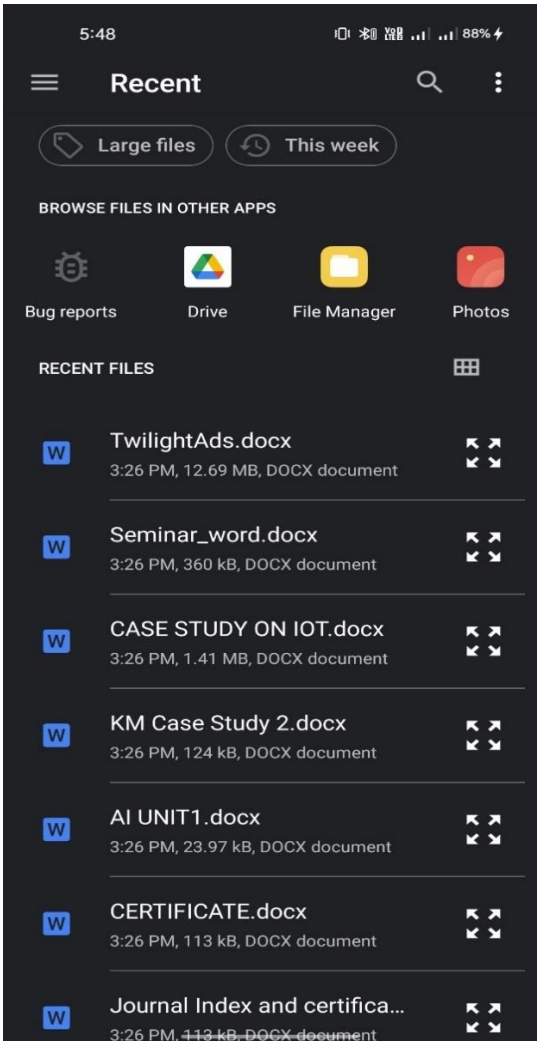


Select Images



Select word/Text files



Scan QR/Barcode

CHAPTER 7: Conclusion and Suggestion

7.1 Conclusion:

This is to conclude that the project that we under took was worked upon with a sincere effort. Most of the requirements have been fulfilled up to the mark and the requirements which have been remaining, can be completed with a short extension.

7.2 Limitation

- You need a PDF reader to preview the result.
- It cannot convert to other common formats like word to pdf, pdf to word.
- It only converts images, text files, spreadsheets, QR code to pdf
- Not able to convert files in reverse format.

7.3 Suggestion

- Vice versa conversion feature have to be add that means pdf to word or word to pdf.
- Create login and logout feature for every user.
- Have to do fast processing on images while creating pdf.
- User can click the photos and convert them into pdf from using that app.

7.4 References

Books:

1. Hello, Android (English)
2. Sams Teach Yourself Android Application Development in 24 Hours (English)
3. Android Application Development All-in-one for Dummies (English)
4. Professional Android 2 Application Development Book

Websites

1. https://www.javatpoint.com
2. https://www.geeksforgeeks.org
3. https://wwwtutorialspoint.com
4. https://stackoverflow.com