MINI PROJECT
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Build an Application for Converting Images into PDF

MID-TERM REPORT

Institute of Engineering & Technology

Submitted by-
Vaishnavi Chaurasia - (181500777)
Pratibha Sharma - (181500499)
Kapil Kumar - (181500308)

Supervised by: -
Mr. Neeraj khanna
Technical Trainer

Department of Computer Engineering & Applications

Content

Abstract

In this we build an application that is capable of scanning images and convert them into a specific document format called PDF. It allows multiple images to be compressed into a single document. These PDFs are secure and easy to carry, use, share, and upload to any platform or social sites. This application can resize images, rotate images to left/right, reorder images as users want and many more features that will be described later.

kotlin and *XML* language makes it possible to build this application. There are many languages available to build this application. Kotlin is more concise than other languages. It's easier to read and understand for developers. *Android Studio* is the platform to develop such applications. It is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains IntelliJ IDE software, and designed specifically for Android development.

Introduction

General Introduction to Topic

In this digital era, everyone wants to store their data which should consume less amount of storage as well as retrieval of data should take less time. They want their files to be in a compressed format that can be easily shared as well as uploaded. We aim to fulfill these requirements with our android application.

For example, if a student wants to send the image of pages of the same book, if he will send each page it will confuse the sender as well as the receiver and it will take much time to download each page and put it in a sequence. Through this application, users can store their images in one PDF and can share it easily within less time and in a sequenced manner.

Our application will be used for professional purposes. It will help users to secure their documents at one place.

➢ **Technology Used**
- Kotlin Language - Programming Language i.e an extension of JAVA
- XML - eXtensible Markup language used to design the layout of application

➢ **Hardware Requirements**
- Android Mobile
- Laptop
- USB cable

➢ **Software Requirements**
- Android Studio IDE

Implementation Details

Part-1 : Design User InterFace wireframes to display the basic layout of an application.

WireFrame is a static blueprint of an application layout. It displays the flow of activities in an application. It helps a developer to understand the flow of information as well as the sequence of layout.

There are many wireframe tools which help to design layout in a pictorial way. These tools contain some elements which help in designing our layout. They also have the facility to show the flow of activities through linking of screens of Android mobile.

 Some of the common Elements are:-

- Android Mobile
- Search Bar
- Buttons
- Header
- Navigation Bar
- Icons like settings icon, edit icon etc.
- List ,etc

Part-2: Implement User Interface by using Android Studio and XML

With the help of WireFrames i.e the blueprint of layout It will be easy to implement the actual User Interface of application. By using XML we can design our layout.

Part-3: Implementation of Logic of our application

By using programming language we can implement the basic logic of our application. Here we are using kotlin as our programming language. The logic depends on the features of our application.
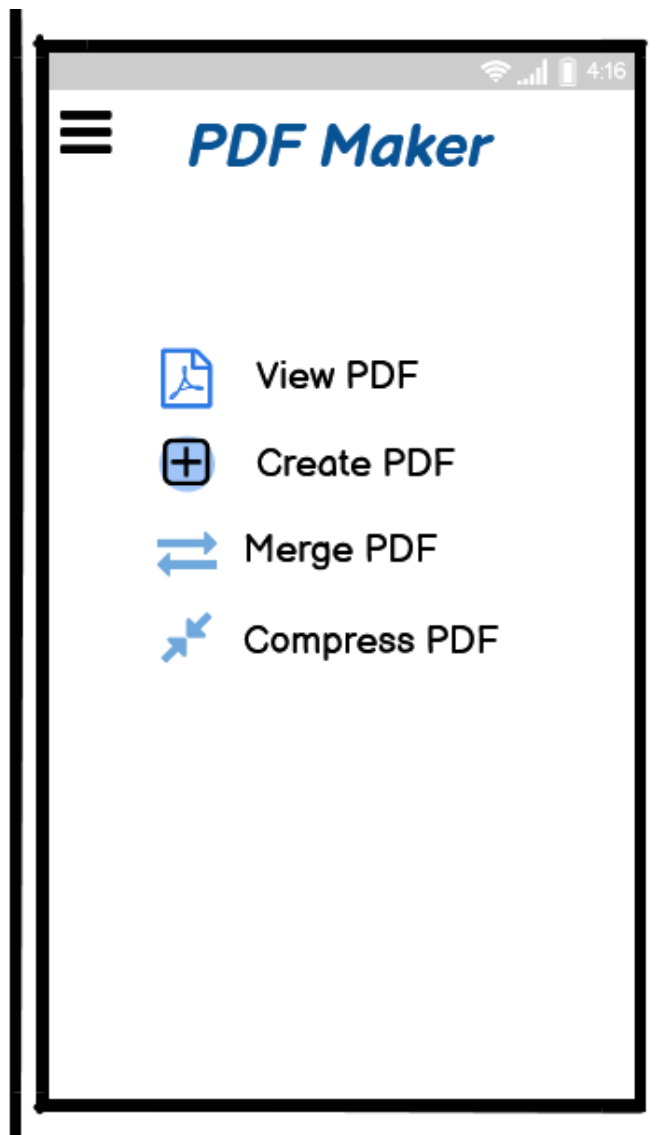
- Scanning of Images
- Converting them into PDFs
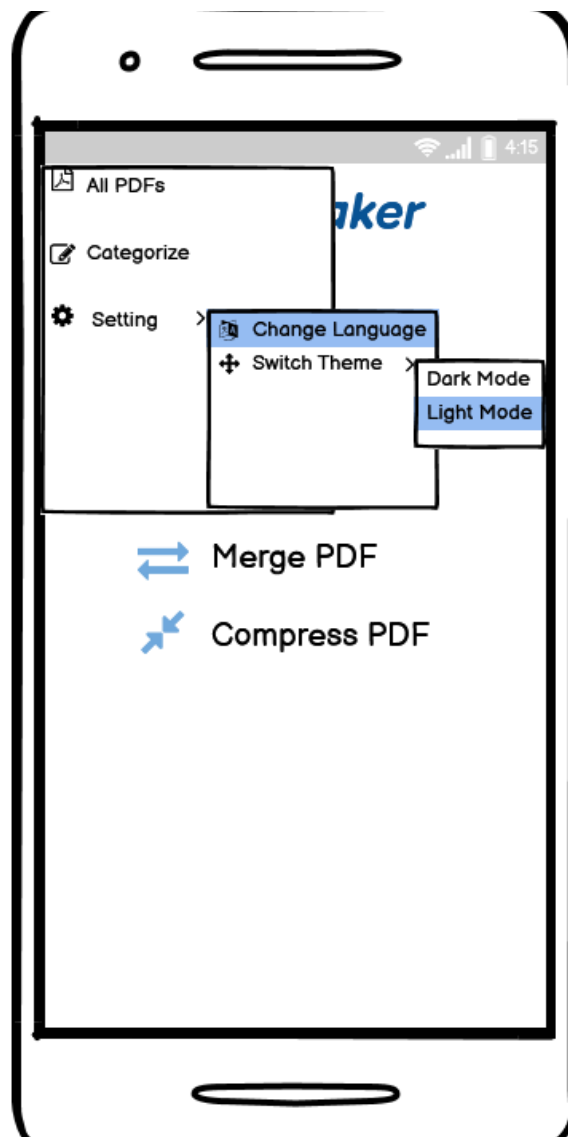- Capture an image
- Resize an image
- Reorder Image

Progress

Part-1 is completed
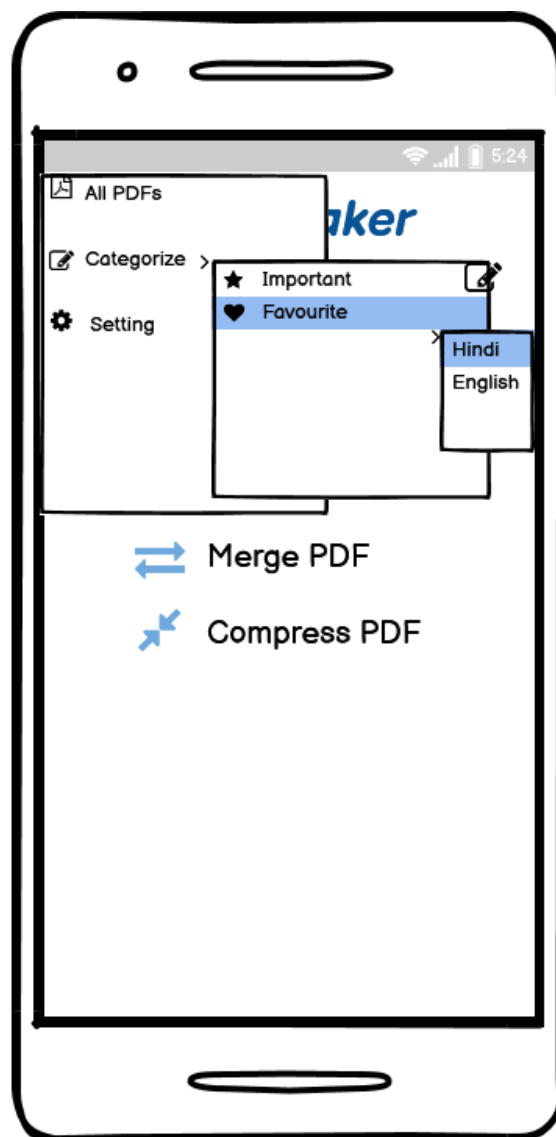
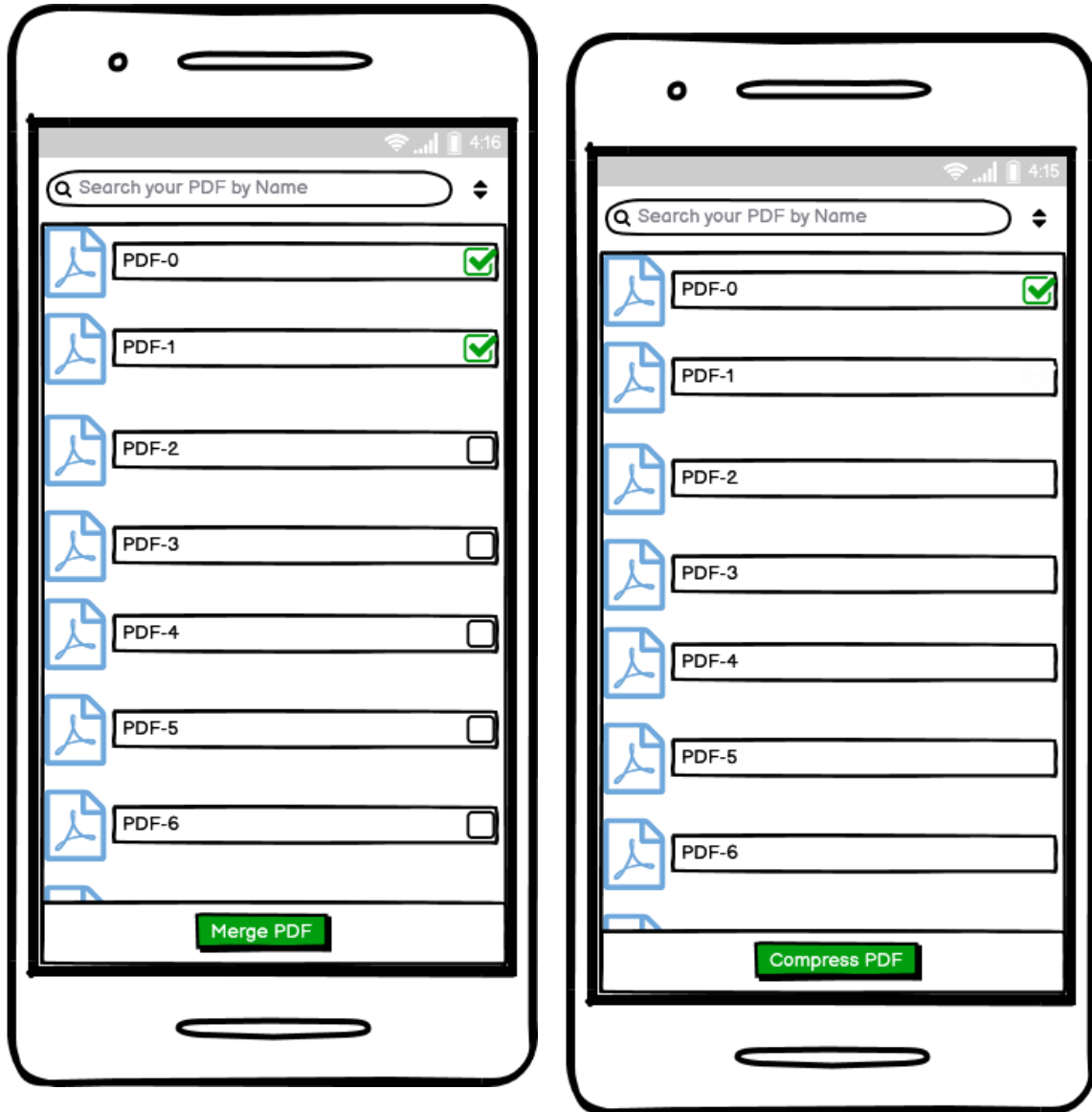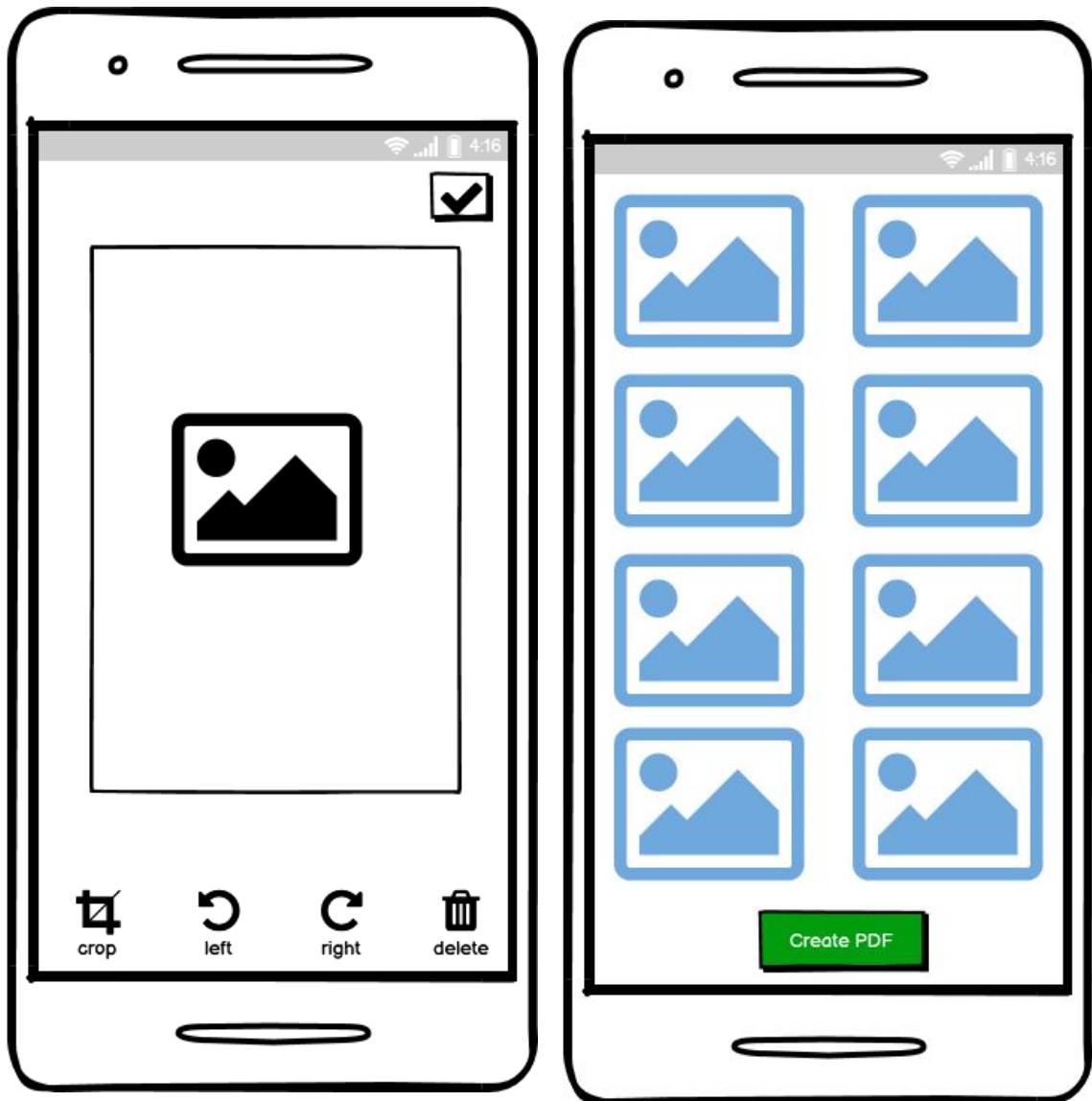WireFrames of our Application are as follows:-
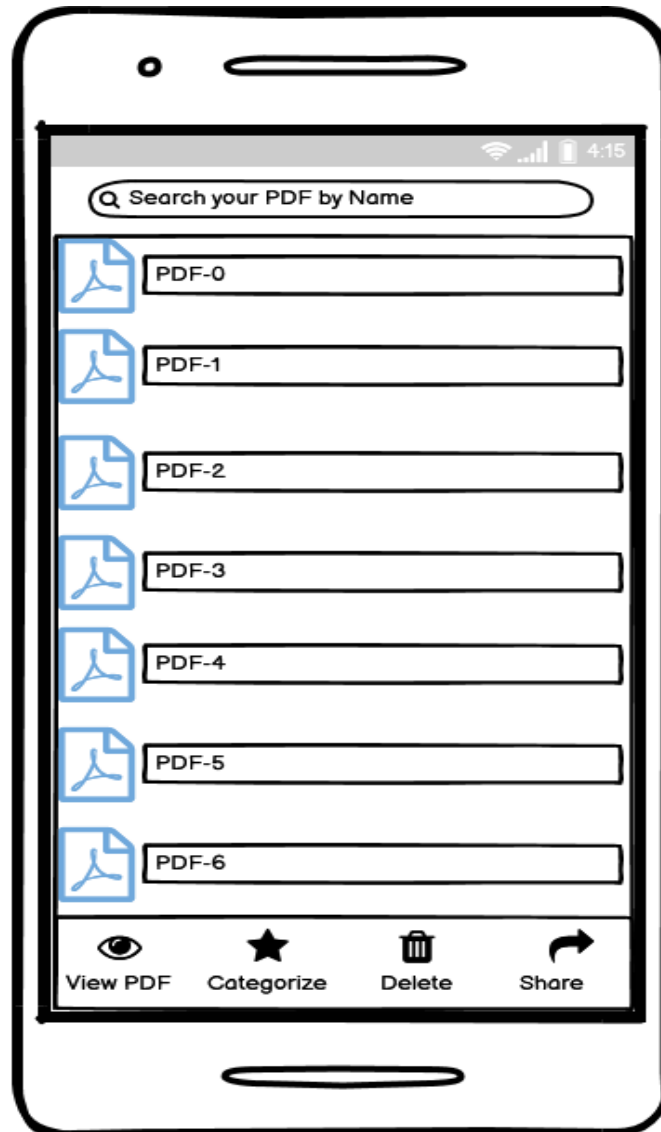
- **HomePage**

- **Setting**

- **<u>Categorize</u>**

- **Merge PDF or Compress PDF size**

- **Edit Image and Create PDF**

crop   left   right   delete

Create PDF

- **Share PDF or Delete PDF**

Search your PDF by Name

PDF-0

PDF-1

PDF-2

PDF-3

PDF-4

PDF-5

PDF-6

View PDF   Categorize   Delete   Share

References

- **Kotlin course - [Training Courses](#)**
- **Wireframe tool Balsamiq - [Wireframes to Go](#)**