

Cardzo – Document Tools App

Document Tools & EBookReader

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Introduction

The Cardzo app will give the user pretty much every features regarding managing documents like converting, creating, viewing documents along with an epub reader to make it easy to read books from our smartphone device.

Project Objective

To create an interactive android app which provides :

- A Document Scanner to create pdfs from images
- Document tools like Convertor, Compressor, etc..
- Ebook Reader

What We Are Using?

- **Front-end**

- Flutter
 - Mobile UI Development Framework by Google
 - Primary language : Dart

- **Back-end**

- Python Django
 - Web Development Framework
 - Primary Language : Python

- **Model**

- Incremental Model

Incremental Model

- Requirements divided into multiple standalone modules
- Every subsequent release of the module adds function to the previous release
- Errors are easy to be recognized.
- Simple to manage risk because it handled during its iteration
- Used in a project has a lengthy development schedule.

Flutter

- Flutter is an open source Google mobile UI framework
- Flutter is free
- Cross – platform development
- Better looking UI
- Uses Dart as Primary language

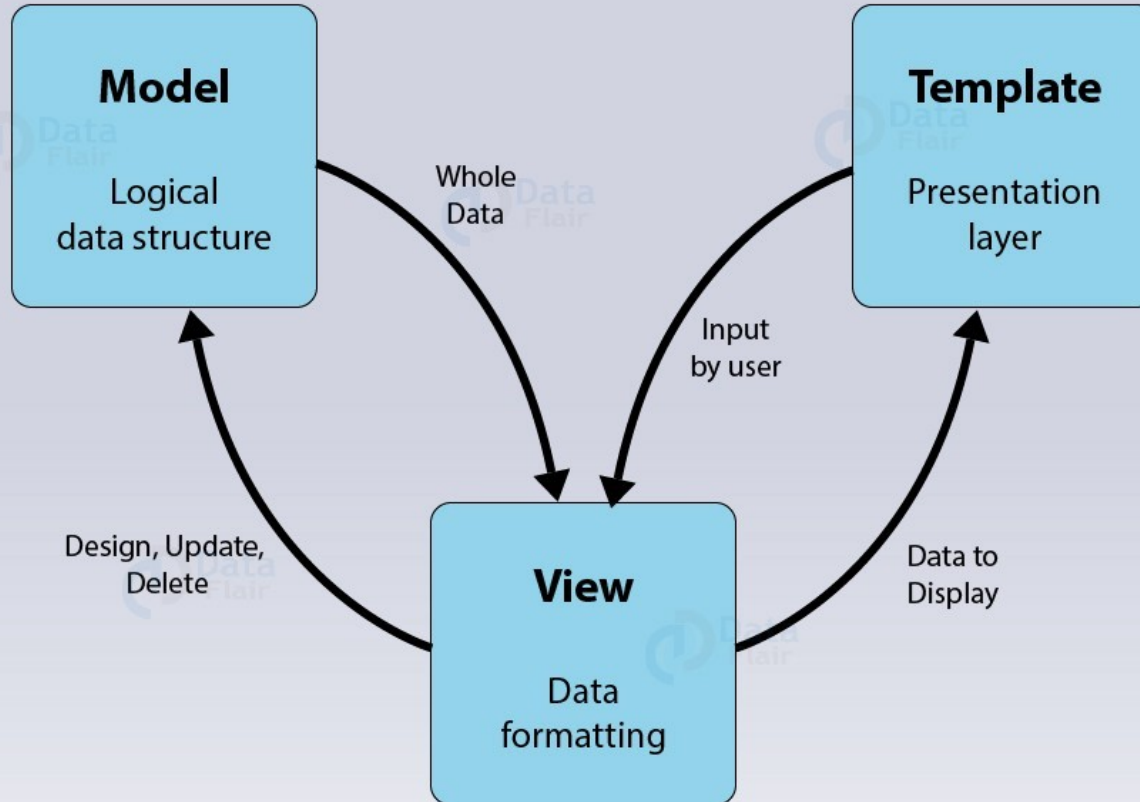
Dart

- Developed by Google
- C style syntax
- Used for developing apps for mobile,web, etc..
- Can be compiled to native code or javascript

Python Django

- Django is a free and open-source web framework
- Based on Python language
- Uses Model-Template-View architecture
- Based on DRY (Don't Repeat Yourself) concept

Model-Template-View



Python

- Open Source and Community Development
- Extensive Support Libraries
- Learning Ease and Support Available

DocScanner

Functionalities :

- Creating a document from given image
- Displaying PDF Documents
- Allow User to share the created documents

DocTools

Functionalities :

- Compress Documents
- Convert Documents to Another Format
- PDF Splitter and Joiner

EPUB

- EPUB is an e-book file format
- Uses .epub extension
- EPUB is supported by many e-readers
- Archive file consisting of XHTML files carrying the content, along with images and other supporting files.

EReader

Functionalities :

- Display Epub formatted Ebooks
- Provides Night mode
- Other functions like adjusting scroll and font size

Translator Module

Functionalities :

- Getting Text from Typed Images using OCR
- Translation of the text to other languages

Software Requirements

- **Platform :**
 - Android
- **Operating System :**
 - Android – Version 6.0 above (API 23 above)
- **Hardware :**
 - Smartphone should have camera
 - at least 2GB RAM

Software Requirements

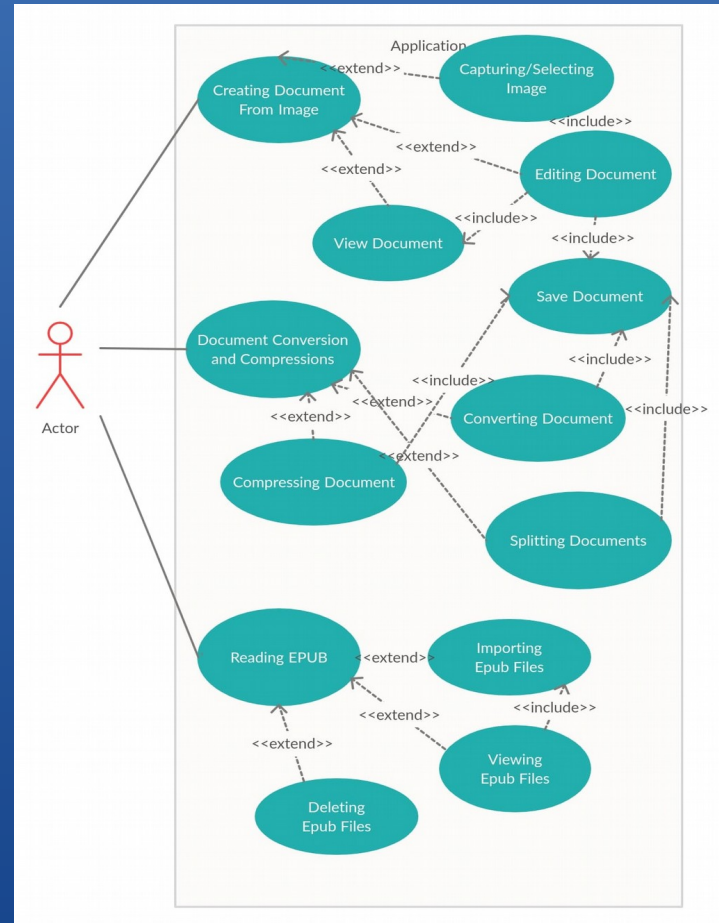
Developer Side

- Android SDK 27 (Android 8.1)
- Android Studio / VS Code
- Flutter SDK

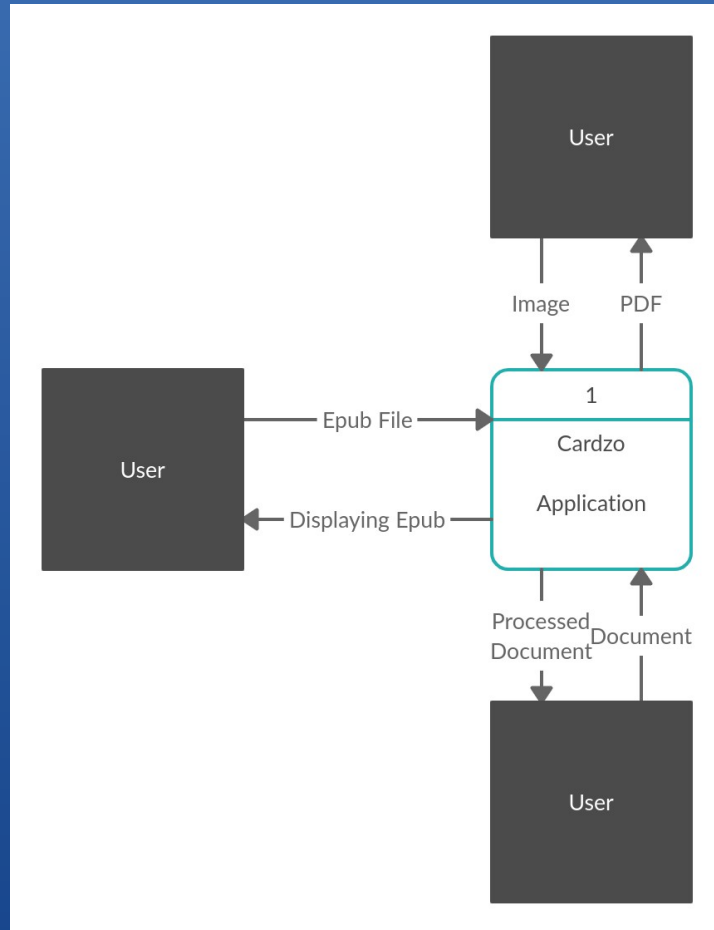
Hardware Permissions Needed

- Camera Access
- Network Access

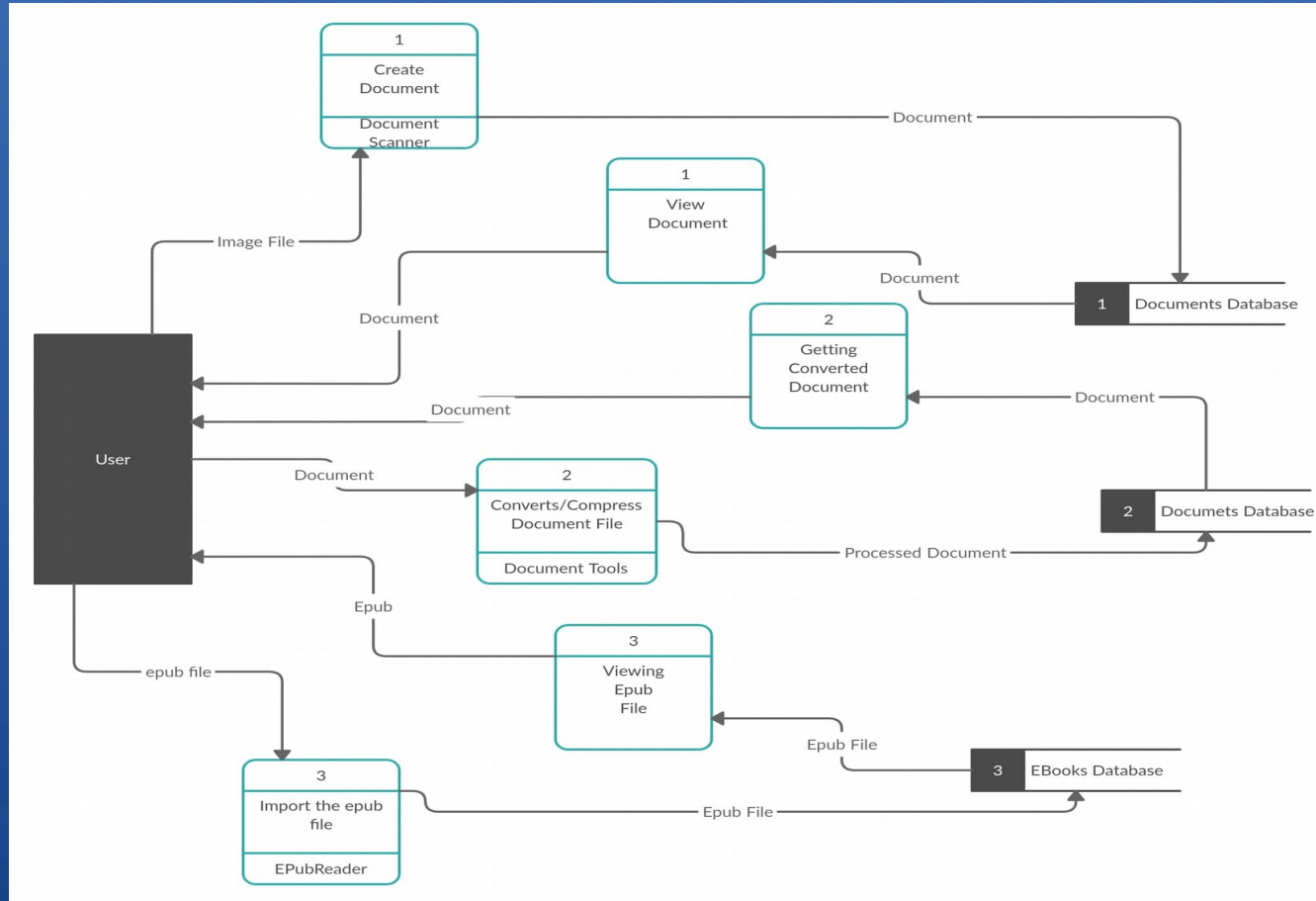
UseCase Diagram



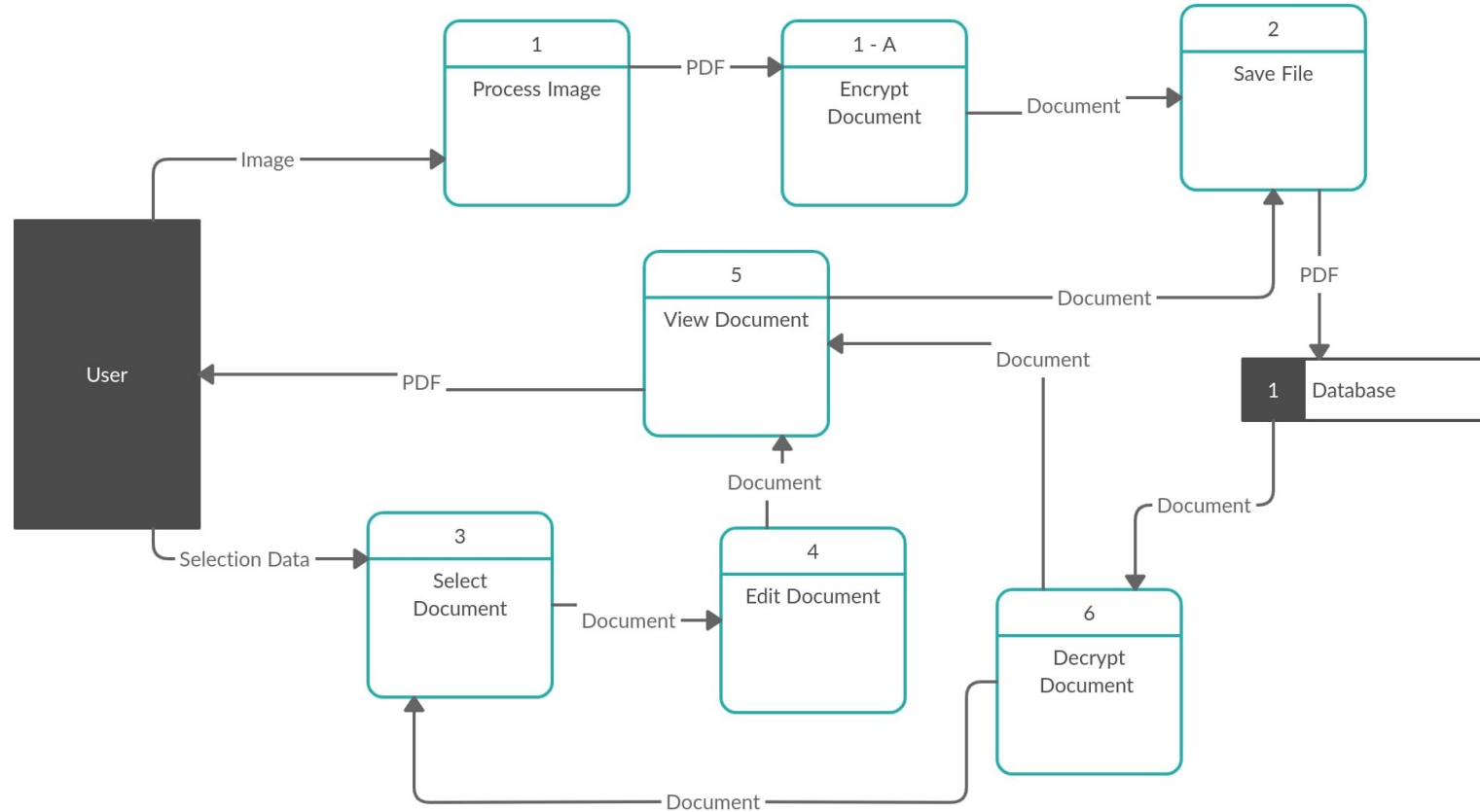
Context Diagram



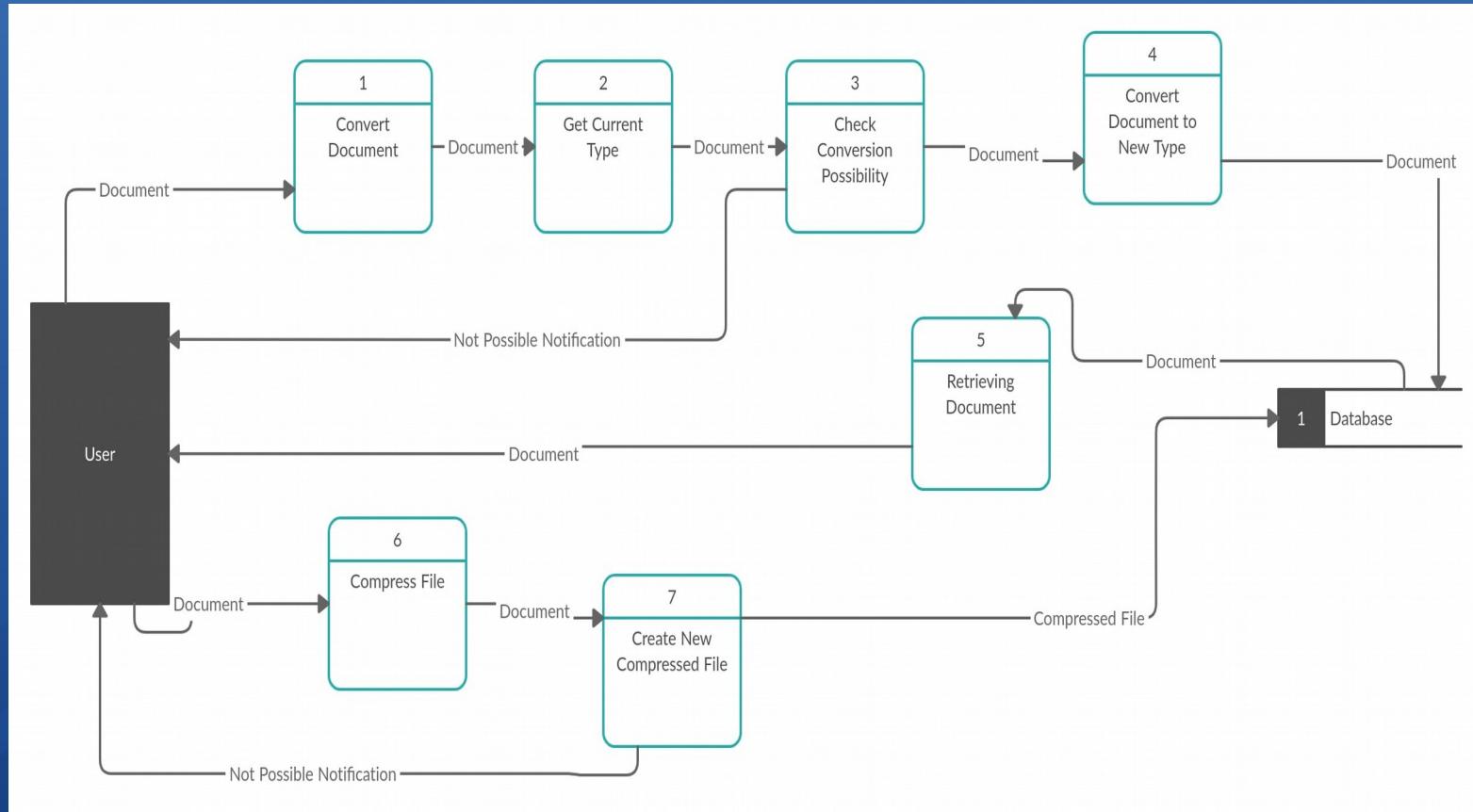
Level 1 Diagram



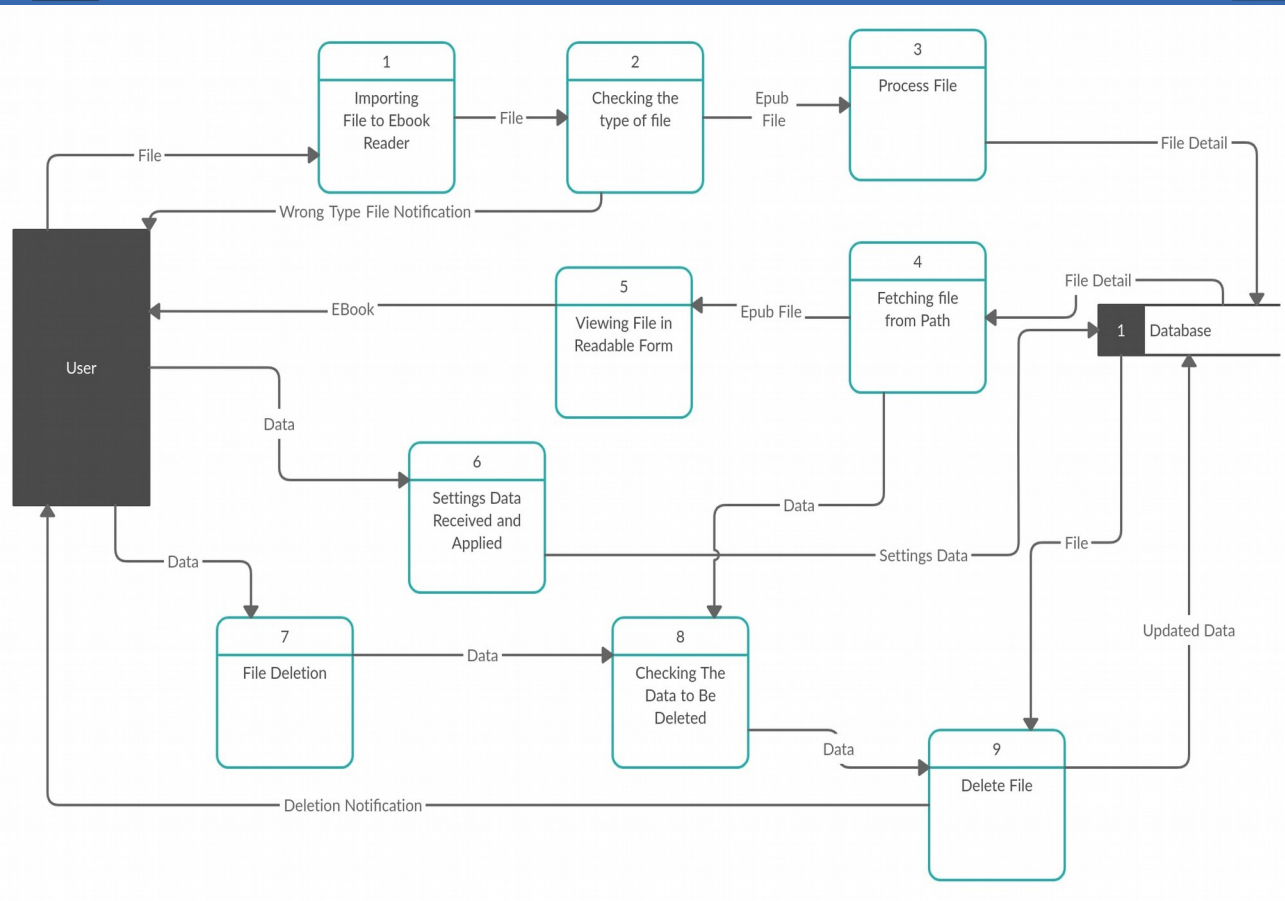
DocScanner



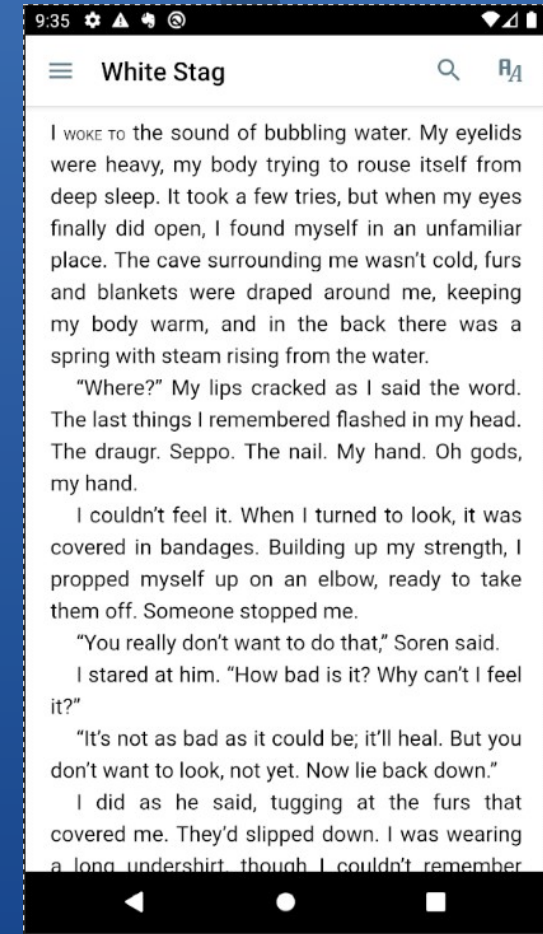
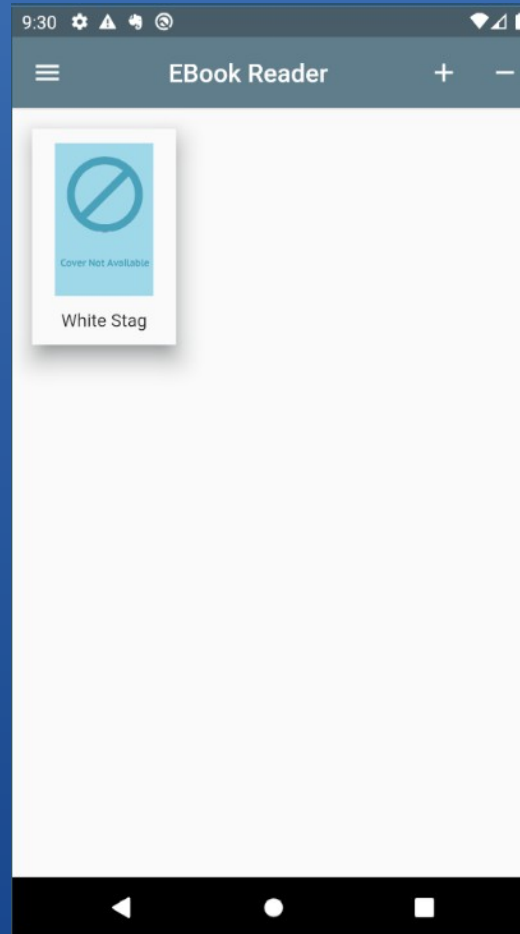
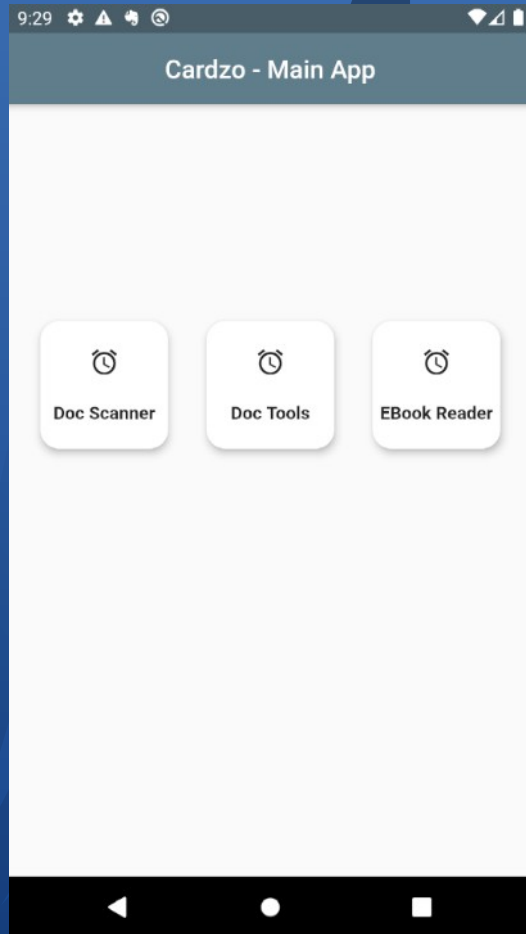
DocTools



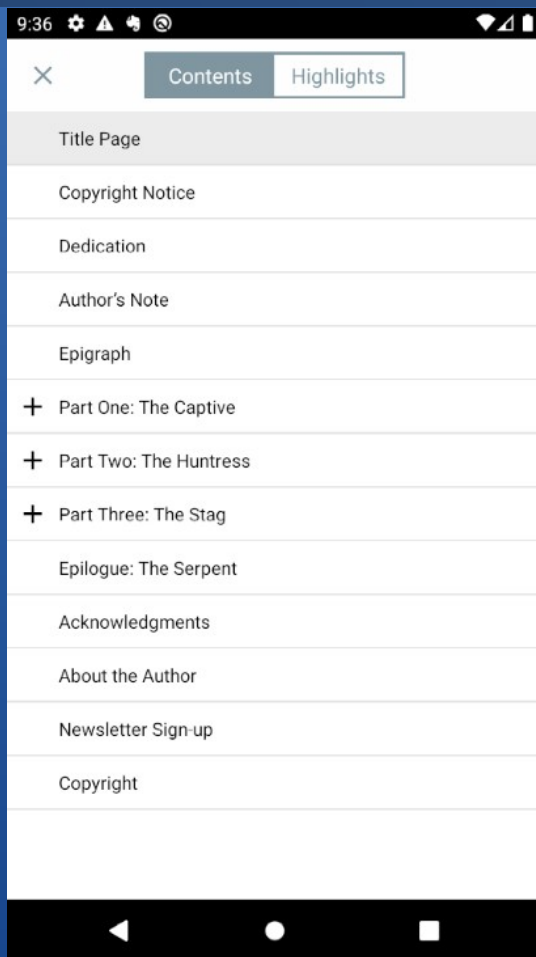
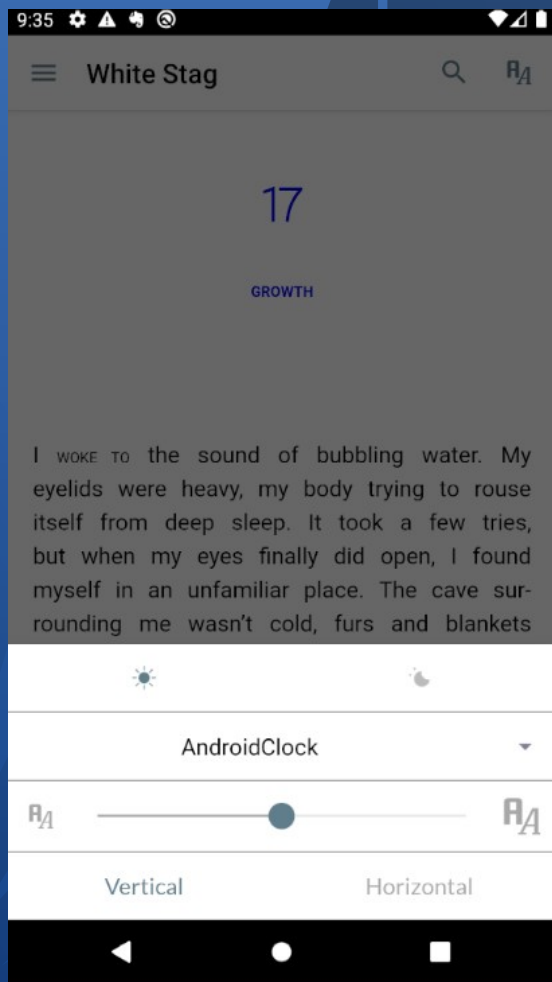
EReader



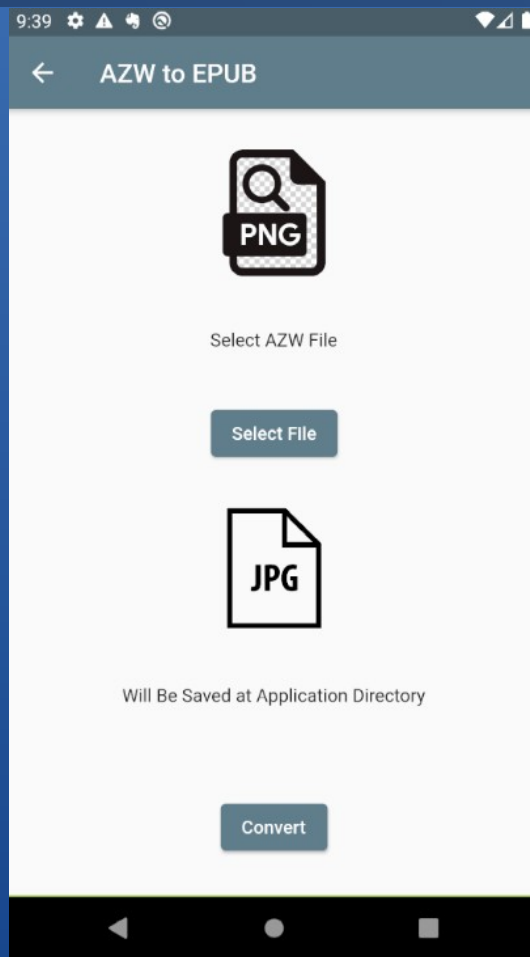
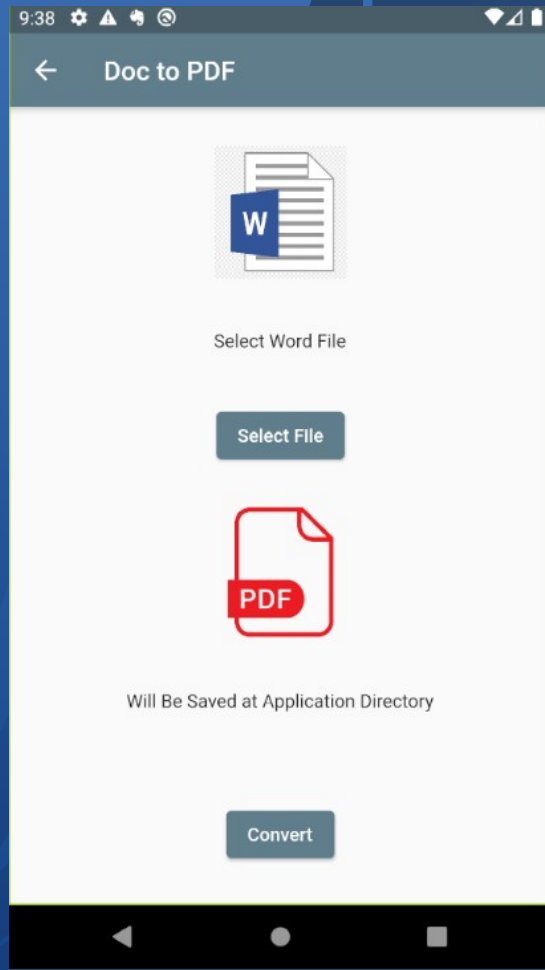
GUI Models



Continue..



Continue..



Future Enhancements

- Changing DocTools Modules API to our own API
- Completing Missing Features in each module
- Adding Translator Module
- Add object detection feature using Deep Learning



THANK YOU

