### **Cardzo – Document Tools App**

Document Tools & EBookReader

**Team** 

Sidharth CS
Praveen Kumar
Jyothis KS
Krishnendu Suresh
Jabirhusain KP

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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

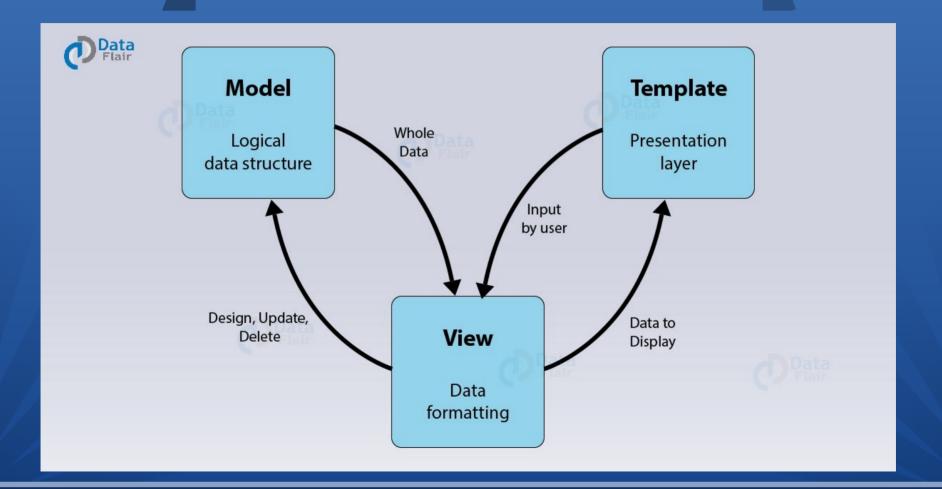
### Dart

- 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**

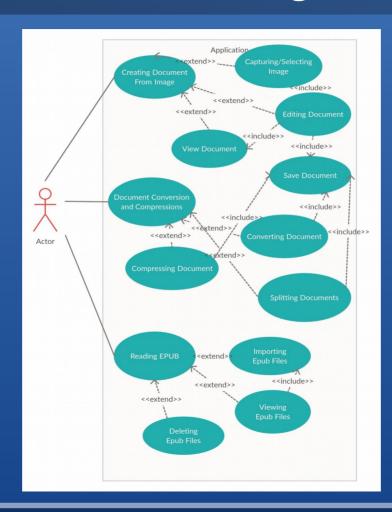
Developer Side

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

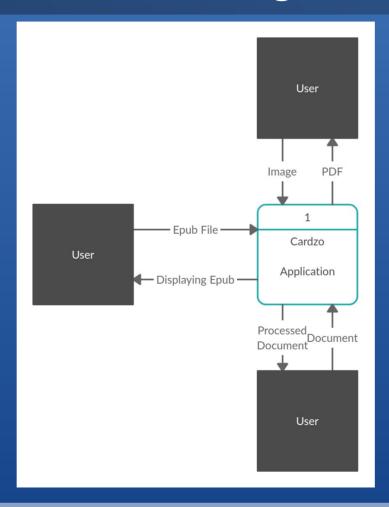
Hardware Permissions Needed

- Camera Access
- Network Access

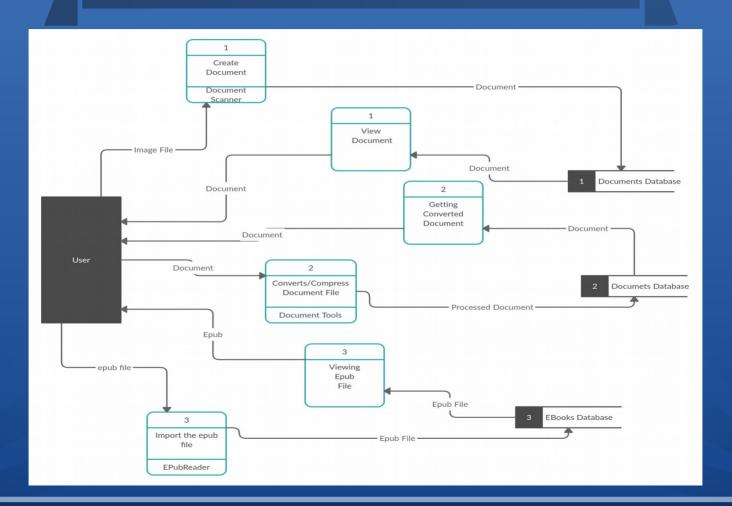
# **UseCase Diagram**



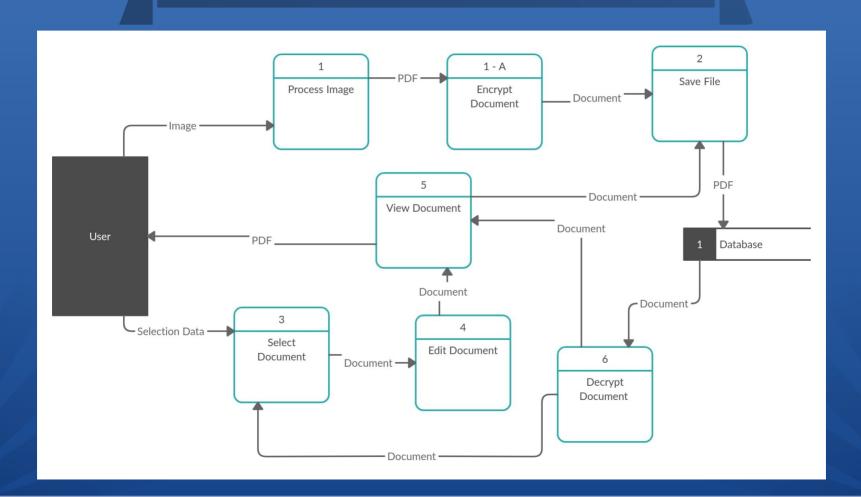
# **Context Diagram**



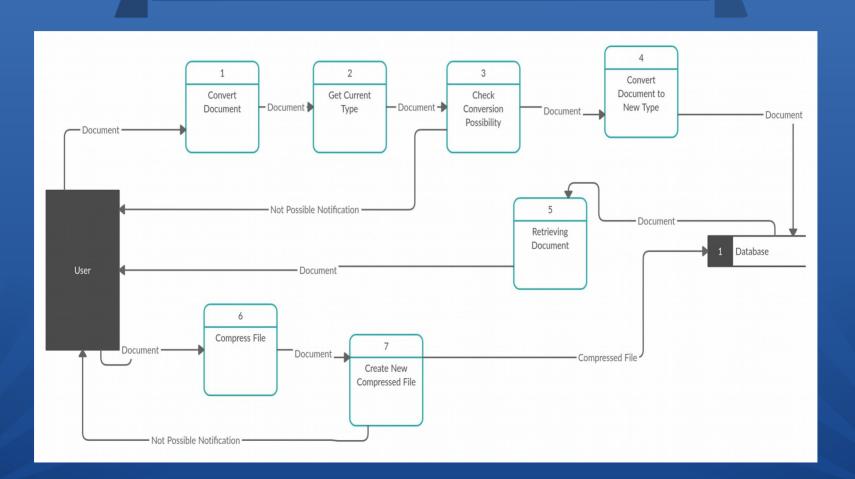
# **Level 1 Diagram**



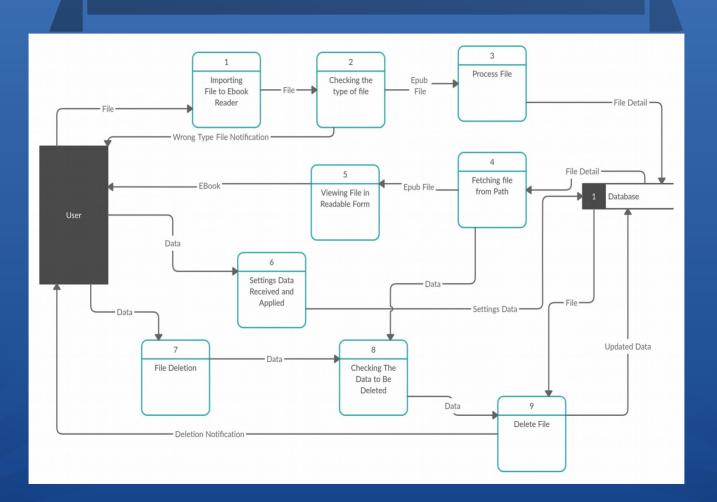
## DocScanner



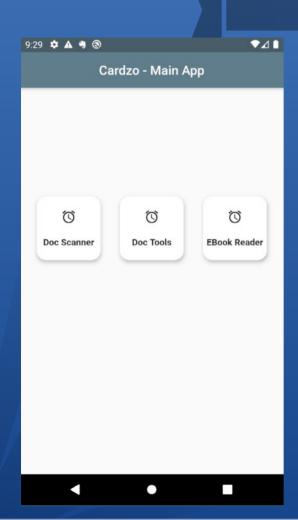
## DocTools



## **EReader**



### **GUI Models**







I woke to the sound of bubbling water. My eyelids were heavy, my body trying to rouse itself from deep sleep. It took a few tries, but when my eyes finally did open, I found myself in an unfamiliar place. The cave surrounding me wasn't cold, furs and blankets were draped around me, keeping my body warm, and in the back there was a spring with steam rising from the water.

"Where?" My lips cracked as I said the word. The last things I remembered flashed in my head. The draugr. Seppo. The nail. My hand. Oh gods, my hand.

I couldn't feel it. When I turned to look, it was covered in bandages. Building up my strength, I propped myself up on an elbow, ready to take them off. Someone stopped me.

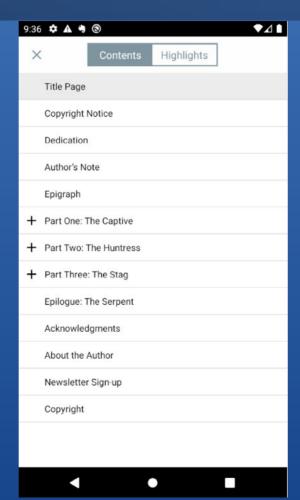
"You really don't want to do that," Soren said. I stared at him. "How bad is it? Why can't I feel it?"

"It's not as bad as it could be; it'll heal. But you don't want to look, not yet. Now lie back down."

I did as he said, tugging at the furs that covered me. They'd slipped down. I was wearing a long undershirt, though I couldn't remember

## 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