

Application Concept

A brief overview of the app:

CamScanner mini is a free offline application designed to quickly scan documents and export them in .pdf and .jpeg formats.

The motive behind the app:

With the security concerns rising comes an imperative call to build a user-controlled offline document scanner application tailored to support all necessary and essential features. So, we don't collect any information from the user, and we maintain no servers.

How the app responds:

- The user is provided with a **camera capture** feature within the app and also an **import from gallery** feature that helps us import images into the application from Gallery, Google Photos, Google Drive, etc.
- **Auto Crop** feature is then applied to the images which try to detect the boundary of the document. There is also a **manual crop** feature where the user can oneself adjust the boundaries detected.
- **Edit** feature can be applied to each image which rotates, applies filters.
- The user can then select among the **filters** like Black&White I, Black&White II, Lighten, Gray on their choice.
- On the document-specific screen of the application, the user has the features like **PDF Preview** and **Ordering** the images.
- On the home screen of the application, there are features to **search** and **sort** the documents based on their names, creation and modified times.
- **Share** features specific to images, documents as pdfs, jpegs, long images are also provided.

Technical details:

- **Image Processing**
 - OpenCV library, which is the best open-source library, is used for image processing techniques like auto-detecting documents, applying various filters, enhancing the image qualities.

Future plans:

- Image compression features on the high-quality images can be applied to reduce the sizes of the images, make the application's performance better and also exporting features more scalable.
- An application-specific folder to store the downloaded images, pdfs.