



BAHIR DAR UNIVERSITY

Bahir Dar Institute of Technology Faculty of Computing

Mobile Application Development (SEng4061)

Group Project

Quick Scan & Organize

Mobile Document Information Management System

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1. Project Overview

Quick Scan & Organize is a cross-platform mobile application designed to help users efficiently digitize, organize, and manage their documents using their smartphones. Built with Flutter, the app enables users to scan paper documents, receipts, notes, contracts, or whiteboard sketches using the device camera, automatically enhance and crop images, convert scans to PDF, and store them in organized folders with custom tags. It provides fast access to documents through advanced search and filtering features, secure storage, and seamless sharing options.

The app aims to improve productivity, reduce paper clutter, and make information management portable and simple for students, professionals, and businesses.

2. Purpose and Objectives

- **Digitization:** Allow users to convert physical documents into digital format quickly and easily.
- **Organization:** Make it straightforward to sort, categorize, and retrieve documents using folders and tags.
- **Accessibility:** Enable users to access their documents anytime, anywhere, across devices.
- **Security:** Offer features to keep sensitive documents safe (encryption, app lock).
- **Productivity:** Save time searching for and sharing documents, streamlining personal and professional workflows.

3. Key Features

3.1 User Authentication

- Secure login/signup using email or social accounts.
- Protect personal documents with app lock (PIN, fingerprint, Face ID).

3.2 Document Scanning

- Capture documents using the phone camera.
- Automatic edge detection and cropping.
- Enhance images with filters (brightness, contrast, clarity).
- Multi-page scan: Combine multiple pages into a single document.

3.3 PDF Generation & Editing

- Convert scanned images to PDF files.
- Merge, split, and reorder pages within a PDF.
- Annotate PDFs (add highlights, notes).

3.4 Organization and Management

- Create folders and subfolders for logical document grouping.
- Add custom tags to documents for better categorization.
- Move, copy, rename, and delete documents and folders.
- Mark important documents as favorites for quick access.

3.5 Search & Retrieval

- Search documents by title, tag, folder, or date.
- Filter results by file type, favorites, or date range.
- OCR (Optical Character Recognition): Extract text from images to make the content searchable.

3.6 Sharing & Exporting

- Share documents as images or PDFs via email, messaging apps, or cloud storage.
- Export to external storage or directly to cloud services.
- Set permissions for shared documents (view-only or editable).

3.7 Cloud Backup & Sync (Advanced)

- Sync documents with cloud platforms like Google Drive, Dropbox, or Firebase.
- Allow users to access documents from multiple devices.

3.8 Reminders & Notifications

- Set reminders for document actions (contract renewal, review dates).
- Push notifications for scan completion, scheduled tasks, and backup status.

3.9 Security & Privacy

- Local encryption for sensitive documents.
- Privacy controls for shared documents.
- App lock features for additional protection.

3.10 Usage Analytics

- Track the number of scans, storage usage, and most accessed documents.
- Generate weekly or monthly reports for user activity.

3.11 Collaboration (Optional/Advanced)

- Share folders with other users for collaborative work.
- Add comments/discussions to shared documents.

4. Target Users

- ❖ Students: Organize lecture notes, assignments, and certificates.
- ❖ Professionals: Manage contracts, receipts, work documents.
- ❖ Small Business Owners: Store invoices, receipts, business records.
- ❖ Anyone: Looking to reduce paper clutter and improve access to personal documents.

5. Platforms

- Android

See the wireframe sketches for the main screens of the app here: [View App Wireframe](#)

