

## Client-Side Documentation Sprint 2

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### 1. Project Overview

**Project Description:** "docflow" is a Windows application designed for document management and processing. The application allows users to log in, select, scan, and review documents, as well as automatically detect them in a specified directory.

### 2. Installation and Launch

#### System Requirements:

- Operating System: Windows 10 or newer.
- .NET SDK, version 5 or higher.

#### Installation:

- Download the source code from the GitHub repository.
- Open the solution in Visual Studio.
- Build and run the application through Visual Studio.

### 3. Application Architecture

#### Application Components:

- User Login: User authentication page.
- Document Scanning: Functionality for scanning documents.
- Folder Monitoring: Automatically detects new documents in the designated folder.
- Local Storage: Locally stores detected documents.
- OCR Services: Integrates with OCR services for text extraction.

### 4. Detailed Component Descriptions

#### User Login

- Function: Allows users to enter their username.
- Technology: WinUI, C#.

#### Document Scanning

- Function: Scans documents using a camera or from a directory.
- Technology: OpenCvSharp for image processing.

#### Folder Monitoring

- Function: Monitors a specific folder for new documents.
- Technology: FileSystemWatcher for automatic detection.

## 5. User Guide

### Logging In:

- Launch the application.
- Enter your username.
- Press "Login".

### Adding Documents:

- Place documents in the predefined folder or scan them using a camera.

## 6. API Documentation

### Endpoints:

- `/receive-document`: Receives a document on the server.
- `/document-types`: Fetches document types.

## 7. Security Practices

### Description of Security Measures:

- User authentication.
- Secure handling of documents.

## 8. Error Handling

### Common Questions and Problems:

- What to do if the camera fails to open.
- How to respond to errors in document detection.

## 9. Conclusion

### Maintenance and Support:

- Regular updates of the application.
- Technical support available via email.

### Appendices

- **Diagrams:** Component and data flow diagrams.
- **Code Examples:** Code snippets that illustrate key functionalities.