Smart Document Cleaning & Modification System

A no-code web application for legal document correction, designed for Xerox and document service centres.

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Domain: Document Automation | OCR | Web Application

Challenges in Current Xerox Shop Workflows

Legal Document Imperfections

- Overwriting & Strike-throughs
- Smudges in printed text
- Degraded document quality

Staff Burden

- Retyping entire documents
- High risk of errors (typing & formatting)
- Inefficient use of time

OCR Limitations

- Extracts incorrect text
- Allows unrestricted editing
- Adds to correction workload

Smart Document Cleaning & Modification System: Our Solution

No-Code Web Application

Accessible, user-friendly platform for efficient document correction.

Intelligent Text Extraction

Leverages OCR to accurately extract printed text.

Controlled Editing

Allows corrections only where truly needed, preventing accidental changes.

Clean, Professional Output

Generates pristine, ready-to-print legal documents.

Target Users & Key Use Cases

Primary Users

- Xerox Shop Staff
- Document Service Centres
- Legal Document Assistants

Diverse Use Cases

- Bond Papers
- Land & Property Documents
- Legal Affidavits
- Government Forms

Minimal Typing Effort

Faster Processing

Reduced Human Errors
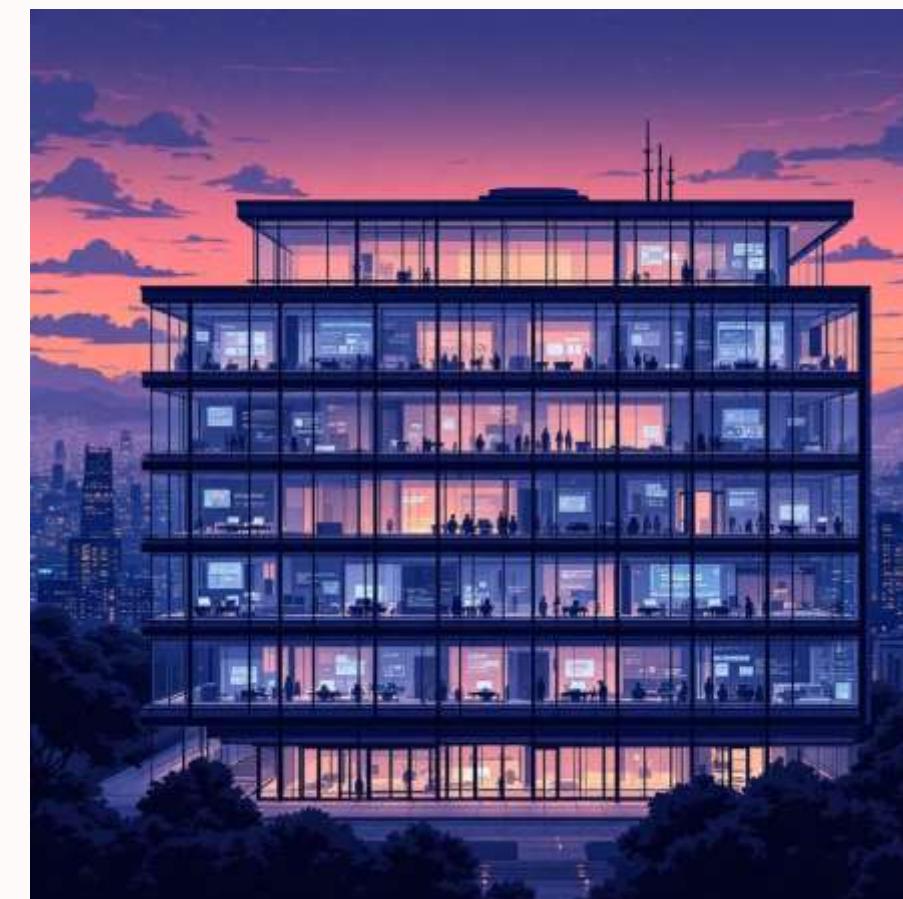
Market Research & Strategic Scope

Significant Market Need
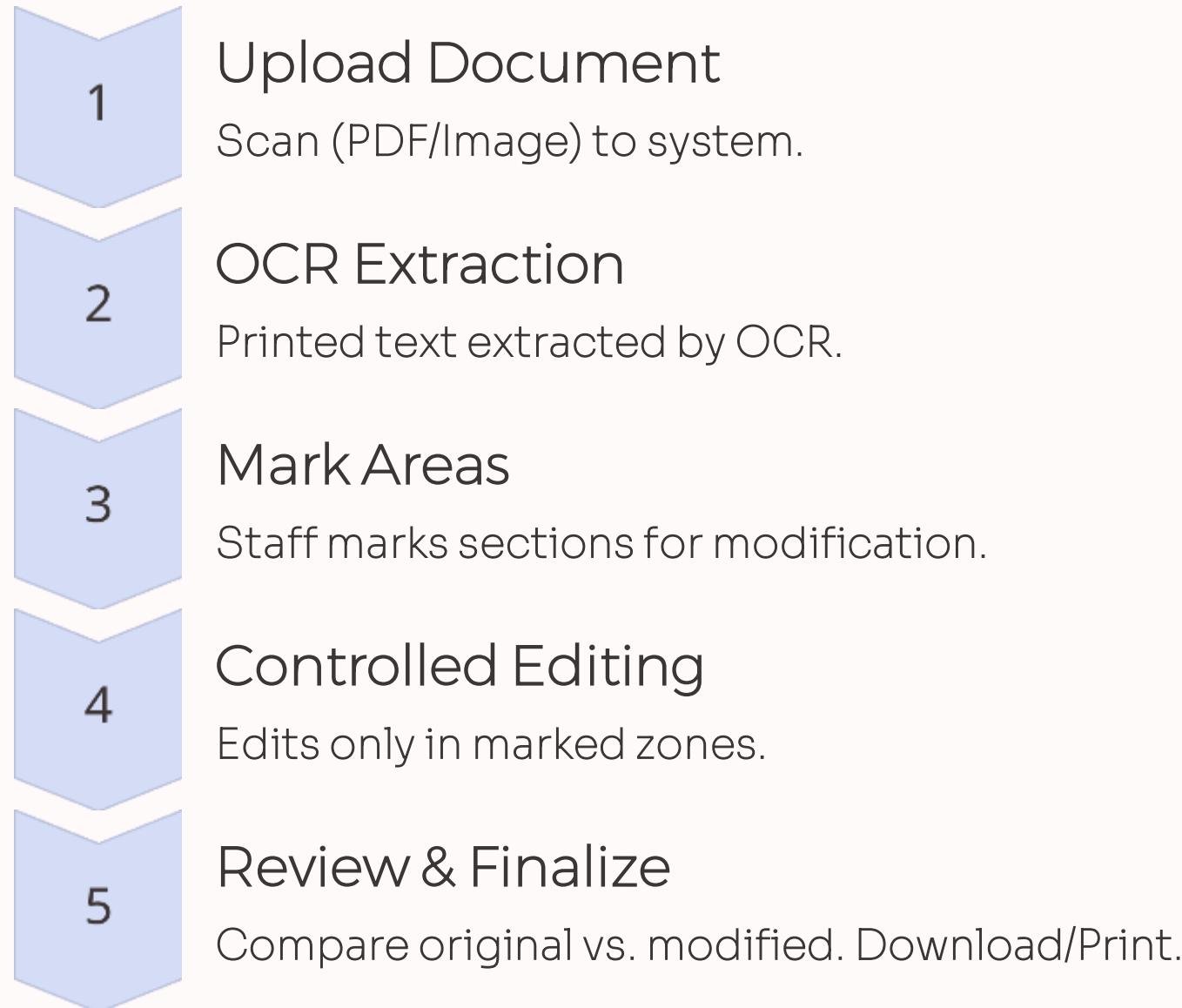
Thousands of Xerox shops process legal documents daily. Manual correction is prevalent, with limited affordable tools for small businesses.

Initially focused on small & medium document service providers within the legal document digitization market.

- Banks & Financial Institutions
- Law Firms & Corporate Legal Departments
- Government Offices & Public Sector

System Architecture & Workflow

1 Upload Document
Scan (PDF/Image) to system.

2 OCR Extraction
Printed text extracted by OCR.

3 Mark Areas
Staff marks sections for modification.

4 Controlled Editing
Edits only in marked zones.

5 Review & Finalize
Compare original vs. modified. Download/Print.

Key Design Focus: Simplicity, Accuracy, Speed

Core Features: Precision & Control

Document Upload & Preview

Seamless file ingestion with instant visual feedback.

OCR Text Extraction

Accurate conversion of printed text to editable format.

Manual Correction Zones

Empowers users to define specific editing areas.

Controlled Editing System

Ensures integrity by restricting changes to defined zones.

Side-by-Side Review

Easy comparison of original and modified versions.

PDF Generation & Printing

Final output in professional, shareable formats.

Special Highlight: Prevents editing of untouched legal content, ensuring legal compliance and accuracy.

Technologies Powering the Solution

Frontend

- No-code Platform (Bubble/Glide)
- HTML, CSS (UI Styling)
- PDF/Image Preview Tools

Backend

- OCR API (Tesseract/Google Vision)
- Cloud Storage (AWS/Firebase)
- Version Control

Security Measures

- Role-based Access
- Secure File Storage
- Data Encryption

Advantages & Impact: Driving Efficiency

Business Advantages

1. **Reduced Retyping Effort**

   By up to 70%, saving significant time.

2. **Improved Processing Speed**

   Faster turnaround for urgent documents.

3. **Minimized Legal Document Errors**

   Enhances accuracy and compliance.

Operational Impact

1. **Decreased Staff Workload**

   Frees up staff for other critical tasks.

2. **Higher Customer Satisfaction**

   Delivers quick, accurate, and professional service.

3. **Professional Document Output**

   Consistent, high-quality final documents.

Future Enhancements & Conclusion

Future Enhancements

- AI-based Strike-through Detection
- Handwriting Recognition
- Regional Language Support
- Legal Document Templates

Conclusion

A smart, efficient, and user-friendly system that solves real-world Xerox shop problems with strong potential for commercial adoption.

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Thank you