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FLOW OF THE ARTICLE WATERMARKING When User/Editor Uploads (PDF or Word) Step 1: File Upload User clicks "Upload" → File arrives at backend Step 2: File Save (Temporary) File is saved to temporary location: - uploads/temp/ (guest user) - uploads/pdfs/ (logged-in user) Step 3: Add Watermark (NEW!) If PDF is Uploaded: 1. Read the PDF file 2. Load company logo (Screenshot 2026-01-09 204120.png) 3. Add logo to center of PDF (15% opacity) 4. Add "LAW NATION" text to top-right 5. Add download info to bottom 6. Save watermarked PDF (replaces original) If Word is Uploaded: 1. Read the Word file 2. Load company logo 3. Add logo to header 4. Add "LAW NATION" text 5. Save watermarked Word (replaces original) Step 4: Format Conversion If PDF was Uploaded: Convert PDF → Word: 1. Extract text from PDF 2. Create Word document 3. Put text into Word 4. Add watermark to Word file (NEW!) 5. Save watermarked Word file If Word was Uploaded: Convert Word → PDF: 1. Extract text from Word 2. Create PDF document 3. Put text into PDF 4. Add watermark to PDF file (NEW!) 5. Save watermarked PDF file LAW NATION Downloaded from LAW NATION on 18/01/2026 View online: <http://localhost:3000/articles/upload> (Login may be required)

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Step 5: Database Entry Create article in database: - Title, Author, Abstract - PDF path (watermarked file) - Word path (watermarked file) - Status: PENDING Step 6: Email Notification Send email to Admin: "New article received!" Final Result: In Database: originalPdfUrl: /uploads/pdfs/123-456.pdf (with logo ) currentPdfUrl: /uploads/pdfs/123-456.pdf (with logo ) originalWordUrl: /uploads/pdfs/123-456.docx (with logo ) currentWordUrl: /uploads/pdfs/123-456.docx (with logo ) On Disk: uploads/pdfs/123-456.pdf → Has logo uploads/pdfs/123-456.docx → Has logo When Admin/Editor Views: PDF View: Admin clicks "Review" → PDF opens → Company logo in center (light opacity) → "LAW NATION" in top-right → Download info at bottom Word Download: Admin clicks "Download Word" → Word file downloads → Company logo in header → "LAW NATION" text → Download info Key Points: Logo is added at upload time Both formats (PDF + Word) have logo Database stores watermarked file paths Admin/Editor always sees files with logo No frontend changes needed Old files unchanged (only new uploads watermarked) LAW NATION Downloaded from LAW NATION on 18/01/2026

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Complete Flow Diagram: User Upload ↓ Save File (temp/permanent) ↓ Add Watermark (Logo + Text) ↓ Convert to Other Format ↓ Add Watermark to Converted File ↓ Save Both Files (PDF + Word) ↓ Database Entry (watermarked paths) ↓ Email Notification ↓ Admin/Editor Views → Sees Logo LAW NATION Downloaded from LAW NATION on 18/01/2026

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