

Document Processing System

Entity Relationship Diagram (Structured View)

Users

id (PK)
email
username
hashed_password
is_active
is_admin
created_at
updated_at

Documents

id (PK)
user_id (FK)
filename
original_filename
file_path
file_size
file_type
document_type
classification_confidence
readability_score
quality_score
is_blurry
is_skewed
page_count
has_signature
text_summary
document_date
extracted_data
validation_status
validation_result
is_processed

processing_error
uploaded_by
customer_id
created_at
updated_at
client_name

Document Validations

id (PK)
document_id (FK)
validation_rule_id (FK)
passed
failure_reason
validation_details
created_at

Validation Rules

id (PK)
rule_name
rule_description
document_type
requires_signature
requires_account_number
custom_logic
is_active
created_at
updated_at

Processing Logs

id (PK)
document_id (FK)
step_name
status
execution_time
details
error_message

created_at

Classification Results

id (PK)
document_id (FK)
predicted_type
confidence
method
matched_sample_id (FK)
similarity_score
is_confident
corrected_type
corrected_by
created_at

Document Samples

id (PK)
doc_type
file_name
file_path
extracted_text
embedding
uploaded_by
is_active
uploaded_at

Relationships

Users (1) — (M) Documents

Documents (1) — (M) Processing Logs

Documents (1) — (M) Classification Results

Documents (1) — (M) Document Validations

Validation Rules (1) — (M) Document Validations

Document Samples (1) — (M) Classification Results