

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