

# RAG/RBAC Deliverables Report

Date: 2026-01-14

## Summary

- Pipeline: clean -> chunk -> embed -> index (Chroma persistent store)
- Embeddings: 1000 dimensions

## Data Coverage

- Engineering: 39 chunks
- Marketing: 49 chunks

## RBAC Implementation

- Hierarchy: admin > department roles (finance/ engineering/ hr/ marketing) > employee
- Metadata: allow/deny

## Interfaces

- Terminal chatbot: demo preview/ demo\_chatbot.py
- Streamlit chatbot

## Validation

- tests/ verify\_rbac.py confirms role-based filtering
- tests/ verify\_chatbot.py

## Deliverables

Deliverable	Status	Location
Embedding generation module	Completed	processing/generate_embeddings.py
Populated vector database with indexed documents	Completed	vectorstore/chroma
Semantic search functionality and query interface	Completed	query/query_engine.py; demo preview/demo_*
Search quality and performance benchmarking	Pending	(add benchmark script/report)
Role-based access control filtering module	Completed	rbac/rbac_filter.py
Query processing and normalization utilities	Completed	query/query_engine.py

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Role permission configuration and hierarchy definition	Completed	rbac/rbac_filter.py
Role-based access validation test suite and results	Completed	tests/verify_rbac.py; tests/verify_chromadb.py

## Pending

- Add a short search benchmarking run (latency/ relevance) and capture results.