MiniRAGSystem
- config
- index
- chunkStore

RagOrchestrator
- context
- pipeline
- traceBus

Pipeline
- stages

<<interface>> PipelineStage

RagContext
- question
- intent {Registration, StaffLookup, PolicyFAQ, Course, Unknown}
- queries
- hits
- answer

IntentDetectionStage
- detector

RetrievalStage
- retriever

AnswerStage
- answerAgent

QueryWritingStage
- writer

RerankingStage
- reranker

<<interface>> IntentDetector

<<interface>> QueryWriter

<<interface>> Retriever

<<interface>> Reranker

<<interface>> AnswerAgent

RuleIntentDetector
- rulesConfigPath

HeuristicQueryWriter
- stopwords
- intentBoosters

HeuristicQueryWriter
- index
- topK

SimpleReranker
- proximityWindow
- titleBoost

TemplateAnswerAgent
- maxSentences

Document
- docId
- title
- type
- sourceFile

Chunk
- chunkId
- docId
- sectionId
- startOffset
- endOffset
- text

Hit
- docId
- chunkId
- score

Answer
- text
- citations

Citation
- docId
- sectionId
- startOffset
- endOffset

KeyWordIndex
- indexPath
- postings

ChunkStore
- storePath
- chunks

RagConfig
- indexFile
- chunksFile
- rulesConfigFile
- traceFile

TraceEvent
- stageName
- inputsSummary
- outputsSummary
- durationMs
- errorMessage

<<interface>> TraceSink

TraceBus
- sinks

JsonlTraceSink
- outputFilePath