

Course Project. Intelligent PDF Search

Student

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This project is a system for uploading and searching PDF documents using both full-text and semantic search. The backend is written in Go, the database is PostgreSQL with pg_trgm and pgvector extensions. A Python microservice (Flask) generates embeddings using the all-MiniLM-L6-v2 model. The web UI is built with Flask + htmx, enabling asynchronous search result updates. All components are packaged with Docker Compose for easy deployment.