DeCognize

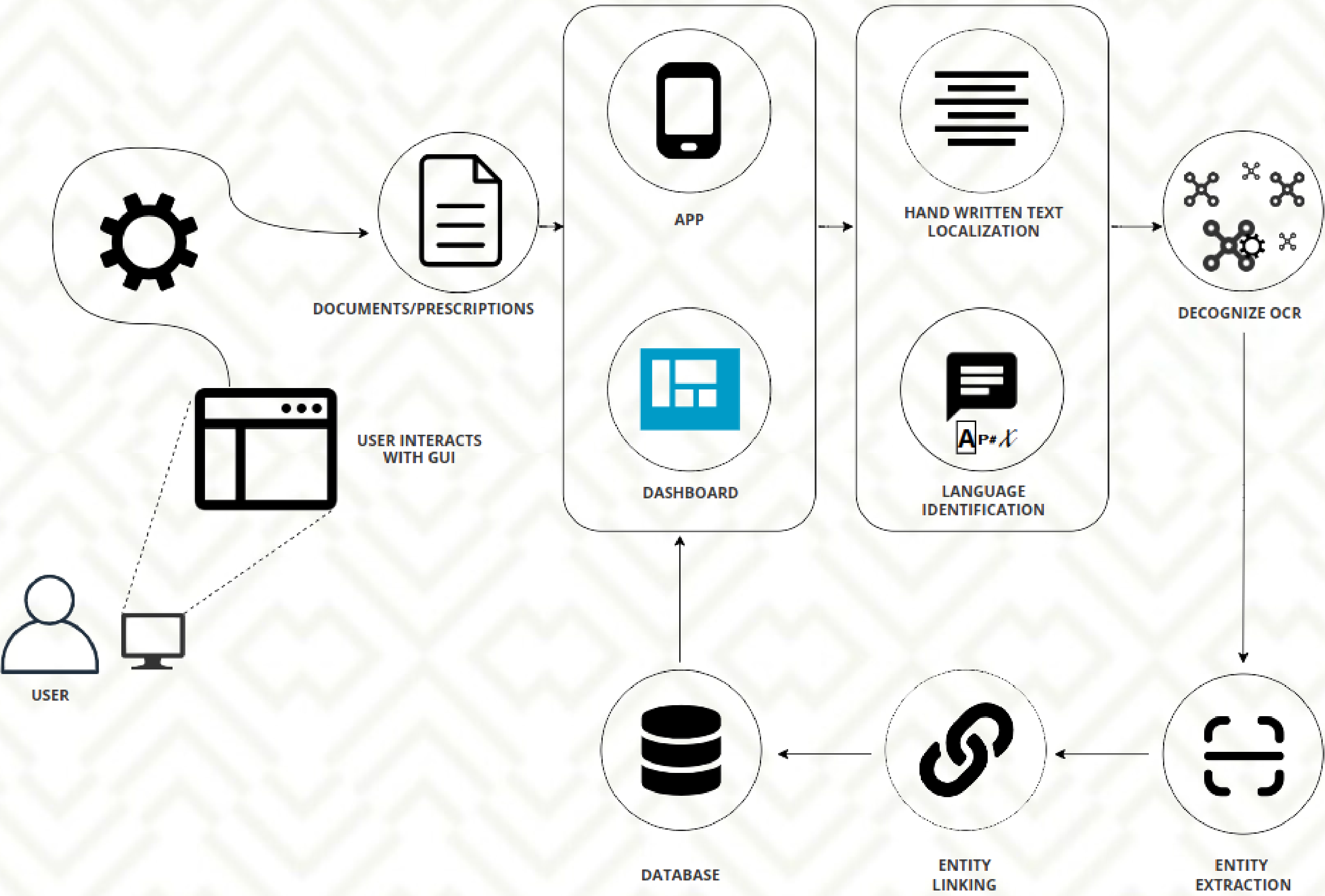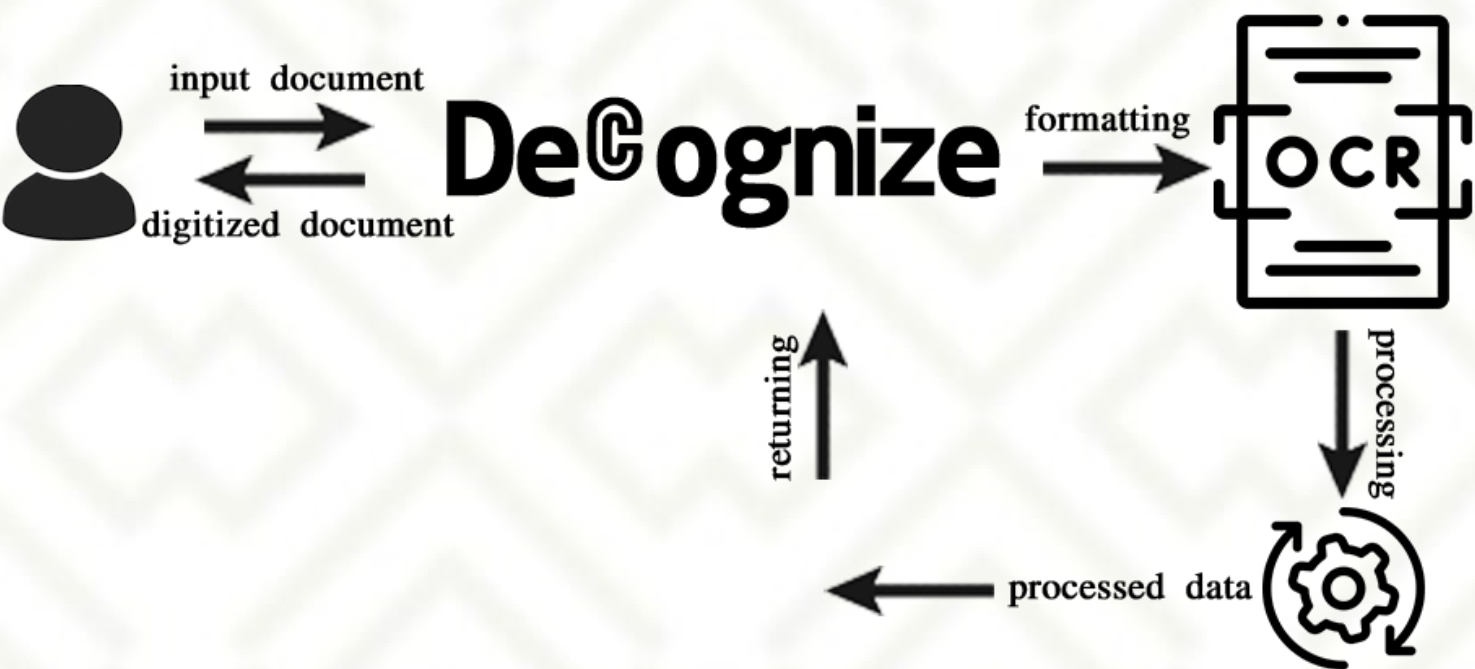### Prescription Digitization Using Knowledge Graphs

OUR METHODOLOGY INCLUDES EXTRACTING TEXT FROM DOCUMENTS AND THEN PARSING CRUCIAL ENTITIES TO ORGANIZE INFORMATION IN A STRUCTURED MANNER. THIS STRUCTURED FORMAT EMPOWERS ORGANIZATIONS TO ANALYZE THE DATA EFFECTIVELY, FACILITATING DATA-DRIVEN DECISIONS BASED ON THE DOCUMENT INFORMATION.

ARCHITECTURE

DOCUMENTS/PRESCRIPTIONS

APP

HAND WRITTEN TEXT LOCALIZATION

DECOGNIZE OCR

USER INTERACTS WITH GUI

DASHBOARD

LANGUAGE IDENTIFICATION

USER

DATABASE

ENTITY LINKING

ENTITY EXTRACTION

FLOW

input document

DeCognize

formatting

OCR

digitized document

returning

processing

processed data

GOAL

"DECOGNIZE" AIMS TO SIMPLIFY HEALTHCARE DATA MANAGEMENT BY USING ADVANCED TECHNOLOGIES TO STREAMLINE THE DIGITIZATION OF PRESCRIPTIONS, ENSURING ENHANCED EFFICIENCY AND IMPROVED PATIENT SAFETY.

GROUP MEMBERS:	SUPERVISOR	TOOLS
MUHAMMAD SHARJEEL AKHTAR (20P-0101) MAHAD ASHRAF (20P-0563)	SIR.SOHAIB MUHAMMAD KHAN	neo4j, docker, python, TensorFlow, K, OpenCV