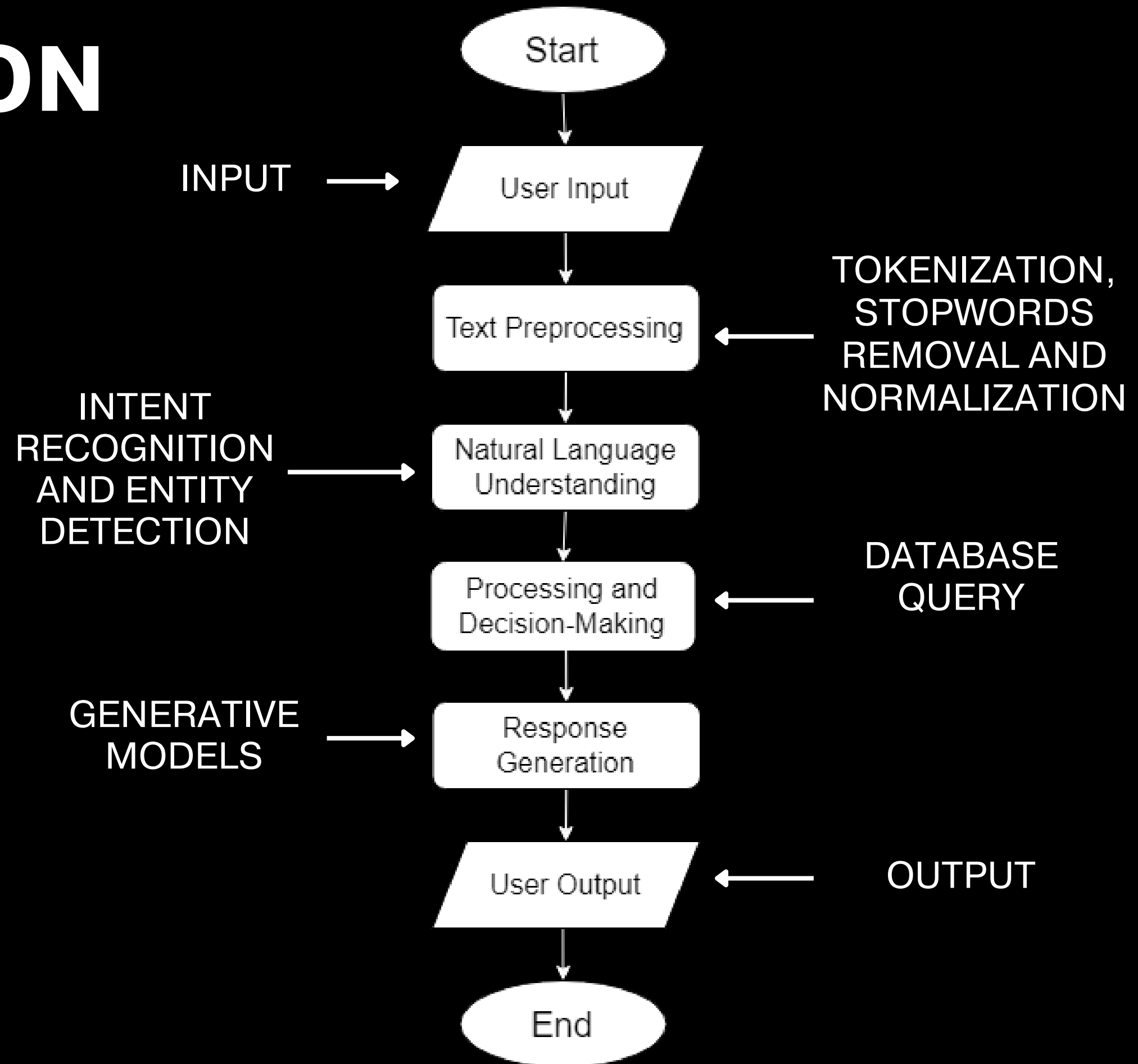# BOLETA TUYA

Chatbot Generation
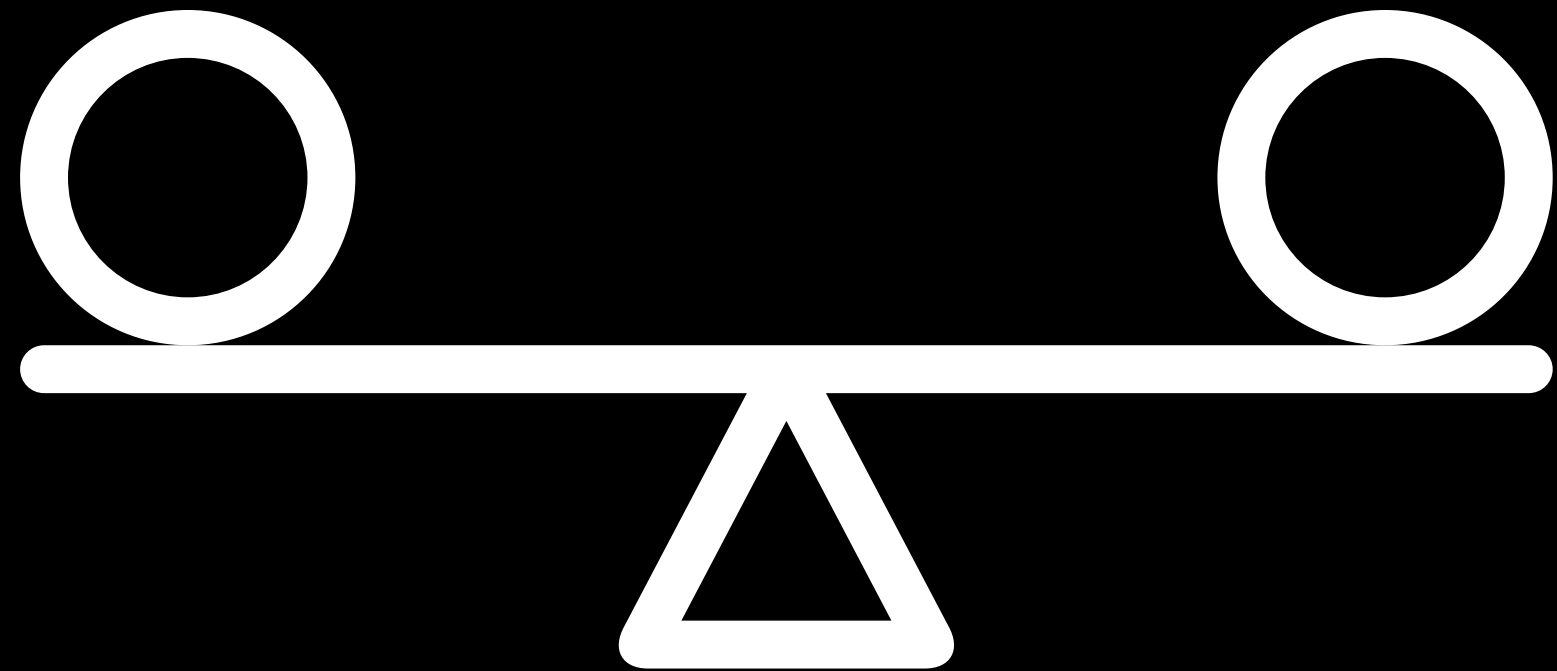
PRESENTED TO

Carlos Andrés Sierra Virgüez

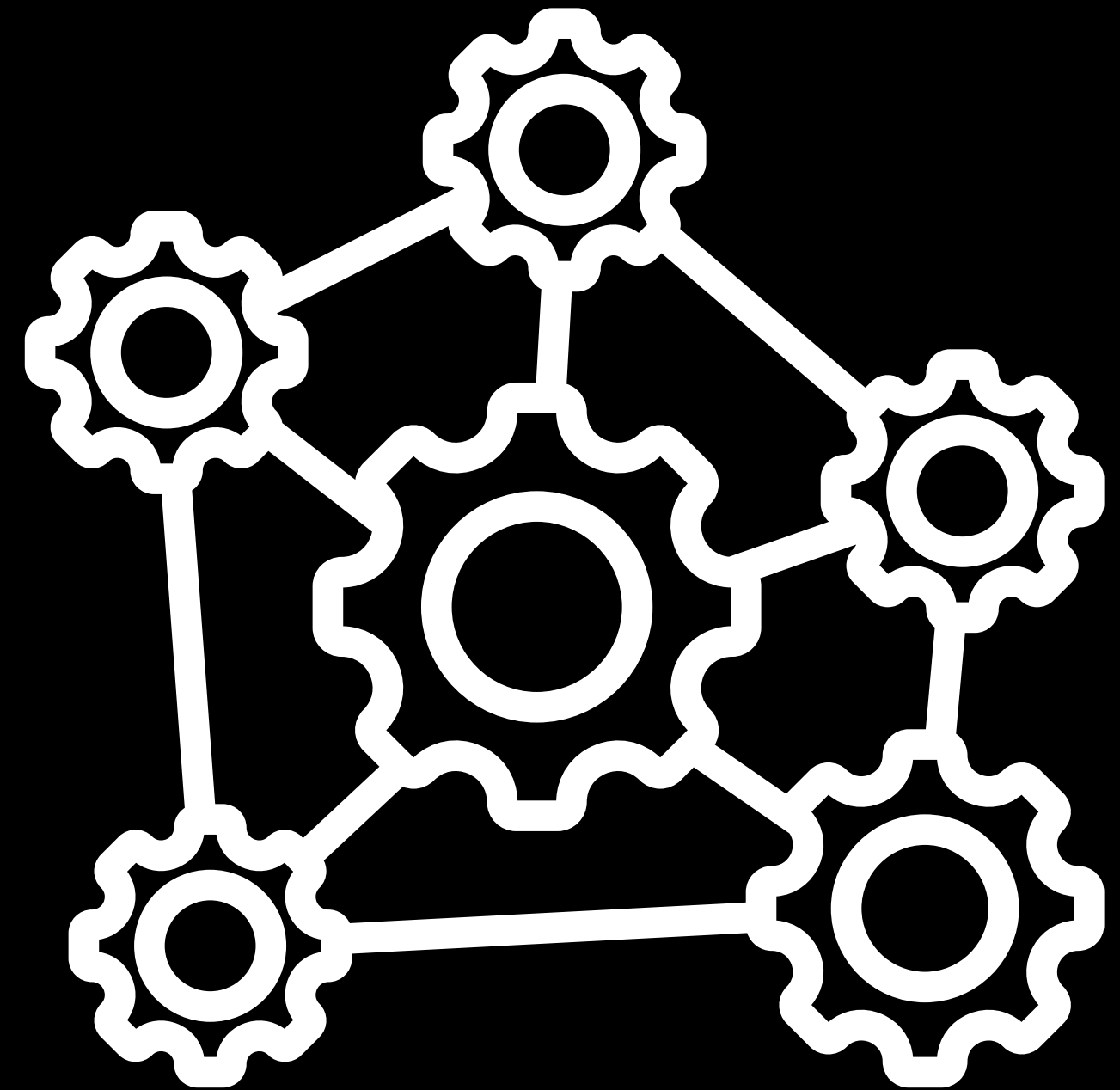**PRESENTED BY**

Devin Alzate - Bettsy Garces

GENERAL REPRESENTATION
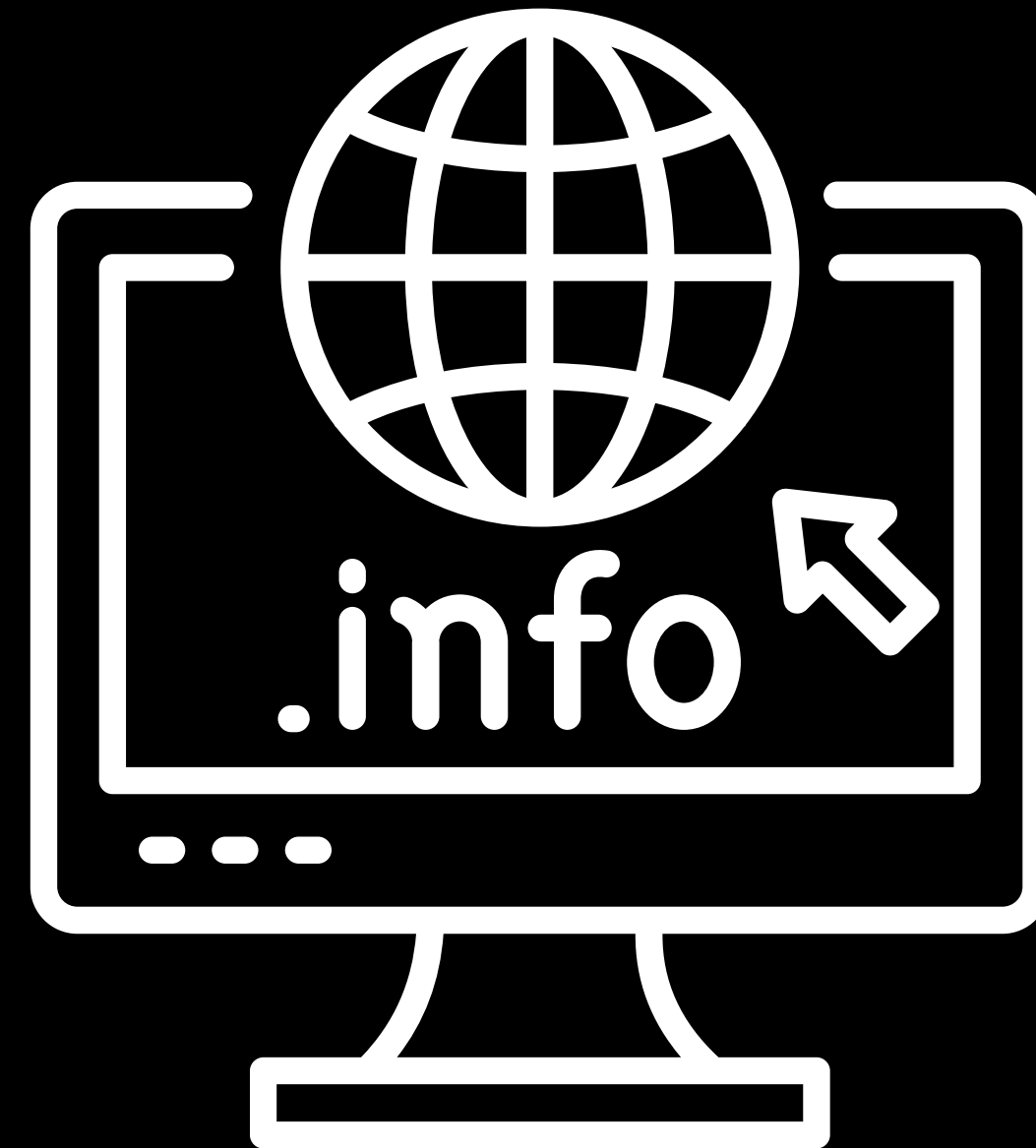
SENSITIVITY ANALYSIS

SENSITIVITY ANALYSIS IS CRUCIAL TO IDENTIFY HOW VARIATIONS IN THE DIFFERENT COMPONENTS OF THE SYSTEM WILL AFFECT THE FINAL PERFORMANCE OF THE CHATBOT, WHEN IT COMES TO RESOLVING USER QUESTIONS.

1. TRAINING DATA EVALUATION

- IMPACT OF INFORMATION QUALITY AND QUANTITY

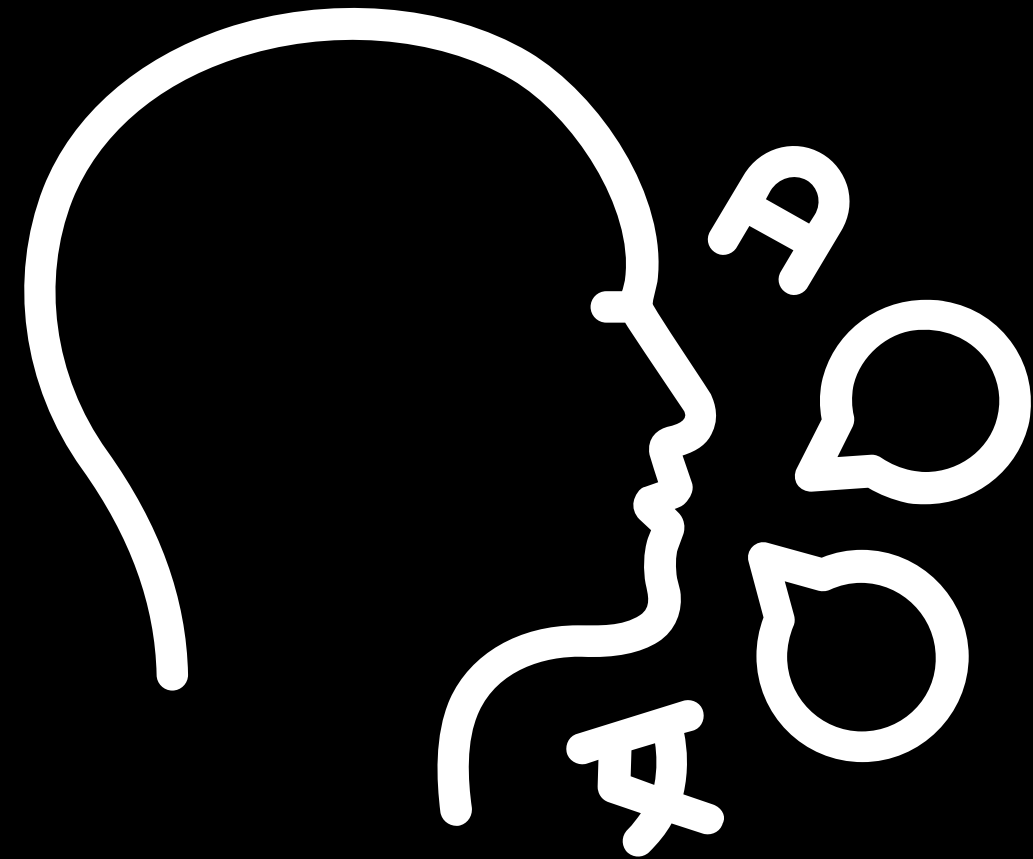- PRECISION OF RESPONSES

2.QUERYS OUT OF CONTEXT

- HANDLING UNEXPECTED QUESTIONS

- EVAUATION OF EFFECTIVE ERROR HANDLING

3.LANGUAGE VARIABILITY

- DIFFERENT FORMS OF EXPRESSION

- USE OF SLANG

- FORMAL OR INFORMAL LANGUAGE
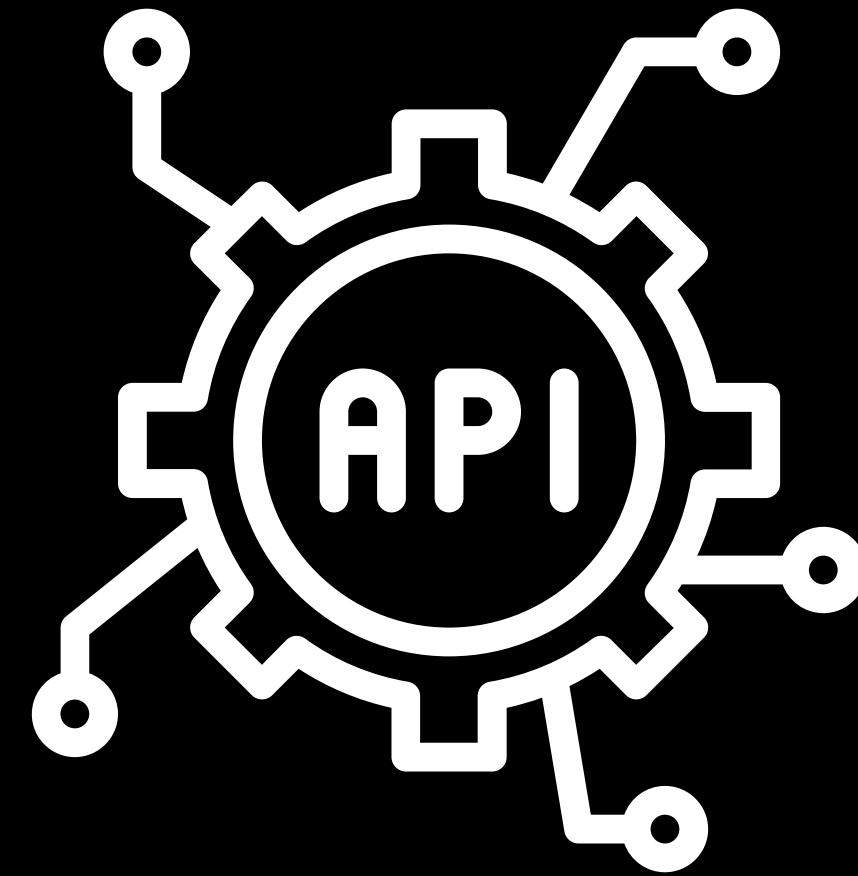
COMPLEXITY ANALYSIS

1.EXECUTION TIME

- NUMBER OF OPERATIONS
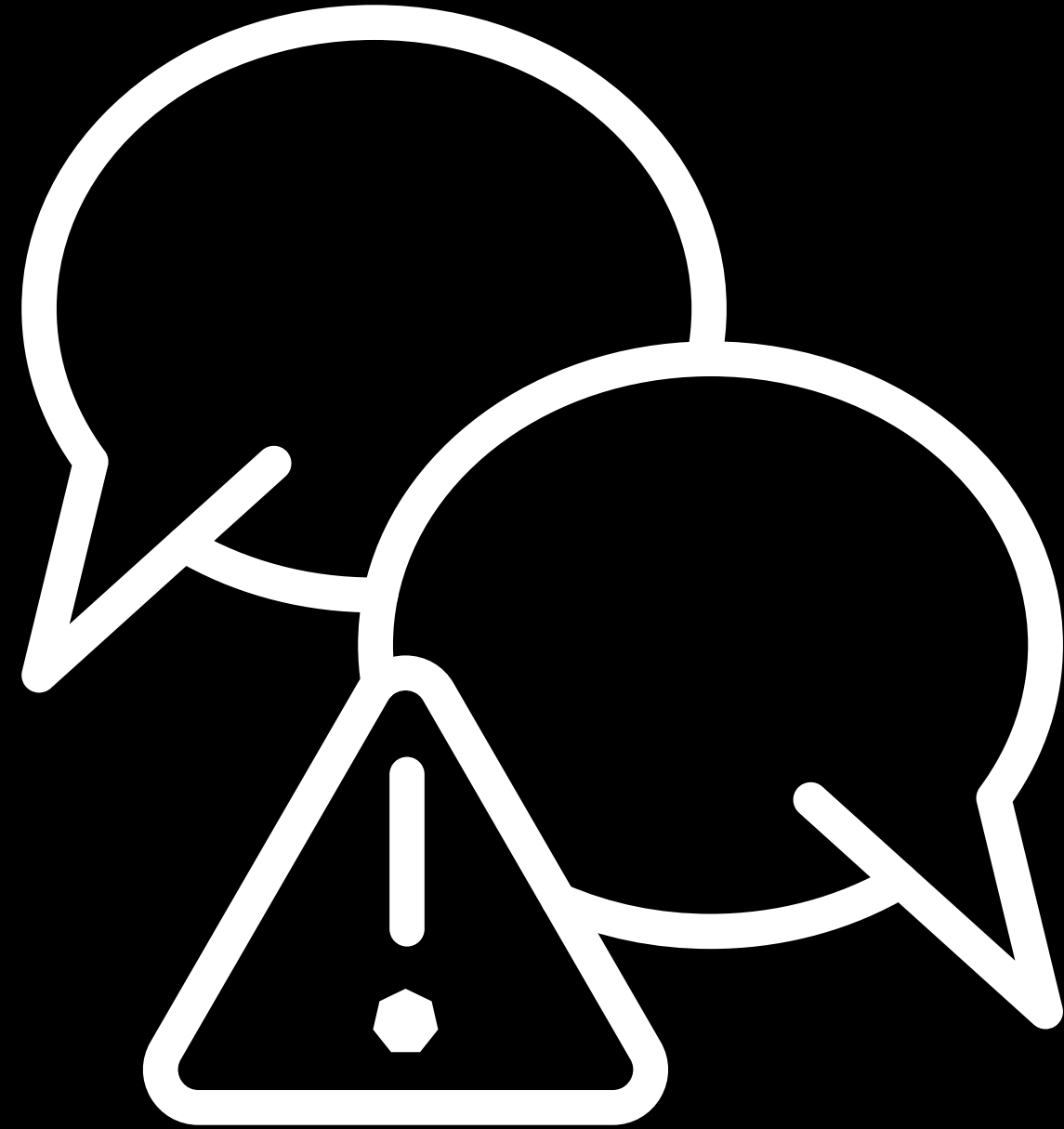
- INDIVIDUAL OPERATION TIME

2.COMMUNICATION BETWEEN COMPONENTS AND SCALABILITY

- INTERACTION WITH API'S

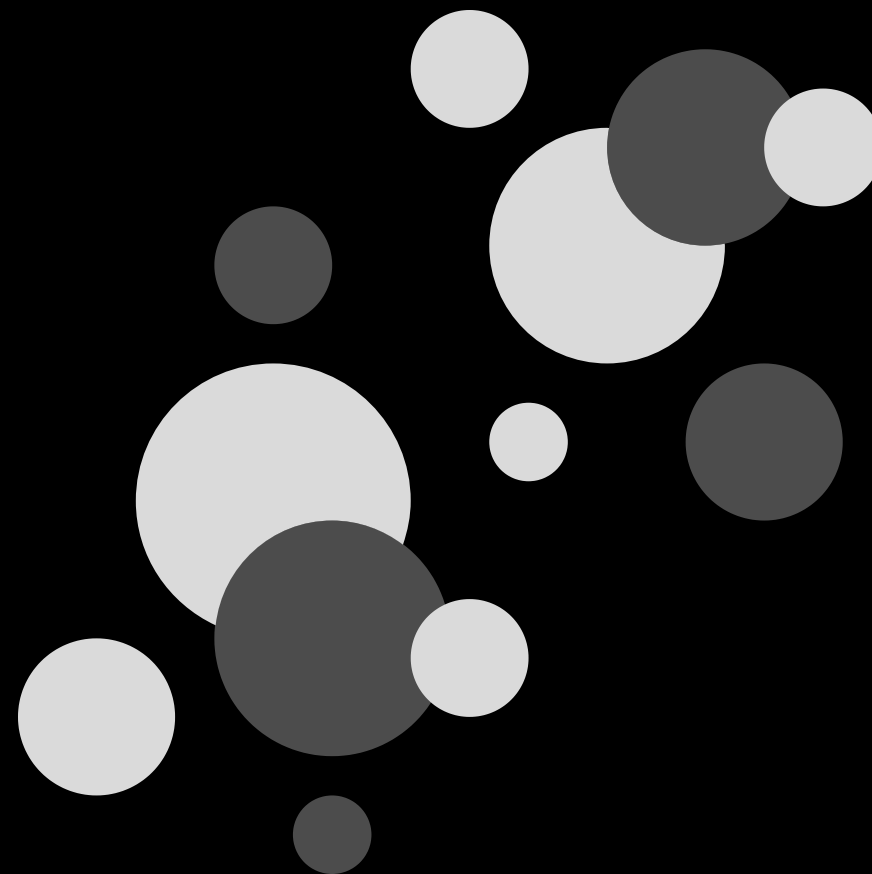- NUMBER OF CONCURRENT QUESTIONS OUTSIDE OF RESPONSE TIME

3. ERROR HANDLING

- POORLY FORMULATED QUESTIONS

- OUT-OF-DOMAIN OR OBJECTIVE TOPICS

EMERGENT BEHAVIORS

- ADAPTATION TO USER LANGUAGE

- IMPROVED INTENT DETECTION

- GENERALIZATION OF RESPONSES TO NEW SITUATIONS

- HANDLING AMBIGUOUS OR INCOMPLETE QUERIES

- IMPROVE ERROR HANDLING

- AUTOCORRECTION AND HANDLING OF TYPOGRAPHICAL ERRORS