

UNIVERSITY OF BUEA

FACULTY OF ENGINEERING AND
TECHNOLOGY

CEF 440 : INTERNET AND MOBILE PROGRAMMING
TASK 2

REQUIREMENT ANALYSIS

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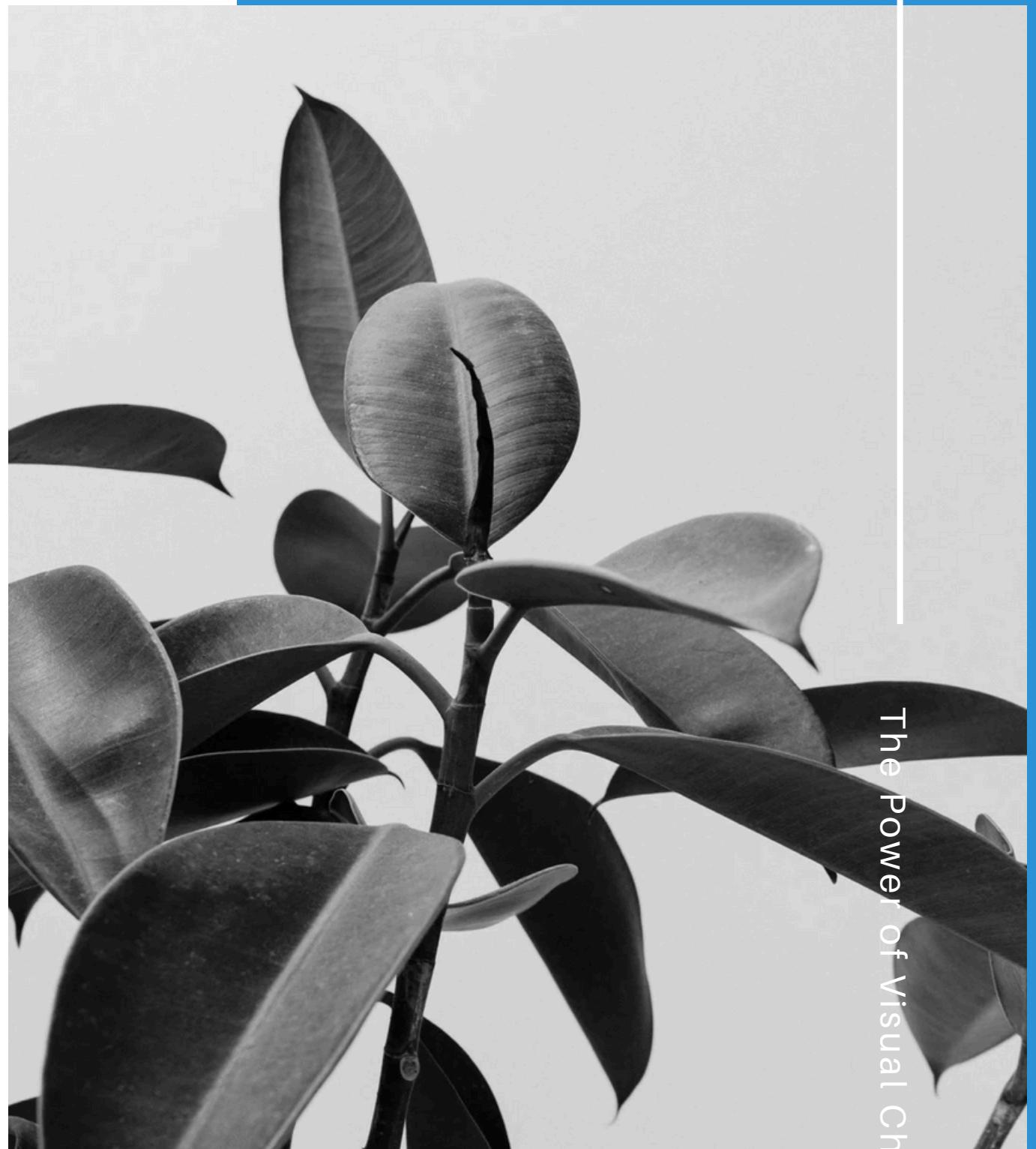
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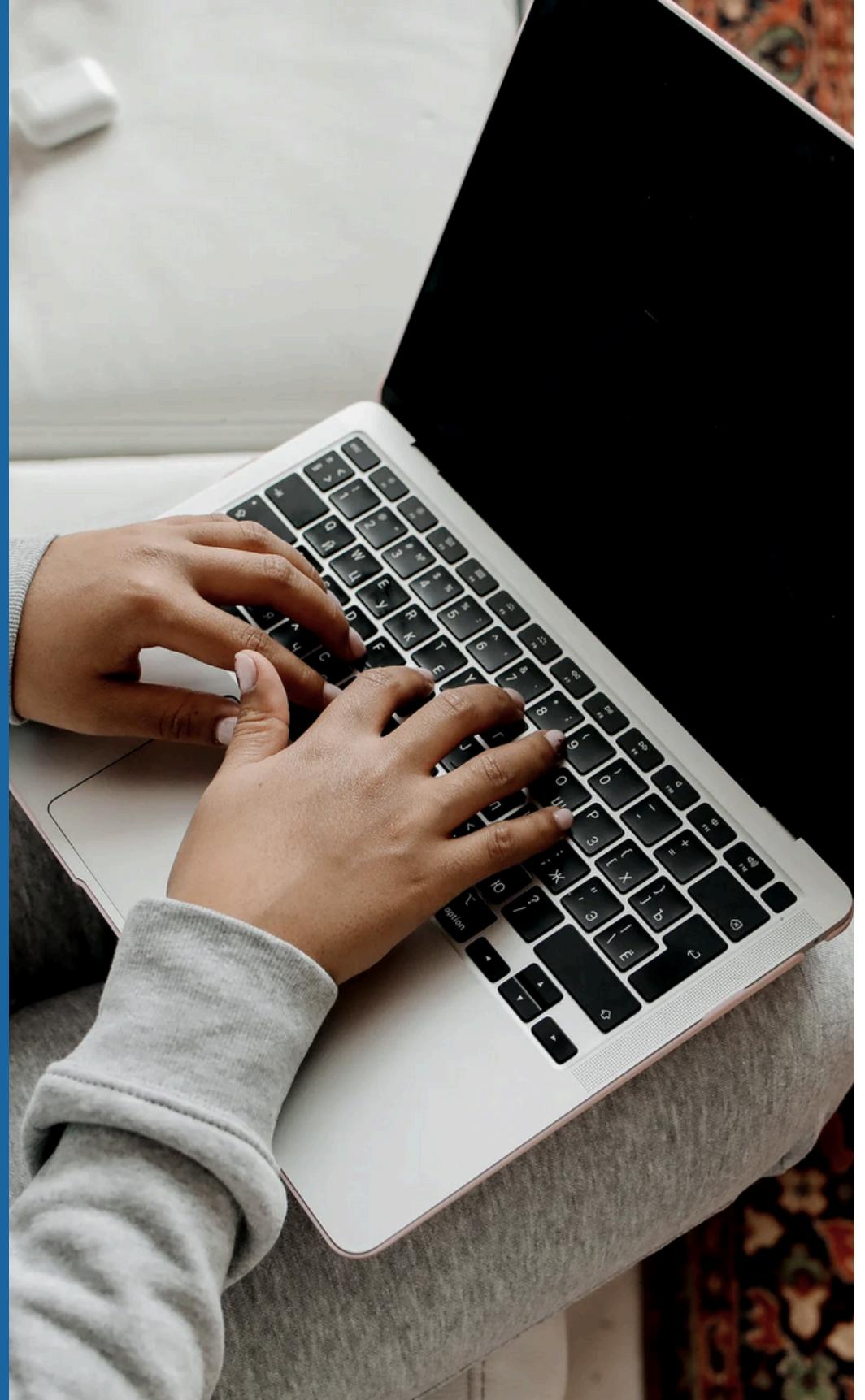
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1 INTRODUCTION

The text highlights the use of mobile technology in government services, particularly Mobile Government systems, emphasizing their importance for smart cities. It introduces a proposed application, a Mobile-Based Archival and Retrieval of Missing Objects using Image Matching, which aims to create a user-friendly platform for identifying lost items through captured images.



2 WHAT IS REQUIREMENT ANALYSIS ?

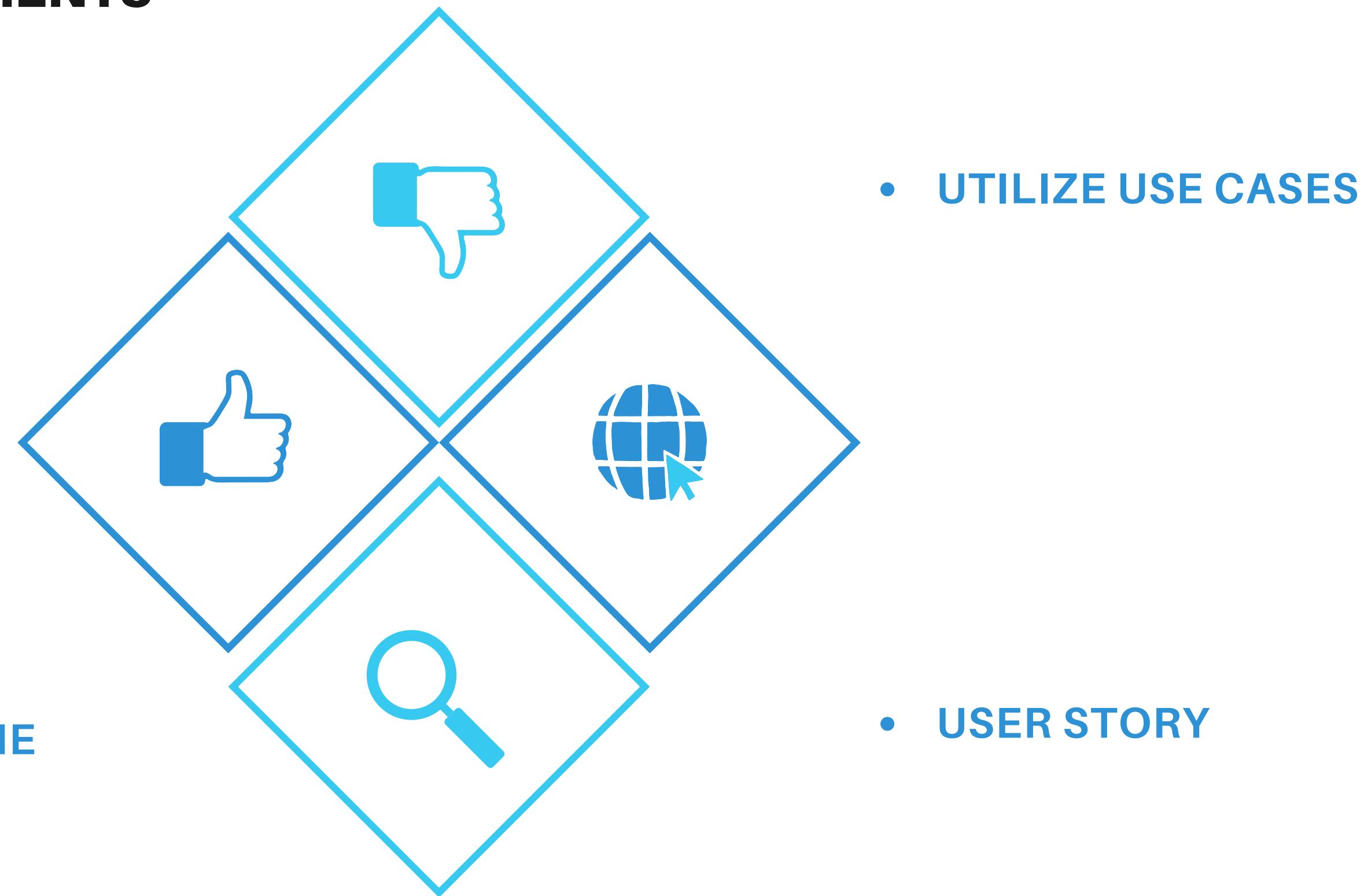
Requirements Analysis is the process of defining the expectations of the users for an application that is to be built or modified.

This processes of englobes the identification of inconsistencies, redundancies, and missing information in the gathered requirements.

3 PROCESSES INVOLVED IN REQUIREMENT ANALYSIS

A. CAPTURE REQUIREMENTS

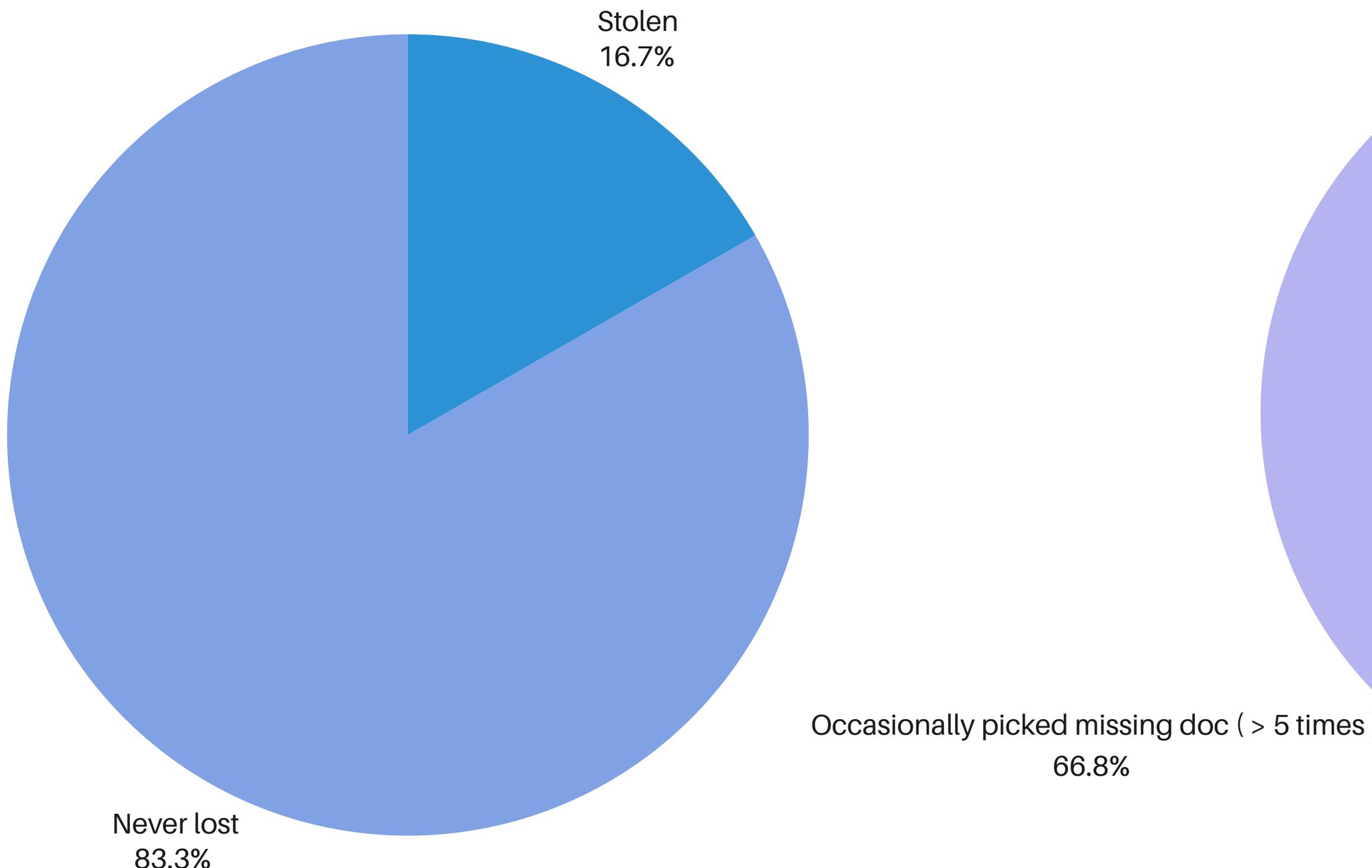
- IDENTIFY KEY STAKEHOLDERS AND END-USERS



- RESULTS FROM OUR ONE ON ONE INTERVIEW:

QUESTION 1

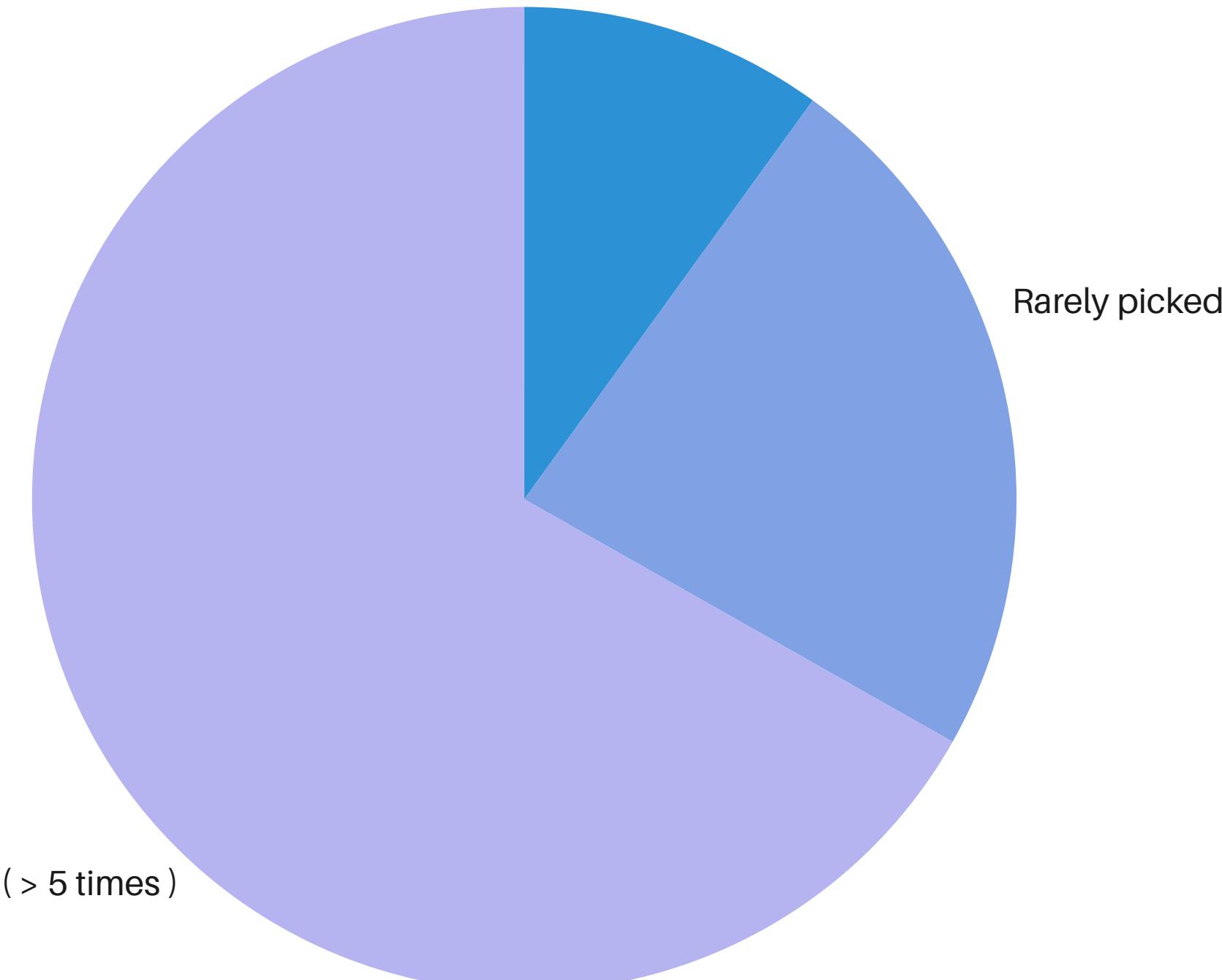
Experience on lost document



QUESTION 3

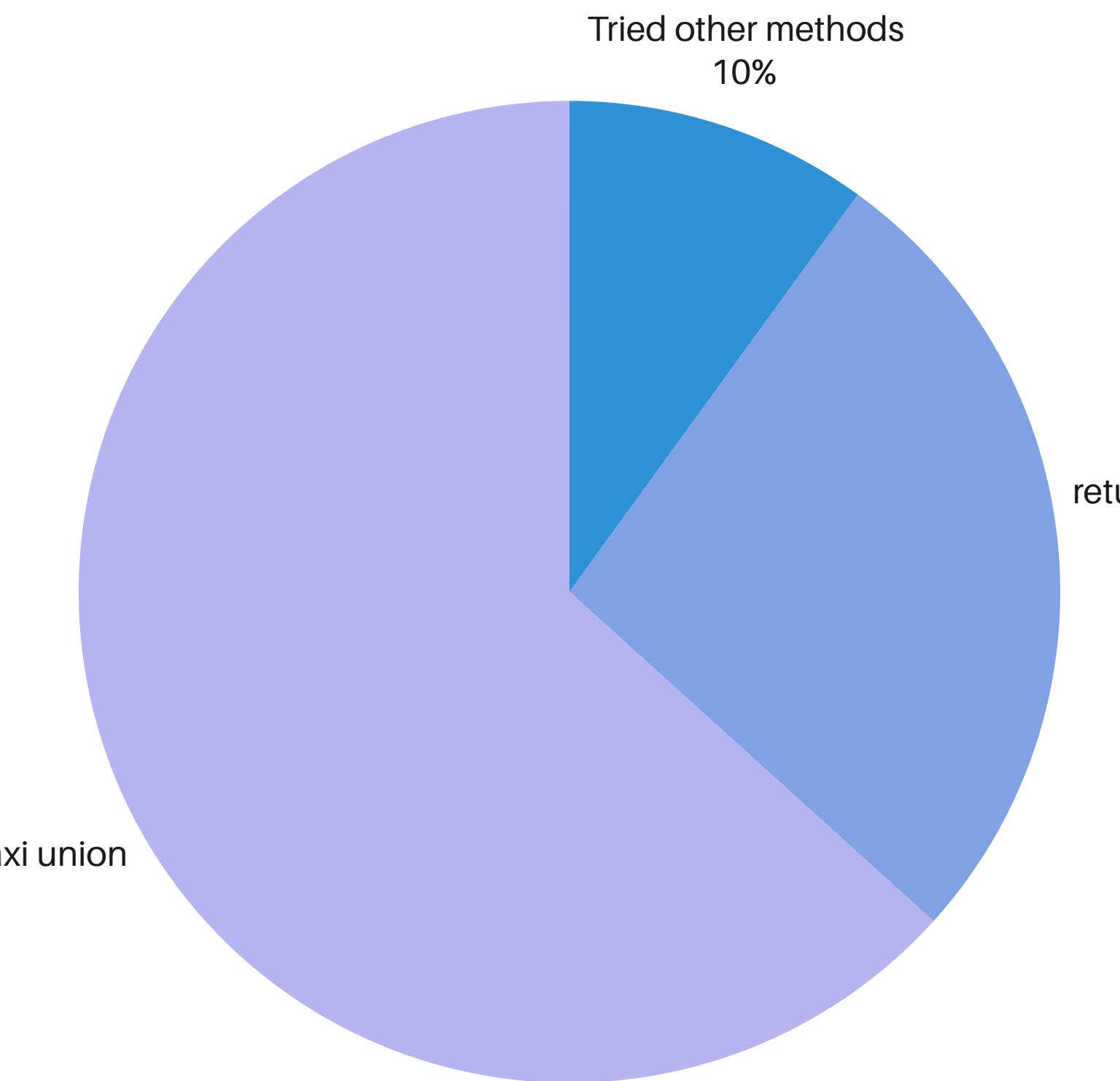
Recovered any lost document

Never picked a missing doc
10%



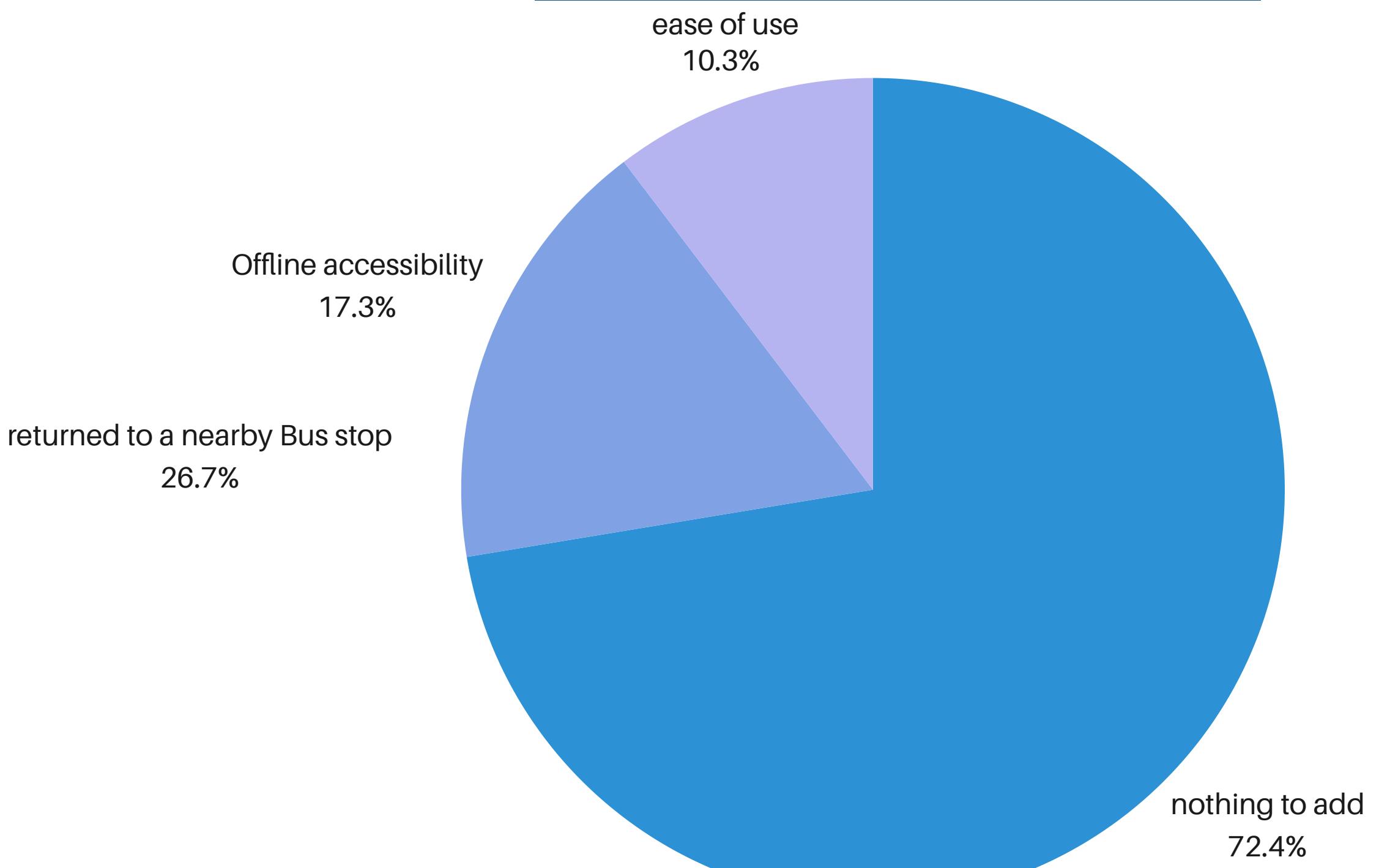
QUESTION 4

Recovered methods for lost documents

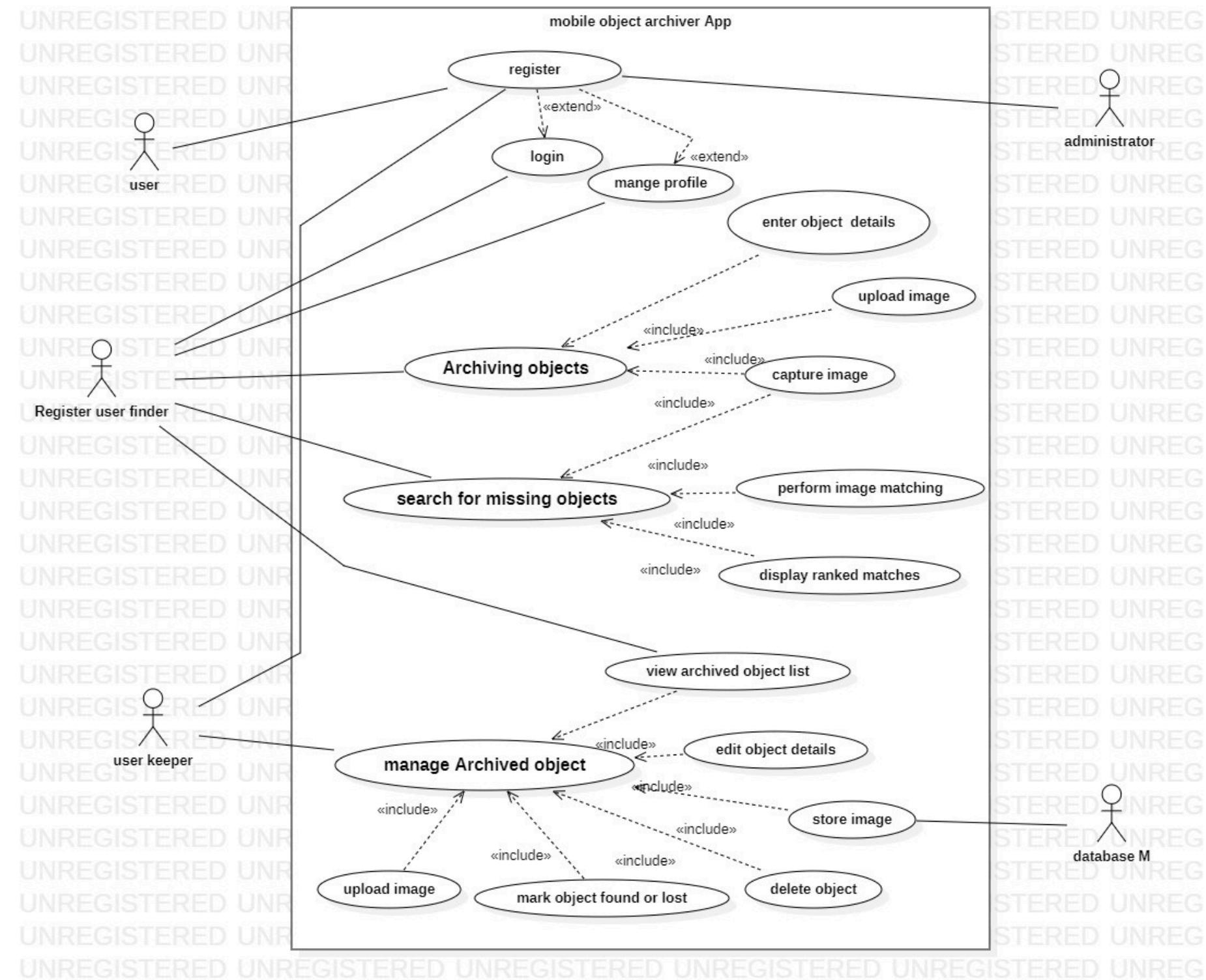


QUESTION 6

Key functionalities



• UTILIZING USE CASES:



Use case diagram for mobile base object archival application.

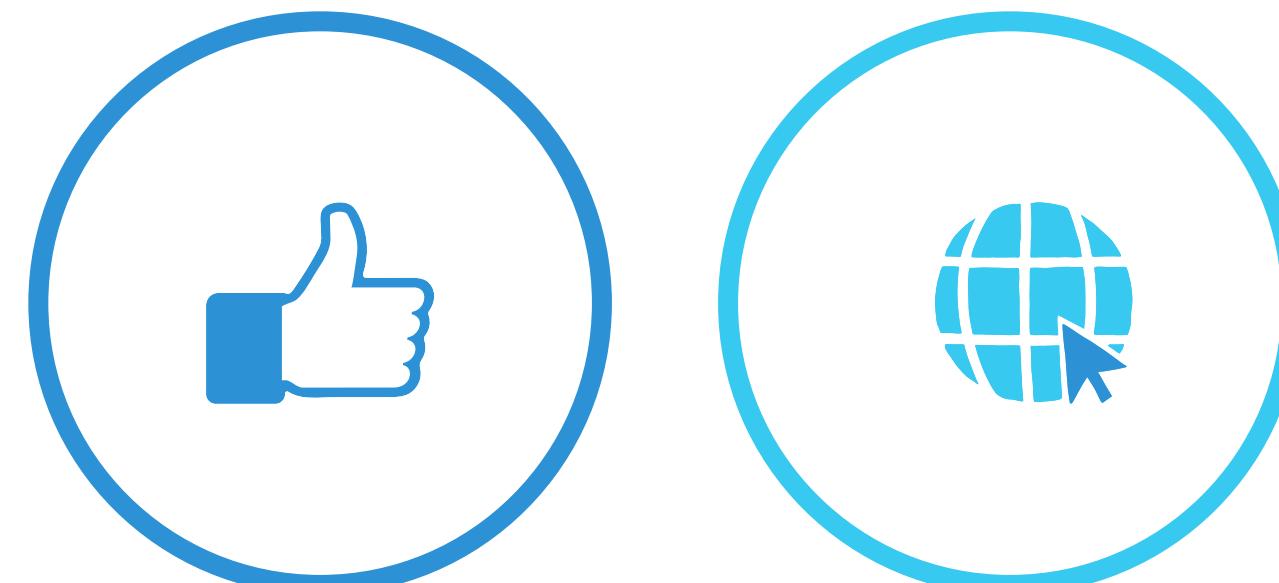
B. CATEGORIZING THE REQUIREMENTS

- **FUNCTIONAL REQUIREMENTS**

User Management

Object archival (keeper)

Object Retrieval (finder):



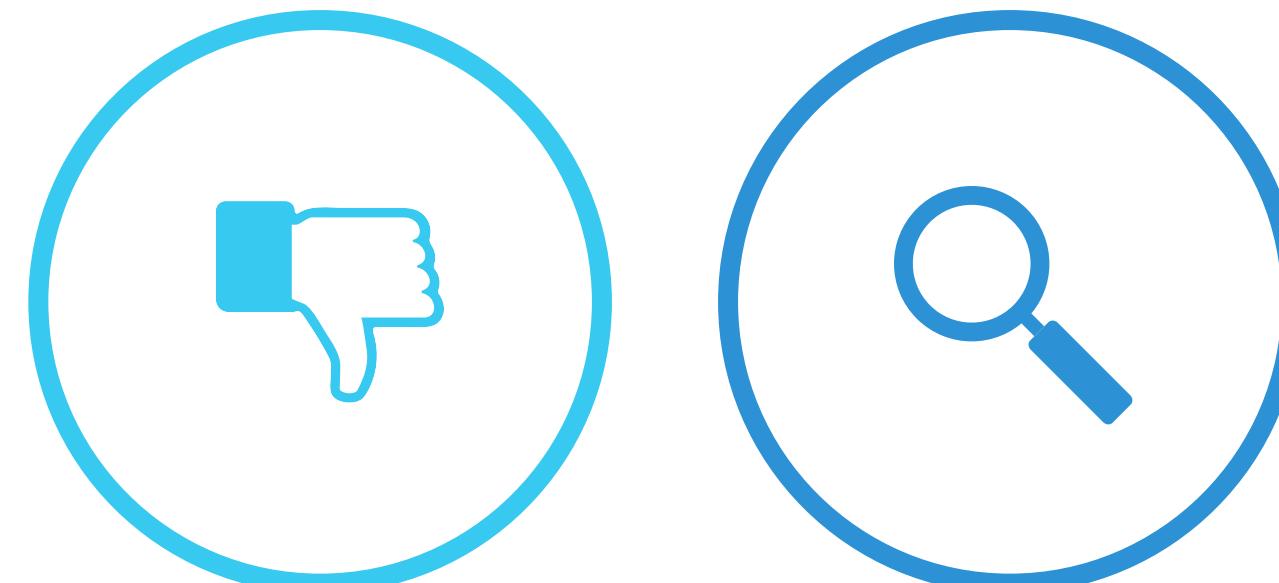
- **NON-FUNCTIONAL REQUIREMENTS**

Performance:

Availability:

Security:

Usability:



- **TECHNICAL REQUIREMENTS**

Image Management:

Image Recognition and Search:

Mobile App Development:

- **PRIORITIZE THE REQUIREMENTS**

High Priority:

Medium Priority:

Low Priority:

- NON- FUNCTIONAL REQUIREMENTS

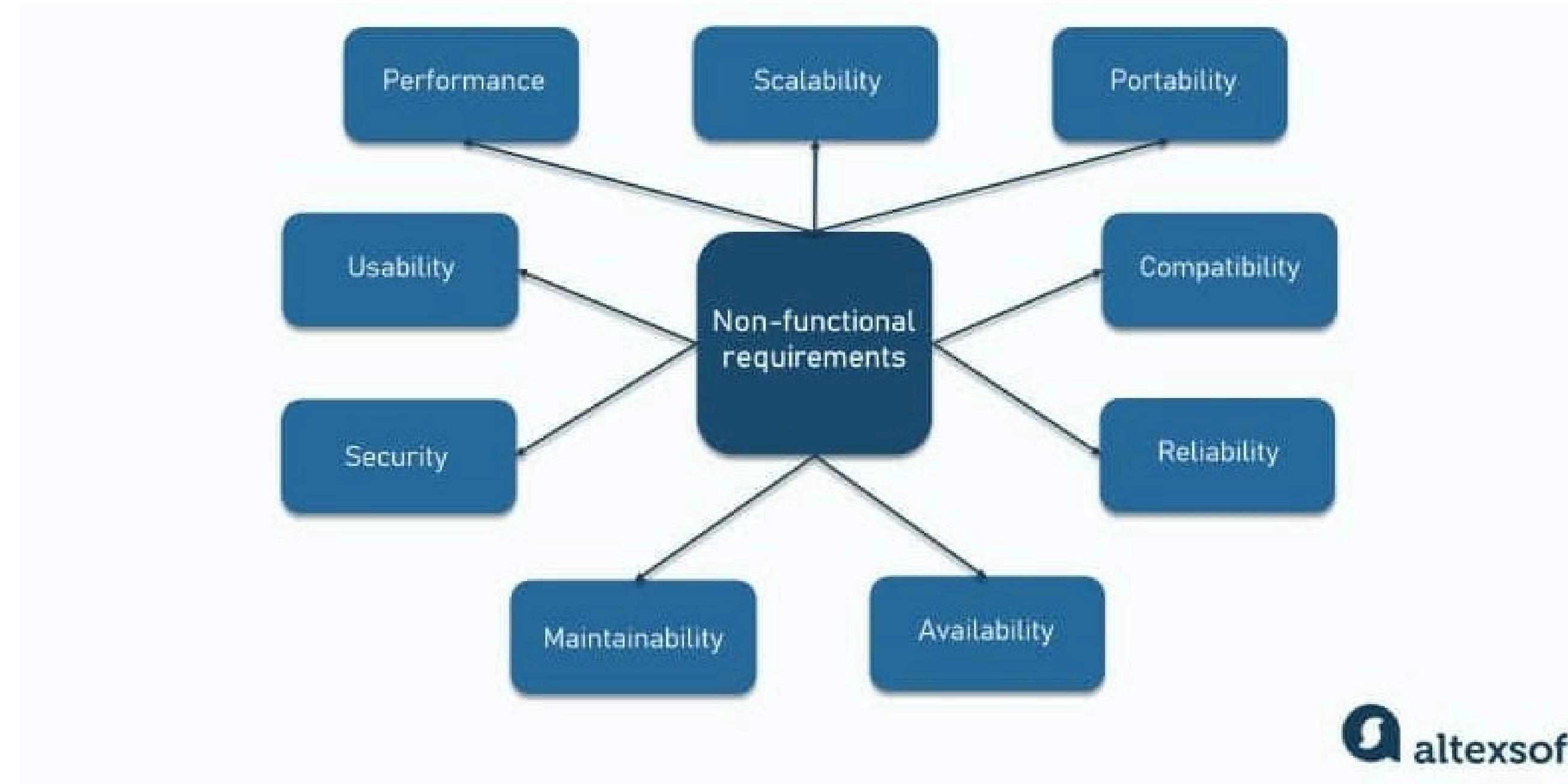
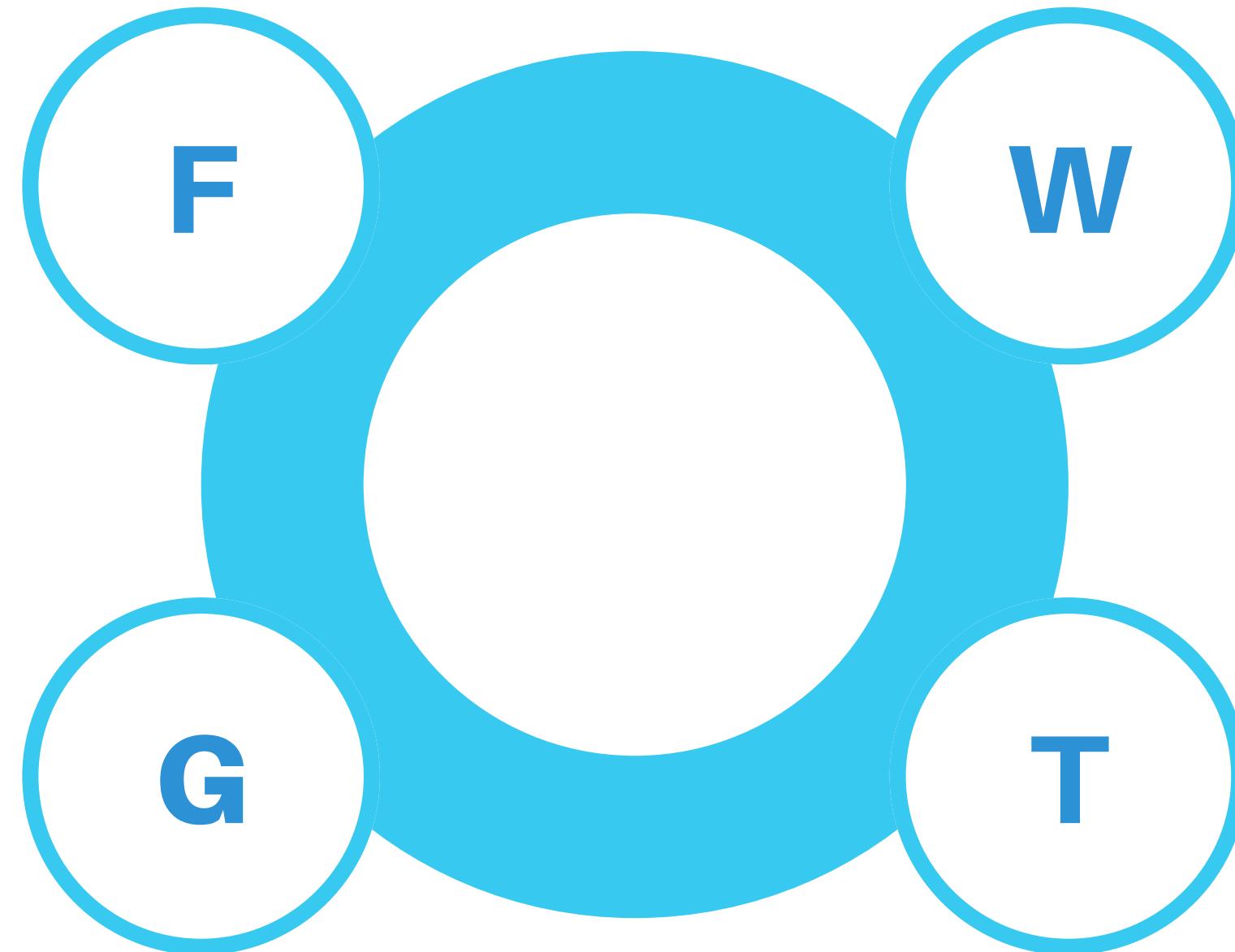


image depicting the non-functional requirements of our system

4. TECHNIQUES USED IN REQUIREMENT ANALYSIS

- **FLOWCHARTS**

Flowcharts depict sequential flow and control logic of a related set of activities. They are useful for all stakeholders of the system.



- **GANTT CHARTS**

Gantt Charts provide a visual representation of tasks along with their scheduled timelines.

• FLOW CHART

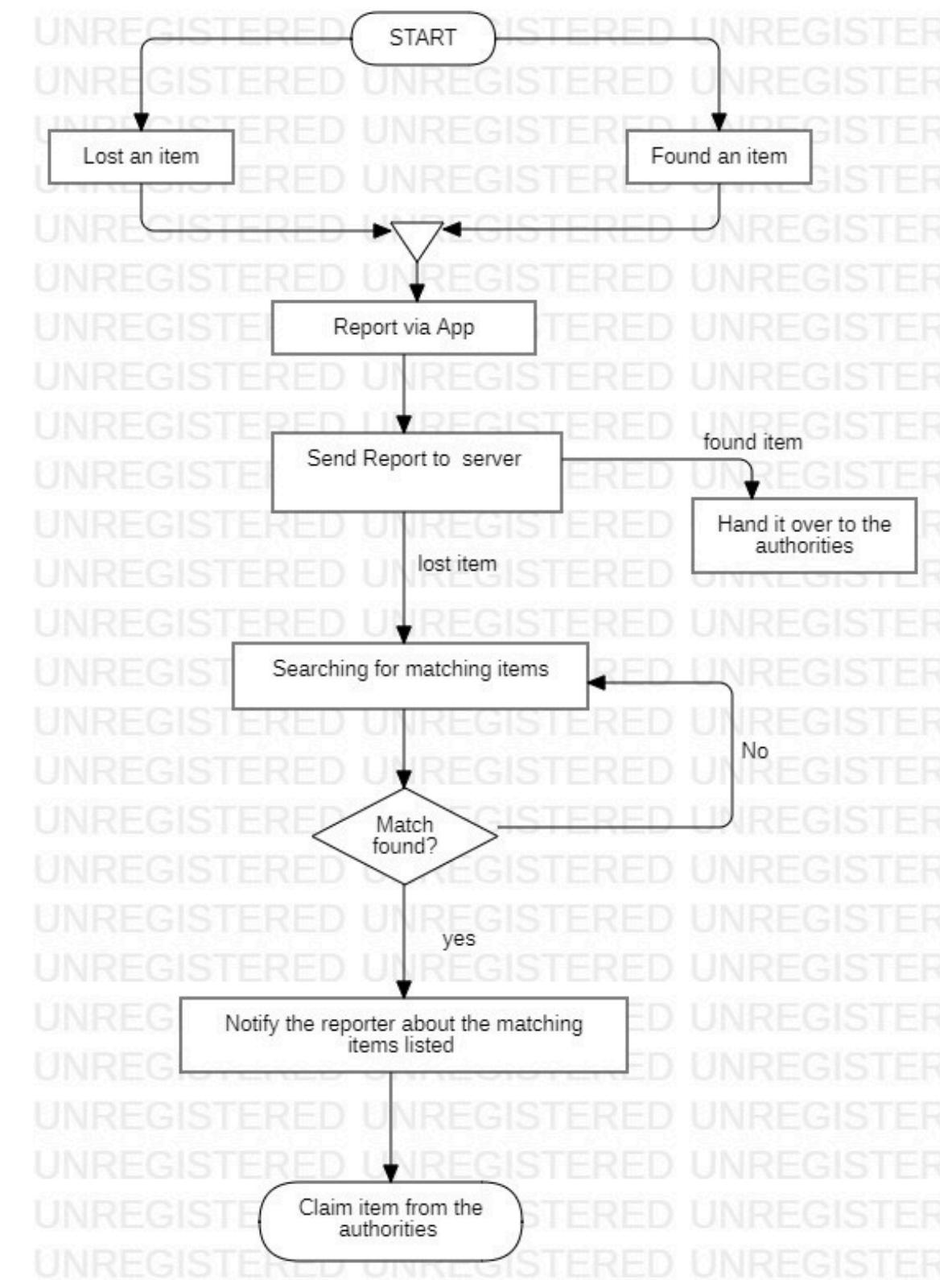


image depicting the flow chart of our system

5. BENEFIT OF REQUIREMENT ANALYSIS



- **IMPROVED USER EXPERIENCE (UX):**

Focus on User Needs

Usability and Efficiency



- **REDUCED DEVELOPMENT RISKS:**

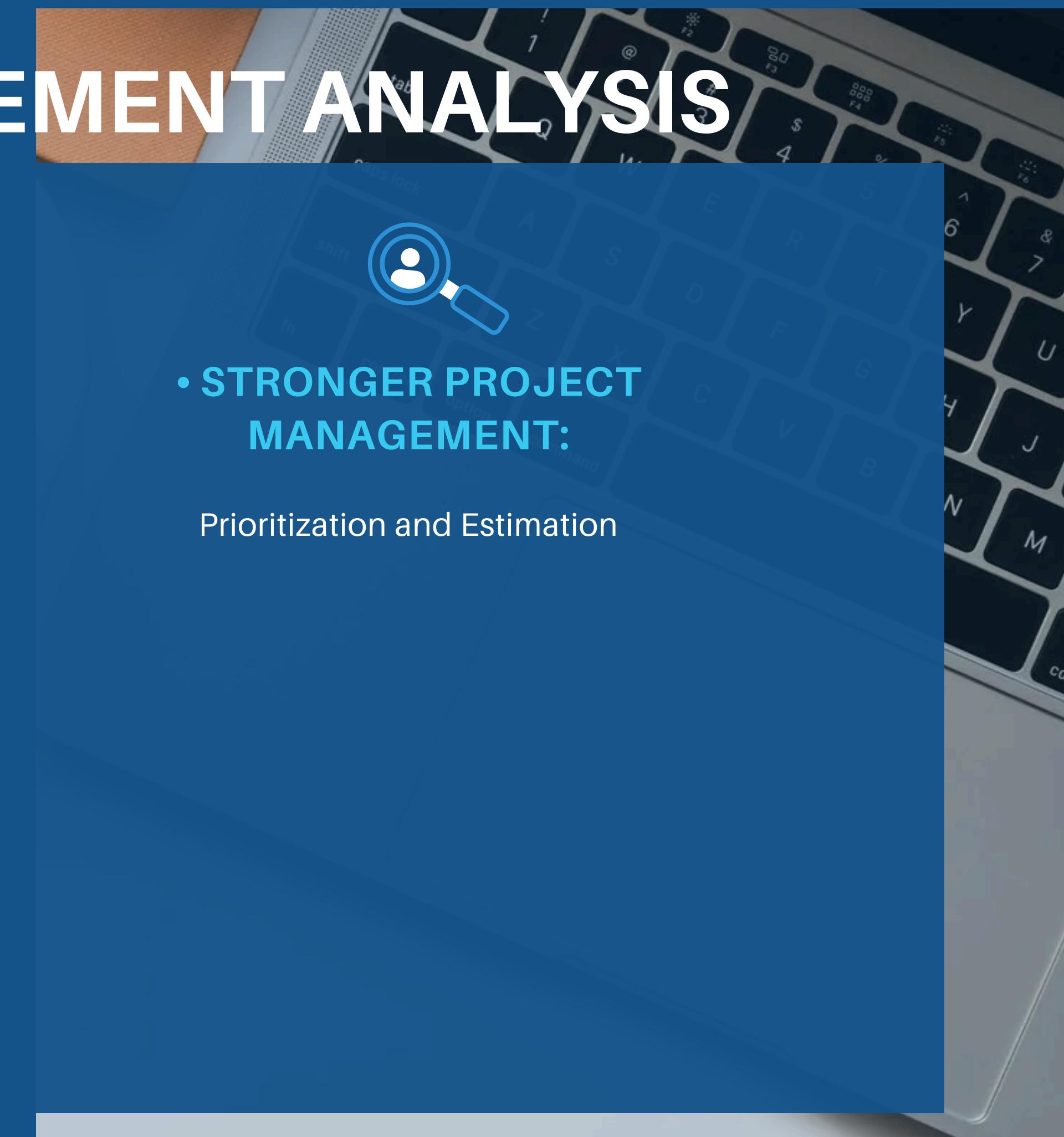
Clear Project Scope

Feasibility Assessment



- **STRONGER PROJECT MANAGEMENT:**

Prioritization and Estimation





6. CONCLUSIONS

The emphasis on the importance of thorough requirement analysis and documentation as the foundation for a successful mobile application. It stresses the need to understand stakeholder needs, both functional and non-functional requirements. Additionally, it mentions the use of use case diagrams to visualize core functionalities, aiming to create a valuable tool for users seeking to archive and recover their belongings..

THANK YOU

