

# **Phase 1: Problem Definition and Design Thinking**

Develop an efficient image recognition system using IBM Cloud Visual Recognition that can accurately classify a wide range of objects and scenes from input images, and explore its potential applications across various industries, with a focus on enhancing automation, security, and decision-making processes.

## **Problem Definition:**

- The problem at hand involves the development of an efficient image recognition system utilizing IBM Cloud Visual Recognition technology.
- This system must possess the capability to accurately classify an extensive array of objects and scenes within input images.
- Additionally, the goal is to investigate and demonstrate the potential applications of this image recognition system across diverse industries.
- The primary focus of this endeavor is to advance automation, security, and decision-making processes.

## **Design Thinking:**

- Begin by understanding the needs and pain points of potential users and industries that could benefit from image recognition technology.
- Identify the key use cases where image recognition can make a significant impact, focusing on automation, security, and decision-making processes.
- The prototype should include a basic interface for users to interact with the system and test its core functionalities.
- Integrate the prototype with IBM Cloud Visual Recognition technology and develop a robust backend infrastructure for efficient image processing.
- Deploy the image recognition system in real-world environments across the selected industries.
- Maintain an ongoing feedback loop with users and stakeholders to gather insights, identify evolving needs, and make iterative improvements to the system over time.