

IntelliCup - Smart Liquid Tracking System

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“Revolutionizing Liquid Identification and Tracking”

What is IntelliCup?

IntelliCup is a **smart** cup that automatically **identifies** and **tracks** liquids.

Uses **sensor-based classification** and **real-time insights** via a mobile app.

Applications: **Health tracking, food safety, personalized recommendations.**

Functional Requirements

Consumption

Tracking:

Logs daily liquid intake and monitors hydration.



Liquid

Identification:

Detects liquids using predefined sensor parameters.



User Dashboard:

Displays identified liquids, history, and recommendations.



Goal System:

Allows users to set and track hydration goals.



Non-Functional Requirements

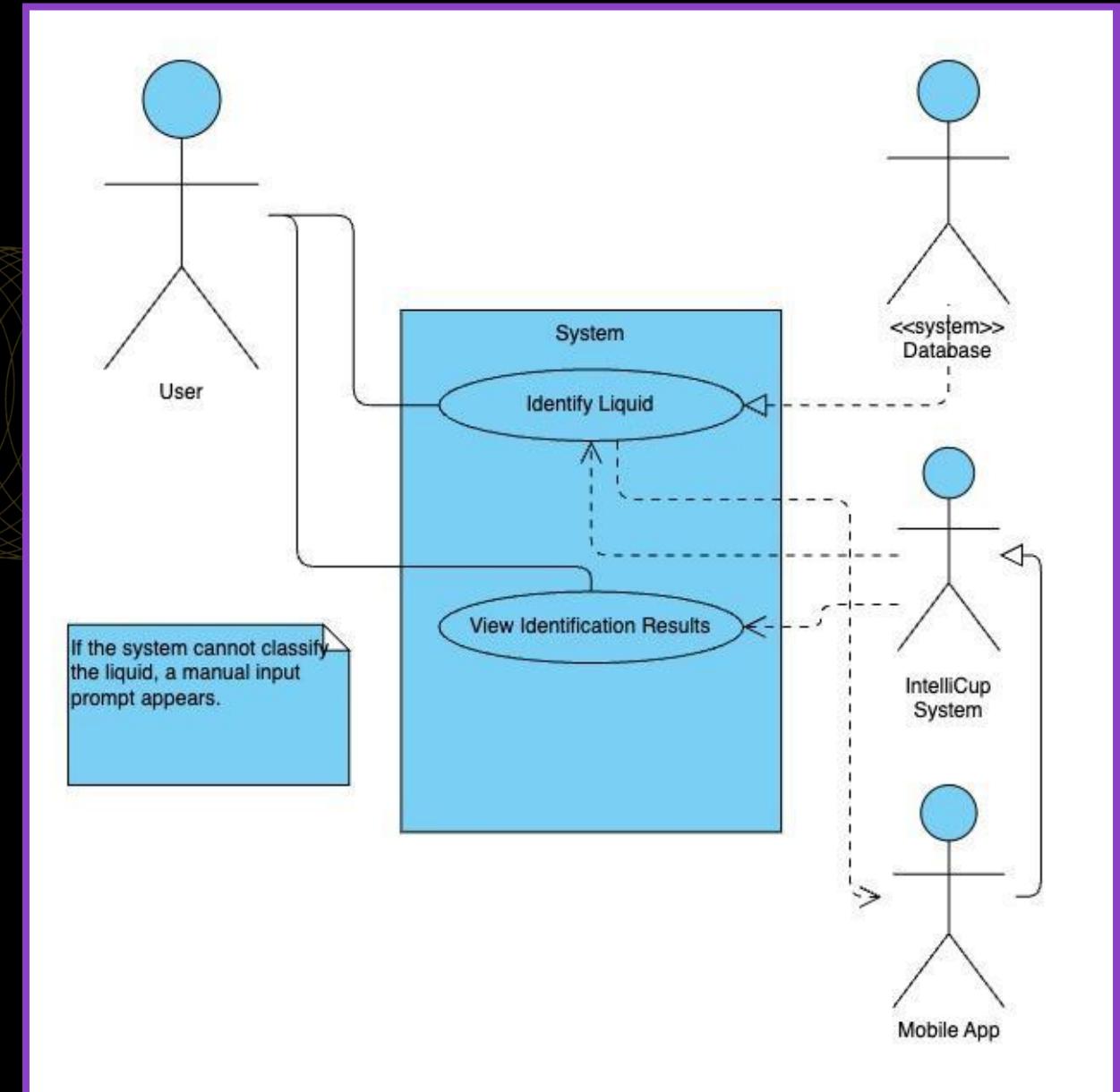
Security: Data encryption and secure cloud storage.

Performance: Liquid classification within 3 seconds.

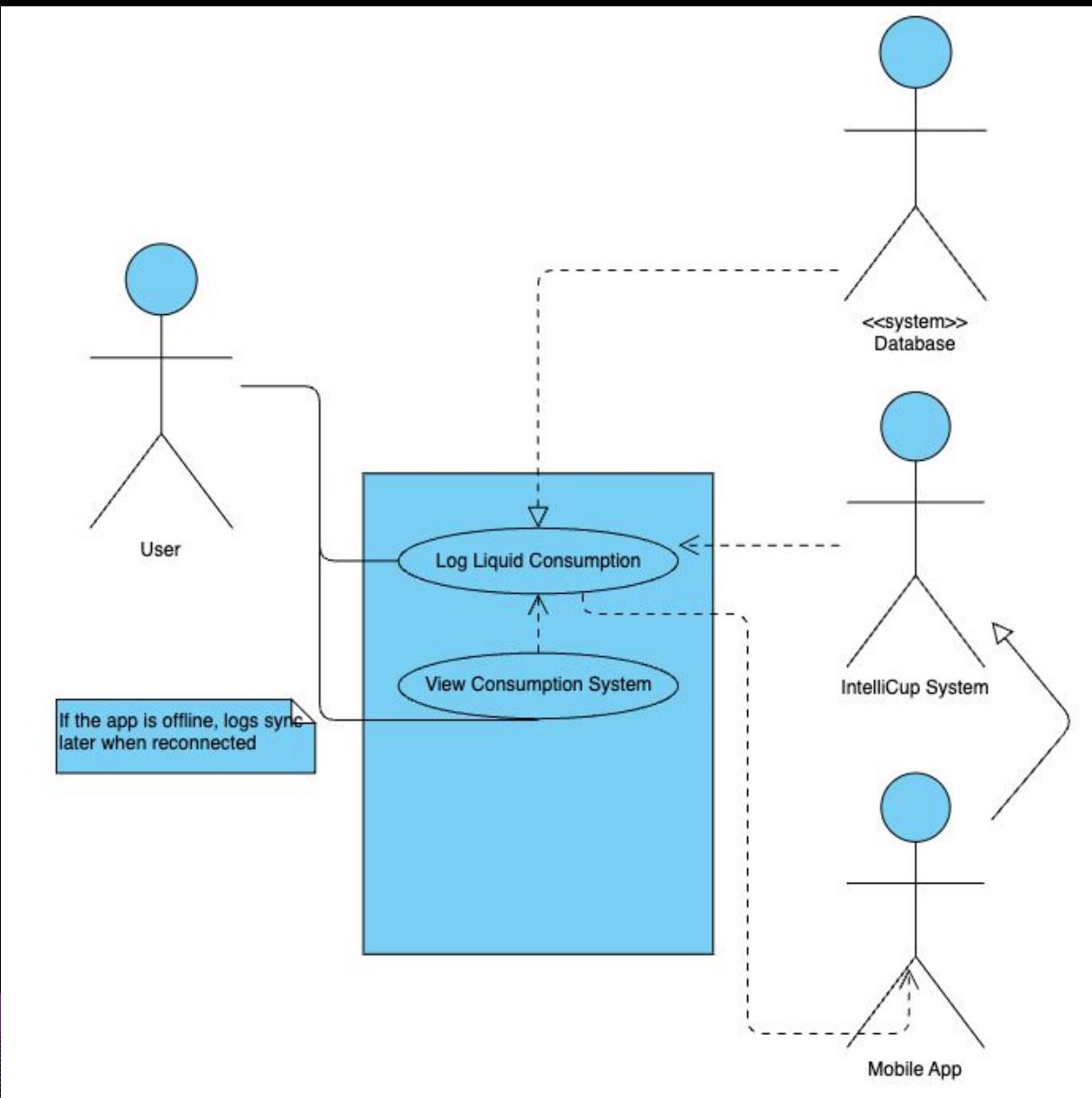
Usability: Simple, intuitive interface with accessibility features.

Use Case & Use Case Diagram

3.1.1 Liquid Identification Use Case: Detects and classifies liquids.

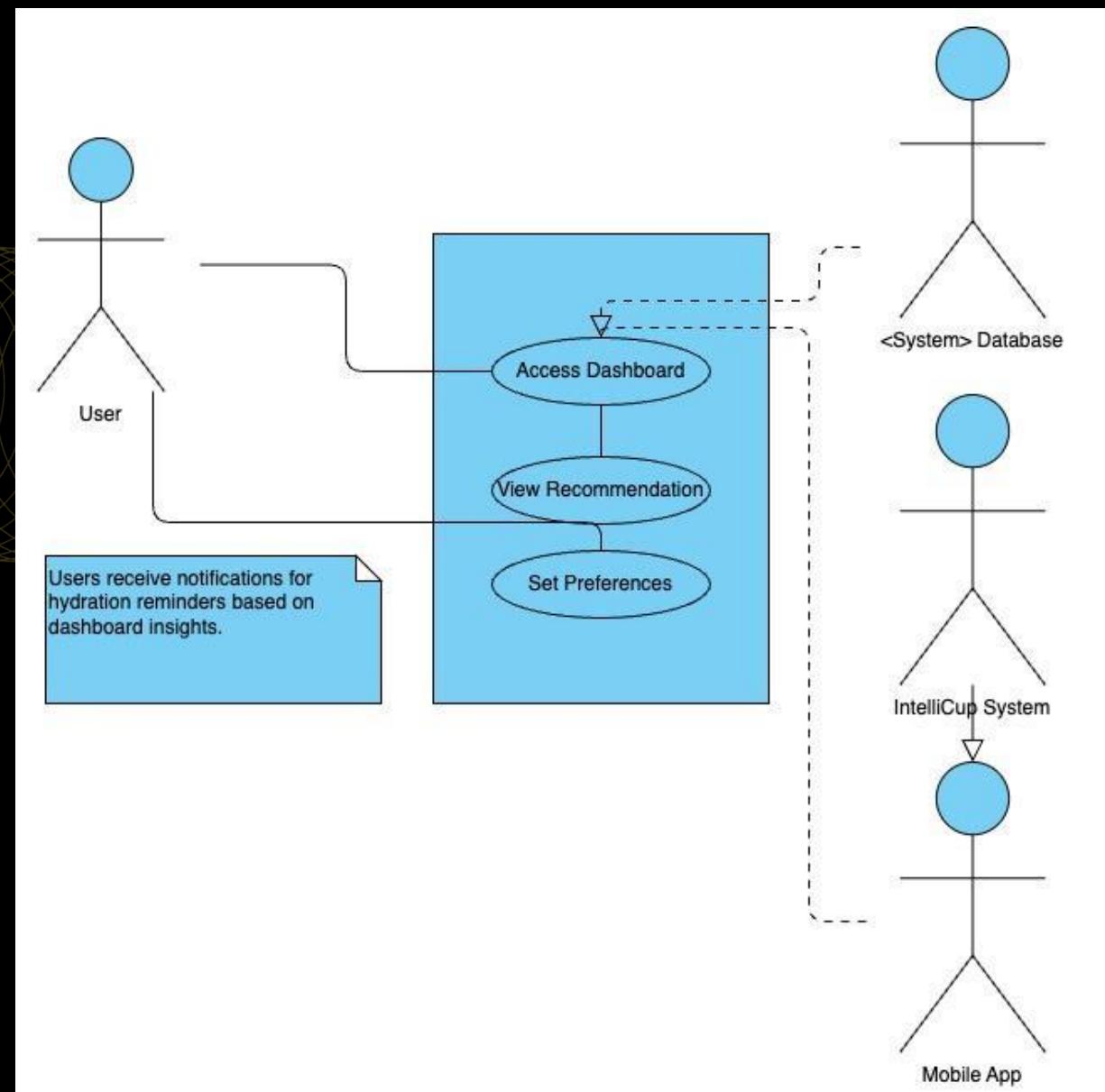


3.1.2 Consumption Tracking Use Case: Logs consumption data and updates records.

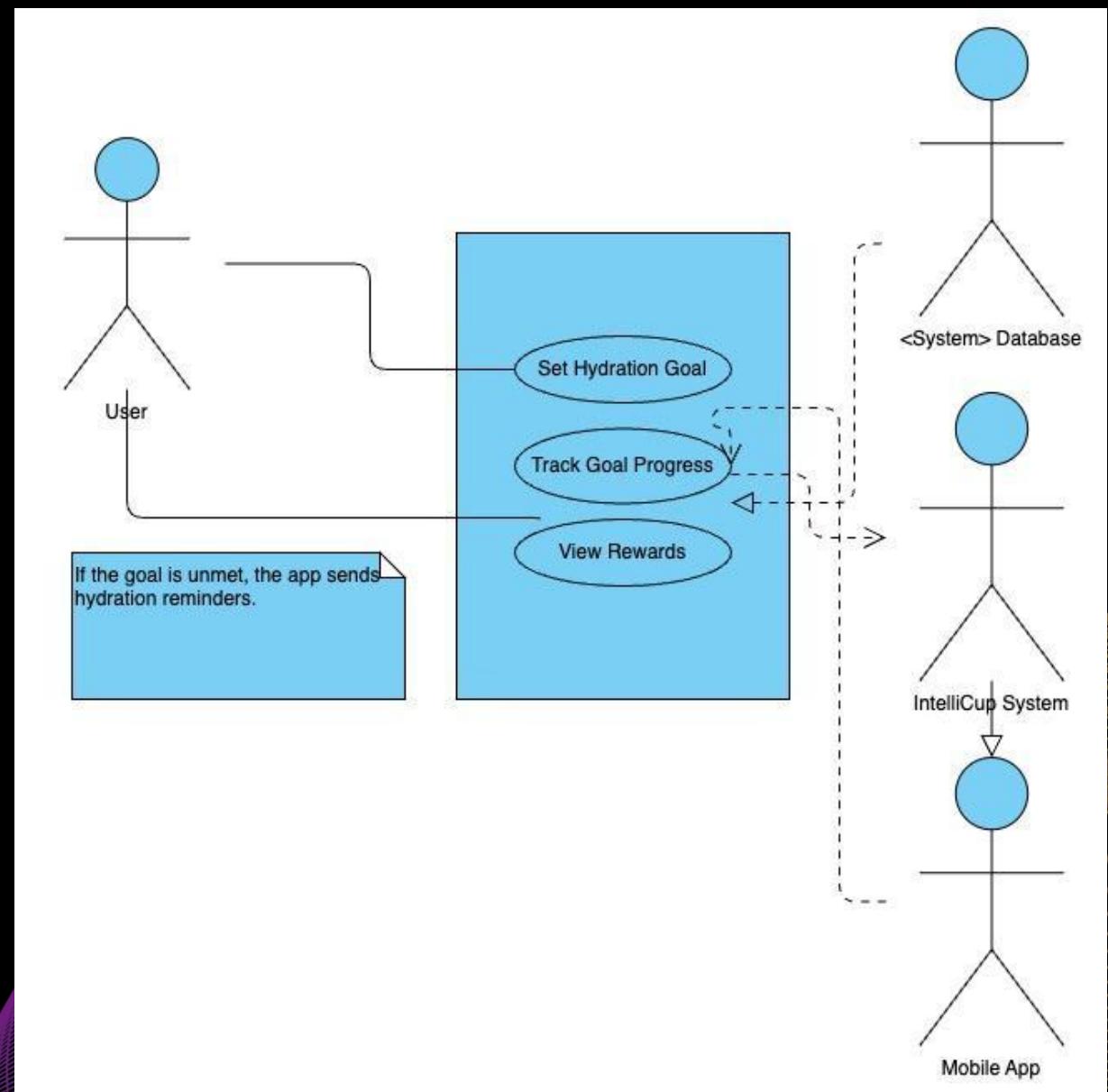


Use Case & Use Case Diagram

3.1.3 User Dashboard Use Case: Displays insights and recommendations.



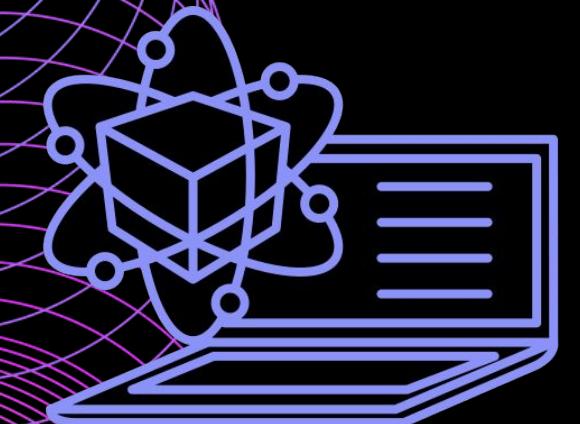
3.1.4 Goal System Use Case: Allows users to set and track hydration goals.



System Constraints

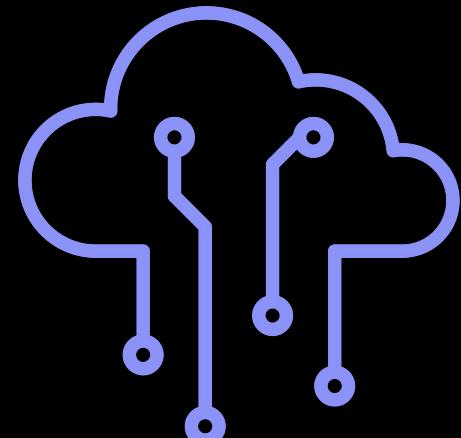
Hardware Constraints:

Uses simulated sensor
data for now.



Network Constraints:

Requires internet for cloud
data storage.



Development Constraints:

React Native, Firebase,
GitHub version control.

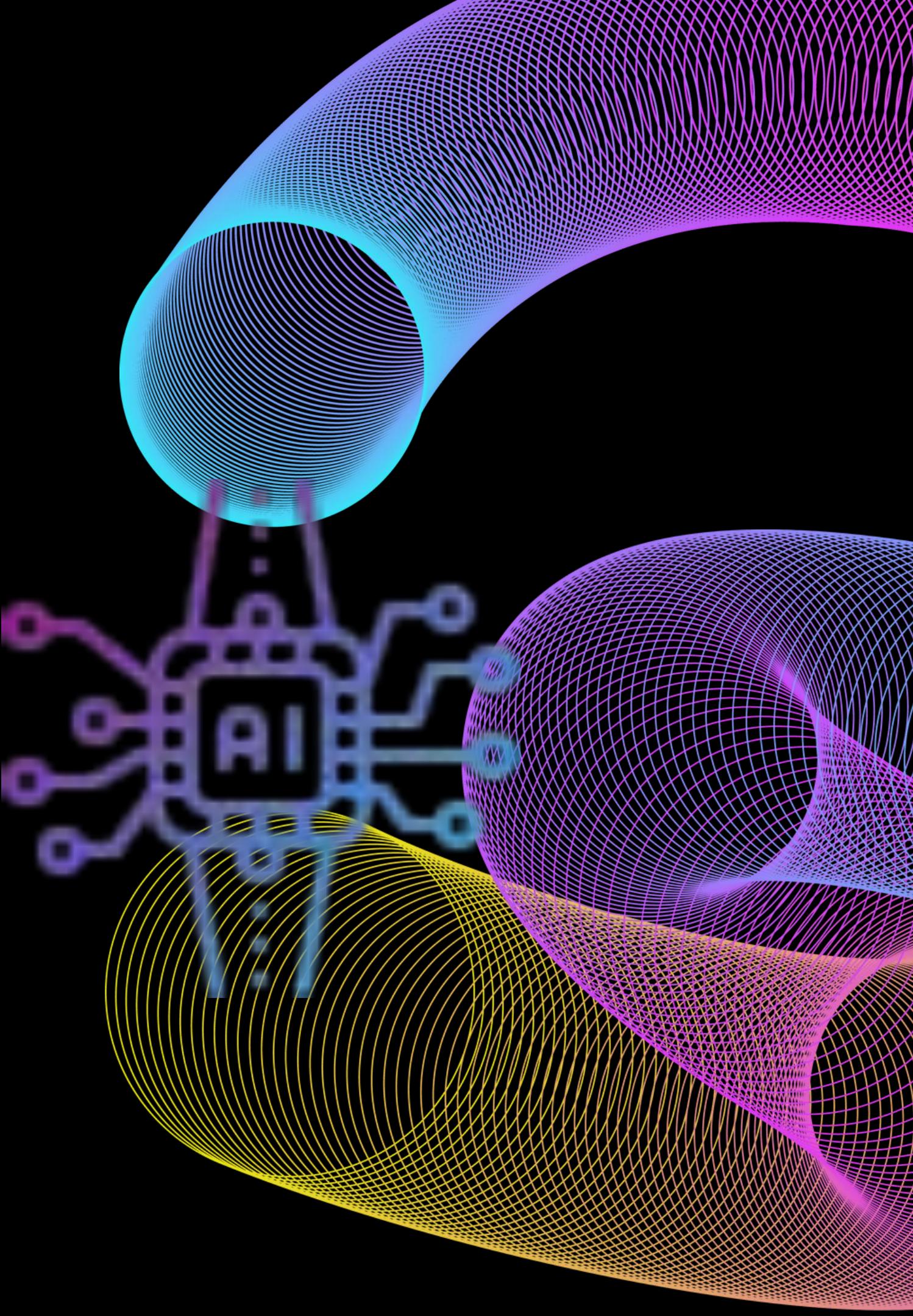


Evolutionary Requirements

AI-based Liquid Classification: Improves accuracy.

Smart Home Integration: Works with Alexa, Google Home.

Health Monitoring Features: Alerts for dehydration risk.



Conclusion

IntelliCup is a smart liquid tracking system for hydration and food safety.

Built with cutting-edge technologies and AI-powered future potential.

The background features a series of overlapping, wavy, grid-like lines in various colors including yellow, orange, pink, purple, blue, and teal, set against a black background.

THANK YOU!
ANY
QUESTIONS?