

GRADUATION PROJECT

Modeling and Development of a Web and Mobile Fleet Management Application with an Interactive Dashboard

Sawekji

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Academic Year: 2023/2024

TABLE OF CONTENT

1. INTRODUCTION

2. PROBLEMATIC & SOLUTION

3. SPECIFICATION OF REQUIREMENTS

4. ADOPTED METHODOLOGY

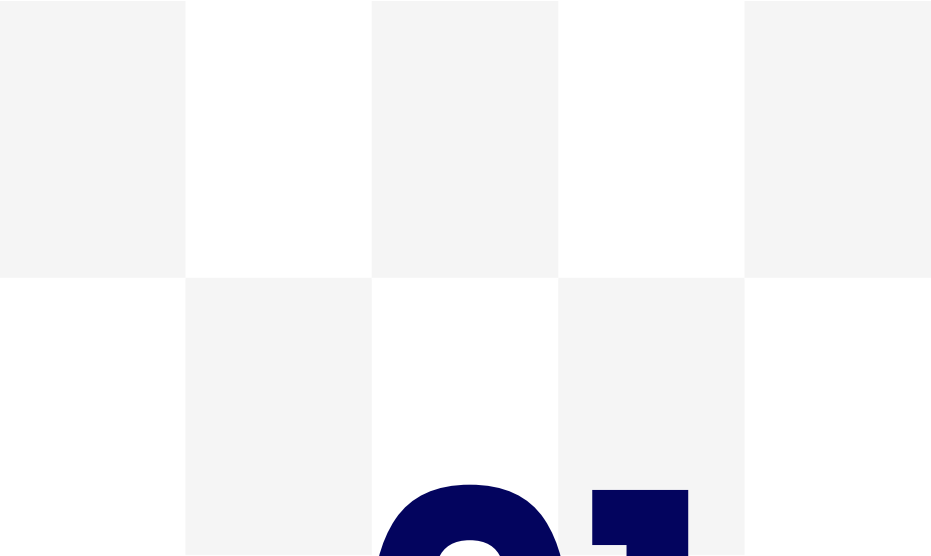
5. SYSTEM DESIGN

6. SYSTEM ARCHITECTURE

7. DATA ANALYSIS

8. REALIZATION

9. CONCLUSION & PERSPECTIVE



01

INTRODUCTION



ABOUT DIGITAL IDENTITY

Digital Identity is a Tunisian company founded in 2019 specializing in consulting and developing technological solutions.

Services

- Audit and Consulting
- Information Systems Implementation
- Application Development
- Information Technology Infrastructure

SUBJECT



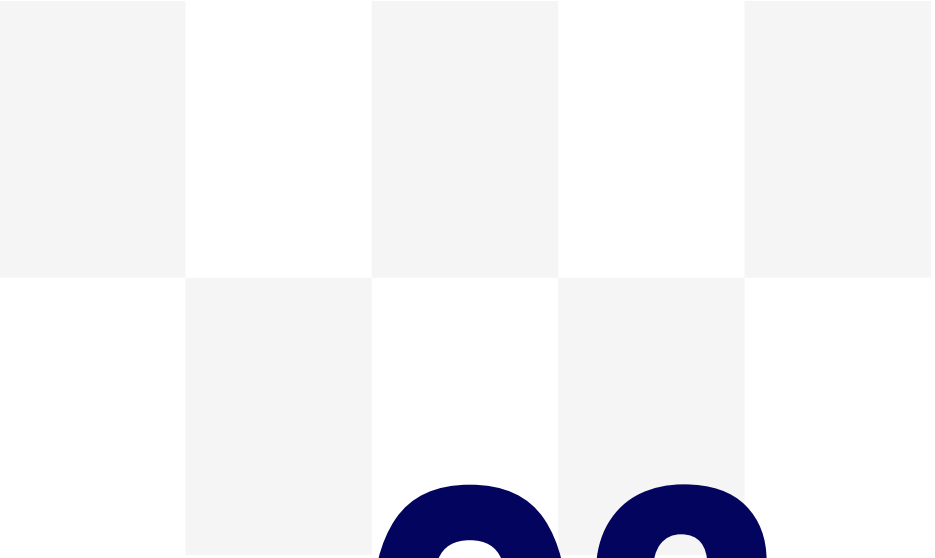
Comprehensive Fleet Management System: Developed as both a mobile and web application.



CMMS Core: Computerized Maintenance Management System tailored for fleet management.



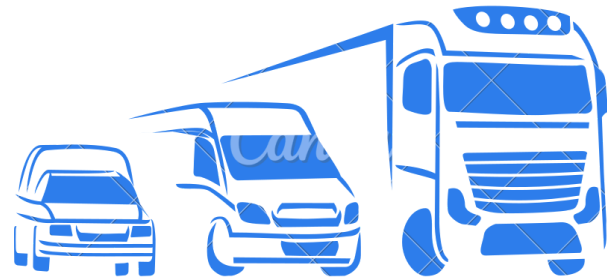
Personalized Dashboard: Optimized for effective fleet operations.



02

**PROBLEMATIC &
SOLUTION**

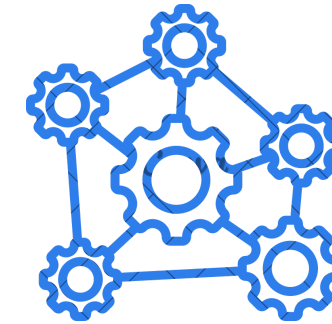
PROBLEMATIC



Current Context of
Fleet Management



Business Needs



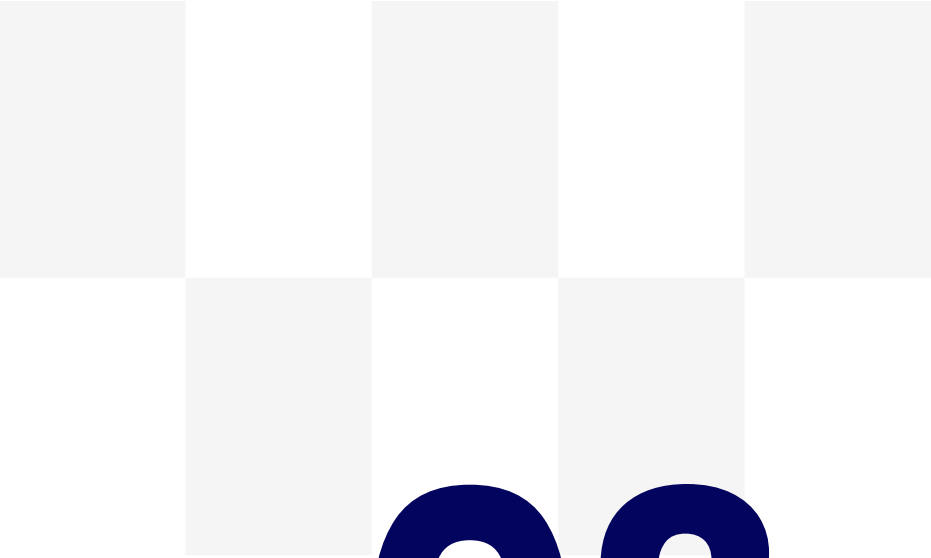
Complexity of Fleet
Management



Goals of an Integrated
Platform

SOLUTION

- Provide an Advanced and Integrated Platform
- Implement Real-Time Monitoring and Optimization
- Achieve Cost Reduction and Efficiency Improvement
- Utilize Business Intelligence and Data Analysis
- Ensure Adaptability and Customization



03

SPECIFICATION OF REQUIREMENT

EXISTING STUDY



SuiviDeFlotte.net



Quartix

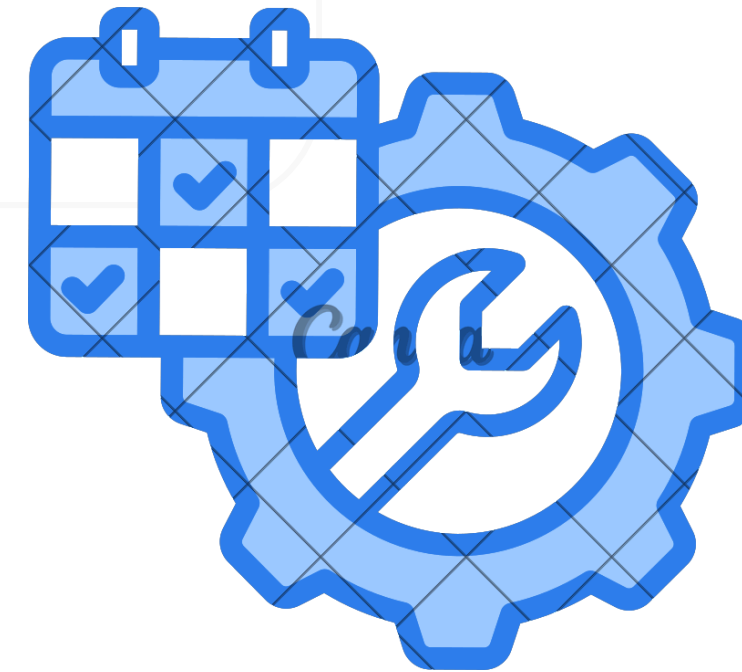


Drivvo

INNOVATIVE SOLUTIONS



Real-time Optimization
and Route Planning



Advanced Predictive
Maintenance Scheduling

ACTORS

We have 4 actors



Admin



Supervisor



Driver



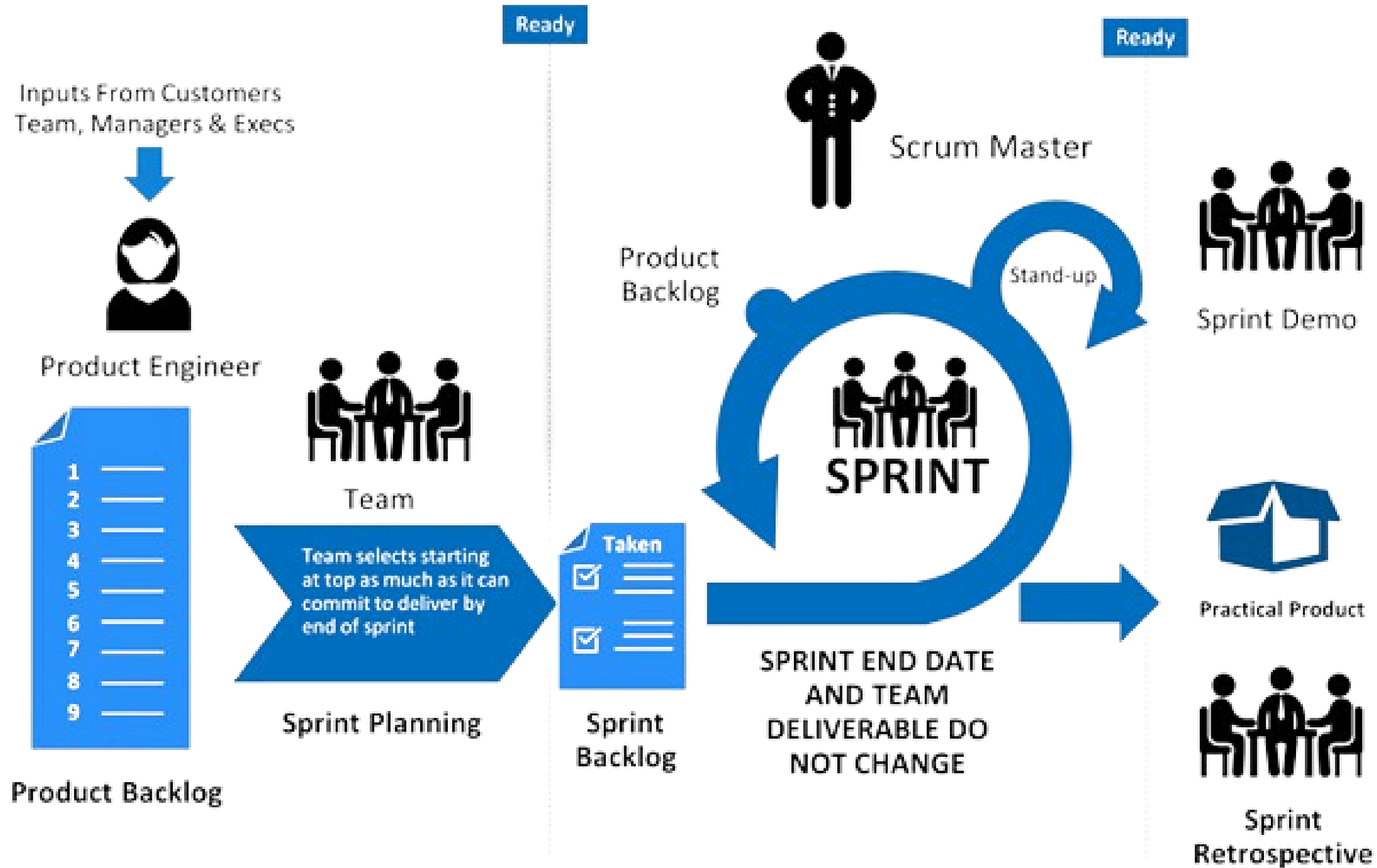
mechanic



04

ADOPTED

METHODOLOGY



ROLE ASSIGNMENT



Product Owner

Digital Identity



Development Team

Balti Firas and Mimouni Med Aziz



SCRUM Master

Mr Baha jaouane

SPRINT BREAKDOWN

Sprint 1 : Access management

- Authentication
- Logout
- Edit profile
- Users management
- Role management

Sprint 2 : Task management

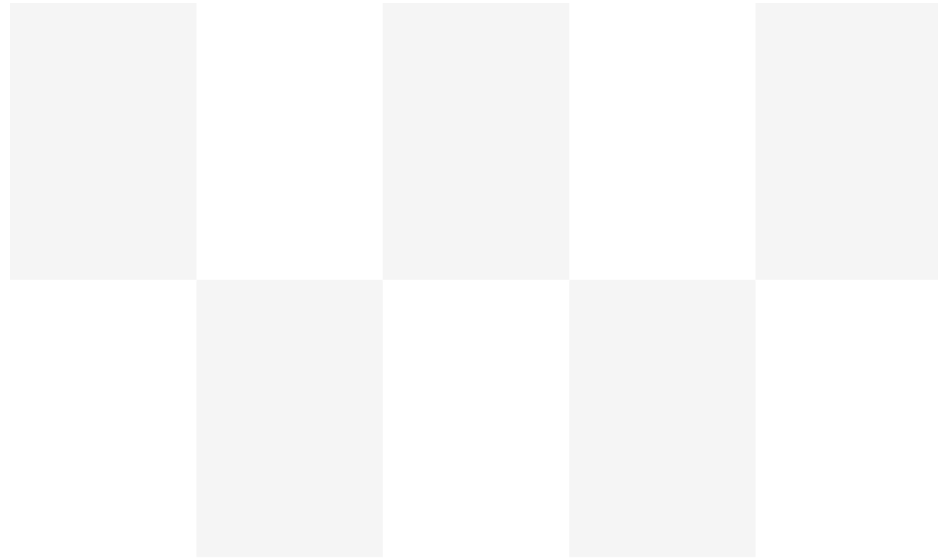
- Vehicle management
- Task management
- Consultation of checklists
- Task consultation

Sprint 3 : monitoring and reporting

- Notifications
- Task tracking
- Report
- Trip planning

Sprint 4 : Dashboard

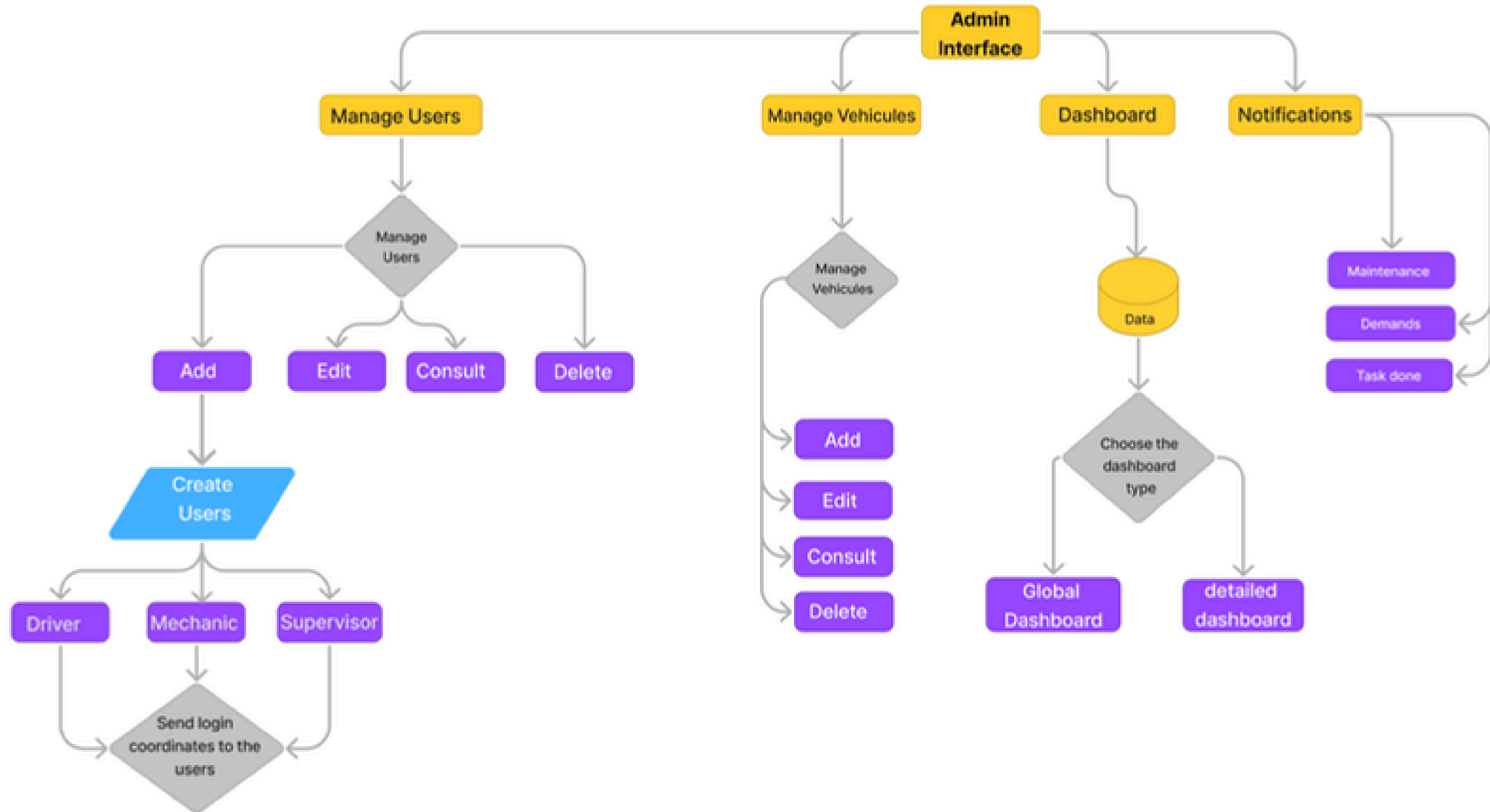
- Admin dashboard
- Supervisor dashboard
- Driver dashboard
- Mechanic dashboard



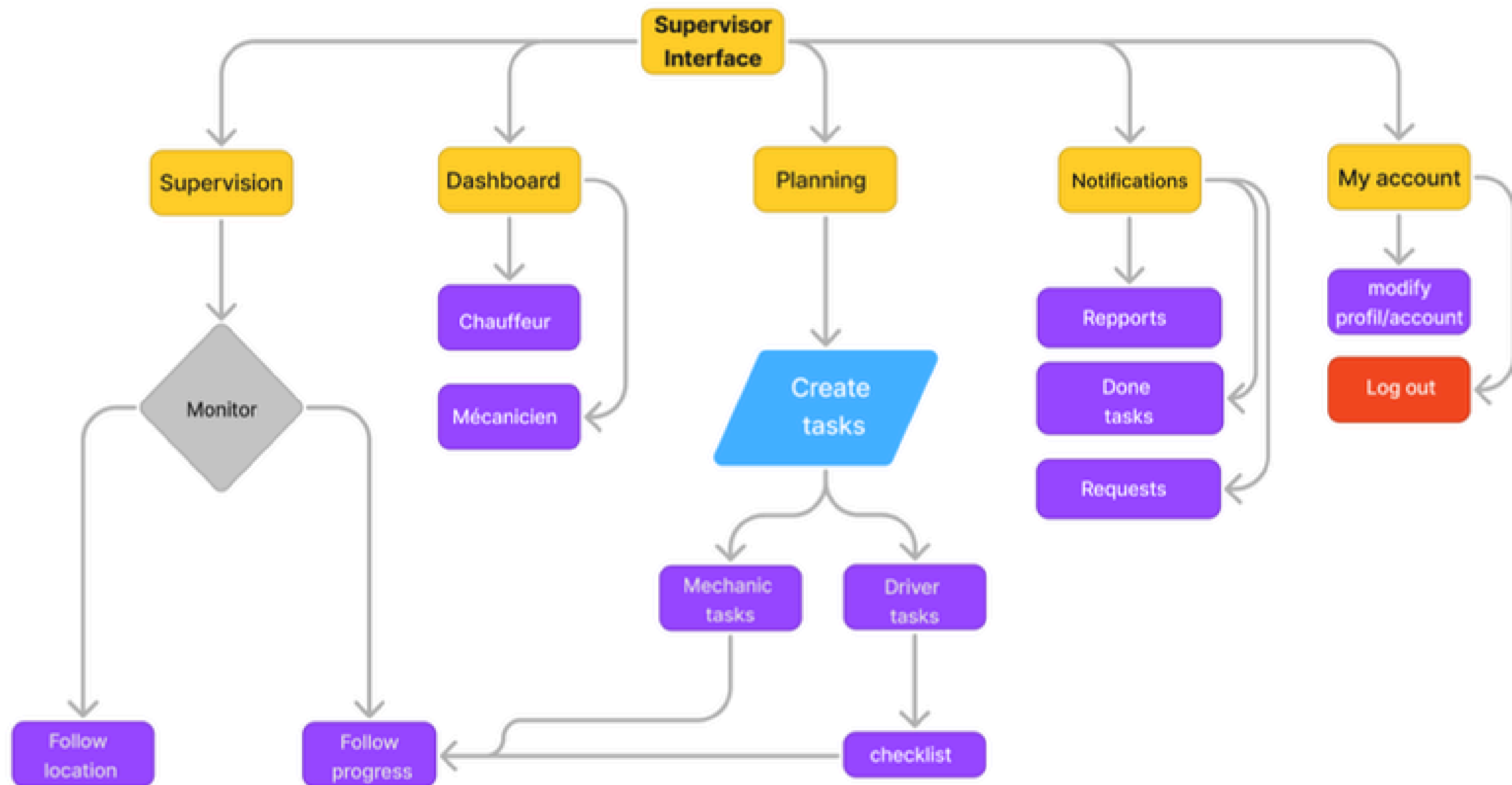
05

SYSTEM DESIGN

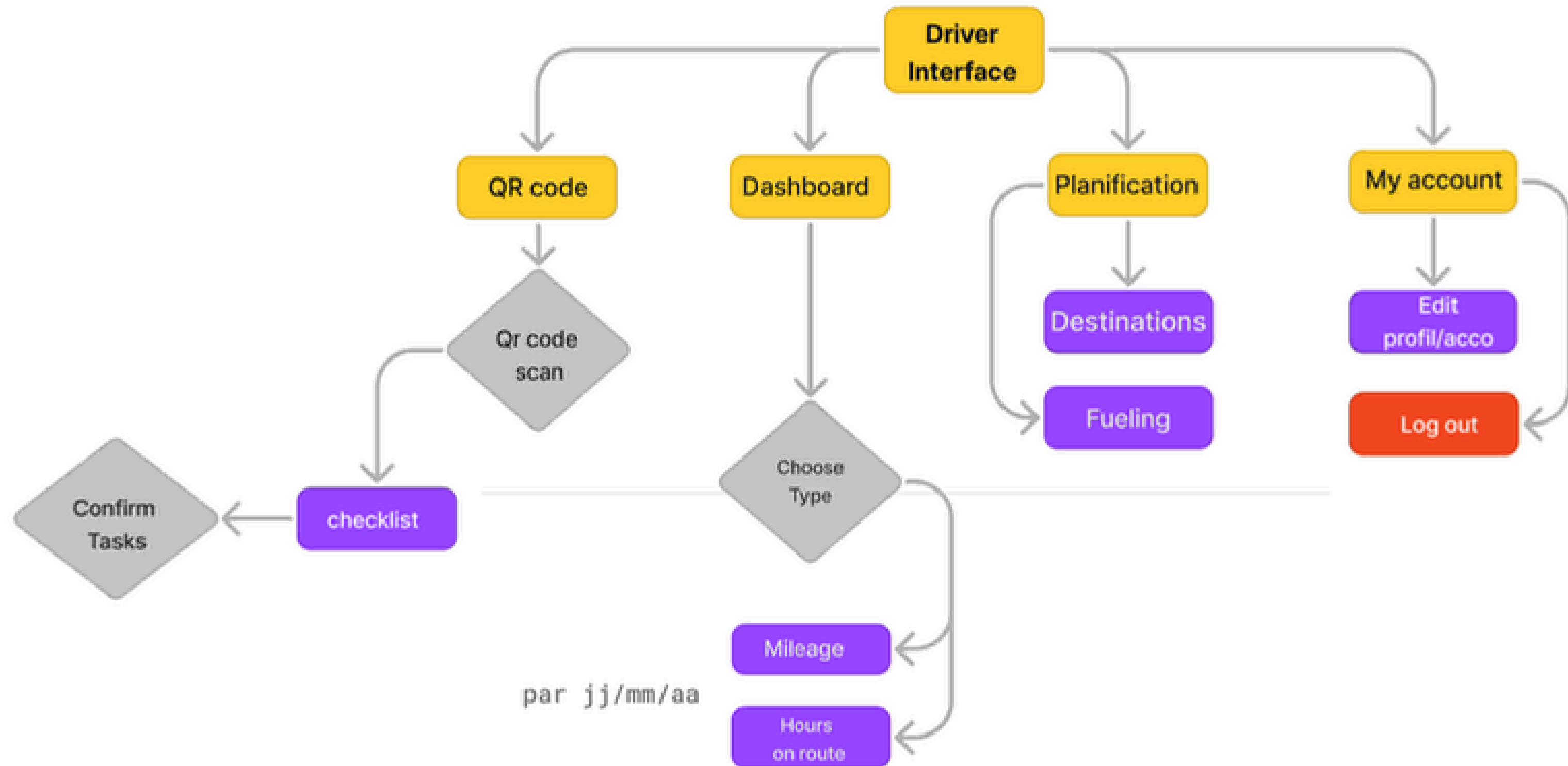
ADMIN USER FLOW



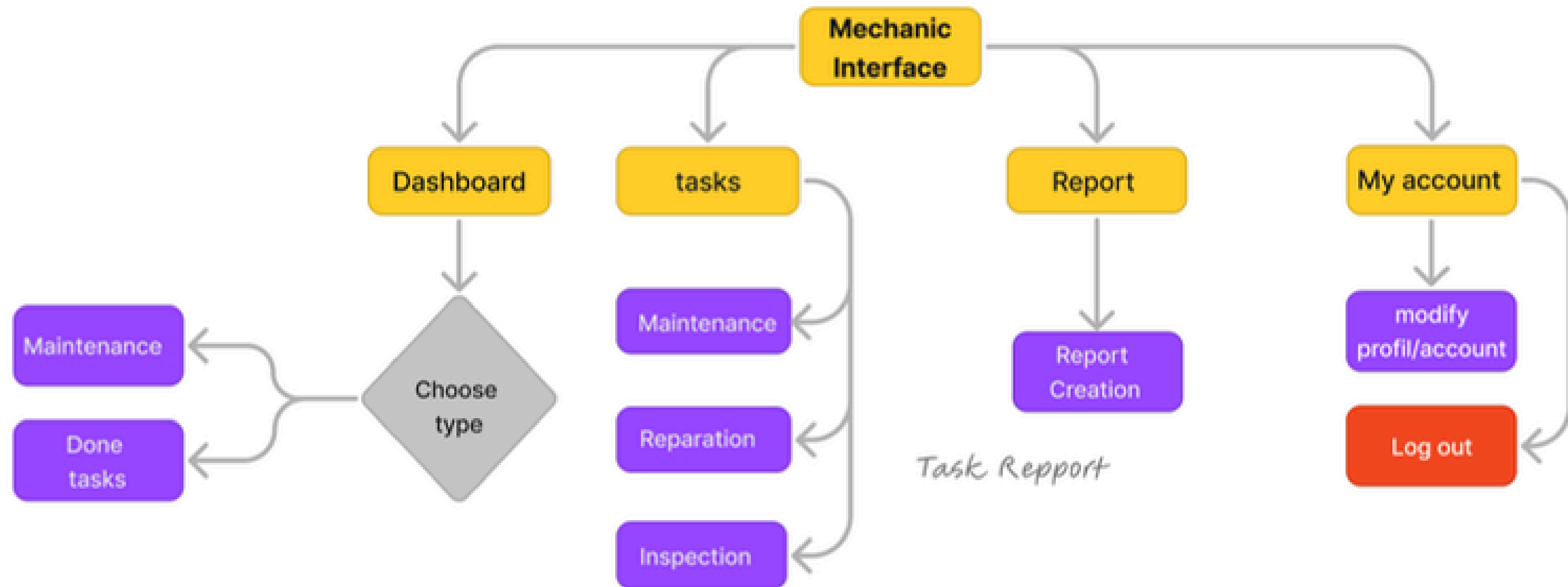
SUPERVISOR USER FLOW



DRIVER USER FLOW



MECHANIC USER FLOW



USE CASE DIAGRAM





A decorative graphic in the top-left corner consisting of a 3x3 grid of squares. The squares in the first row are light gray, and the squares in the second row are white. The squares in the third row are light gray.

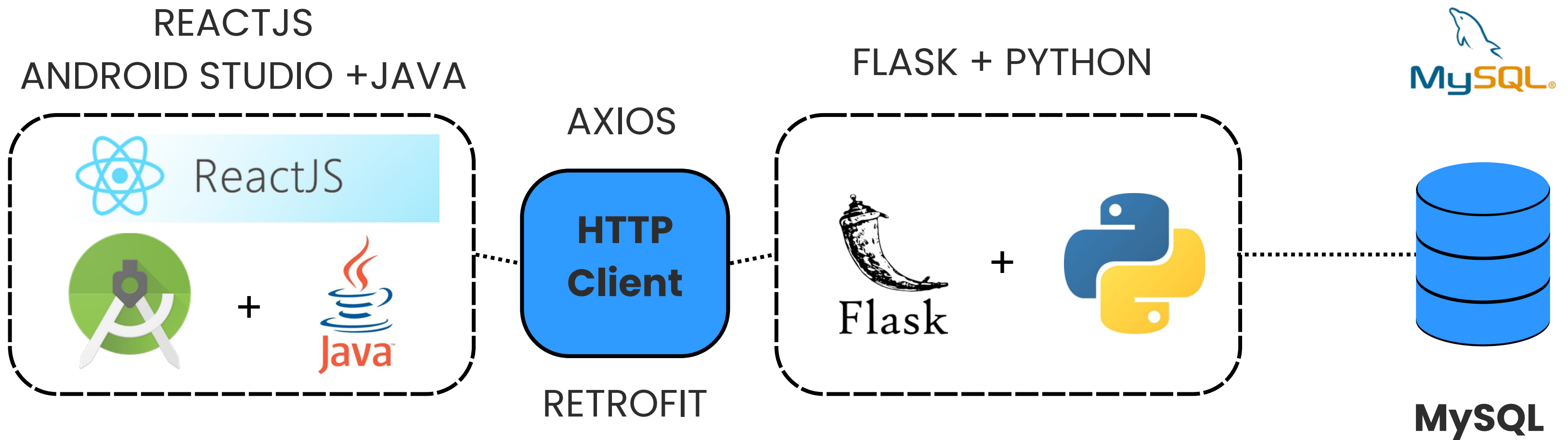
06

SYSTEM

ARCHITECTURE

A solid blue rounded rectangle located on the right edge of the slide.

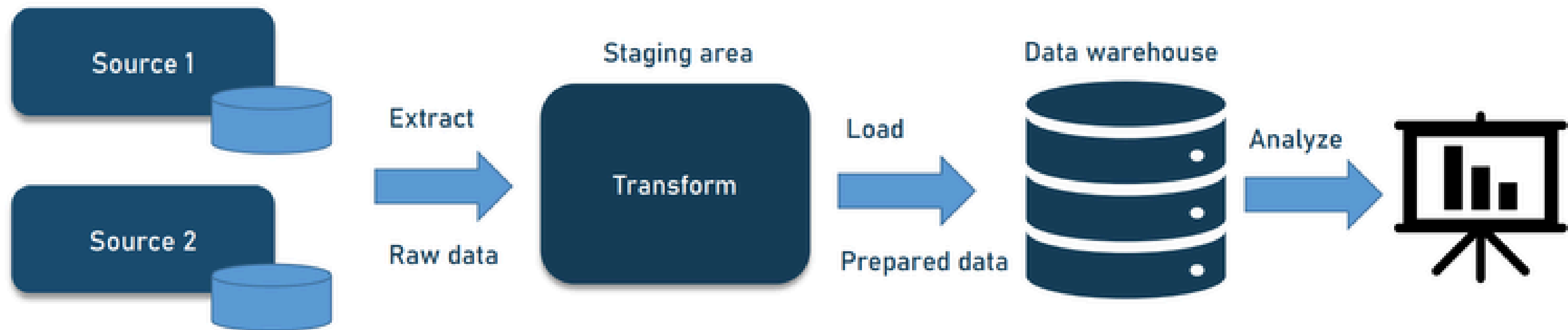
ARCHITECTURE



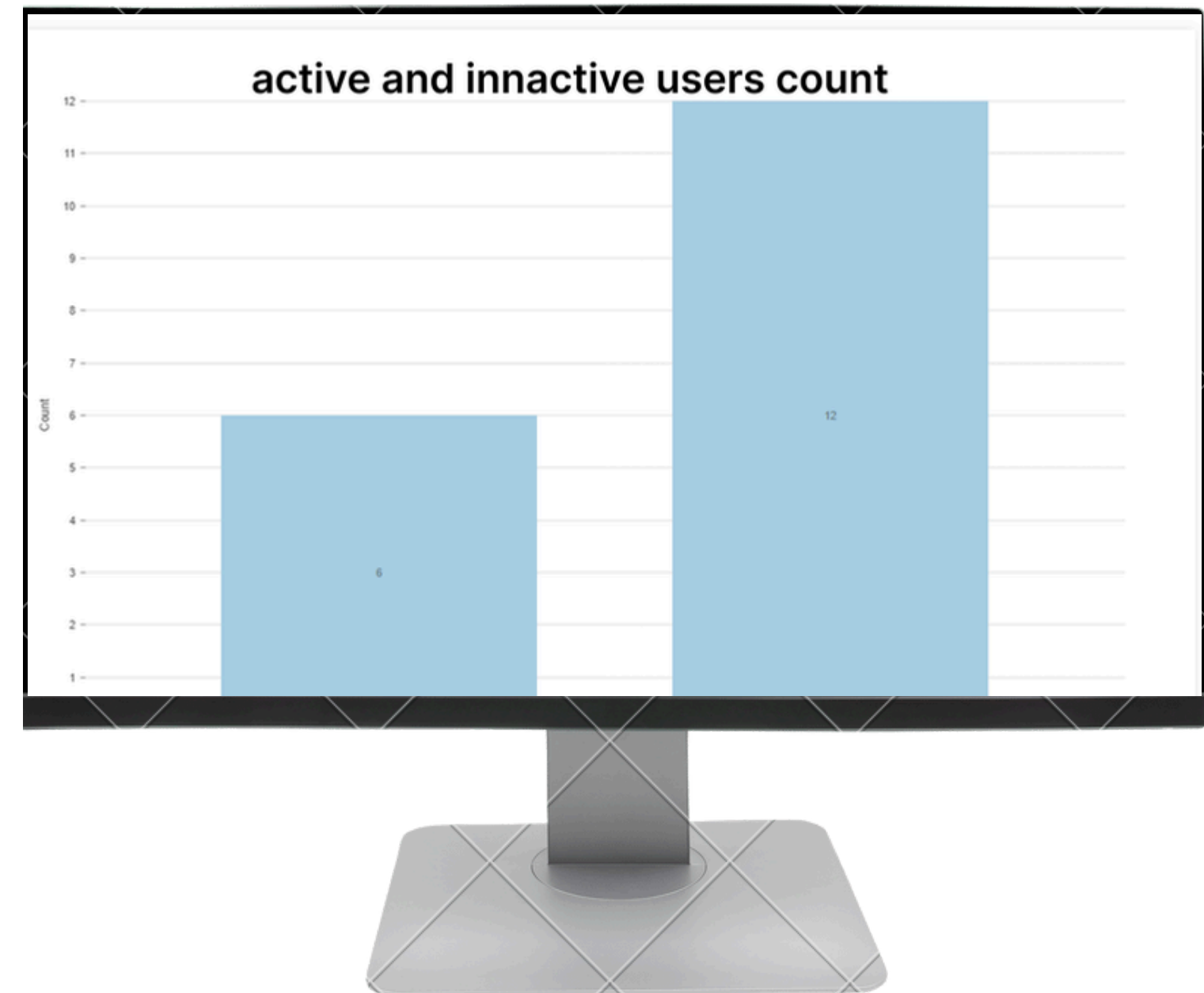
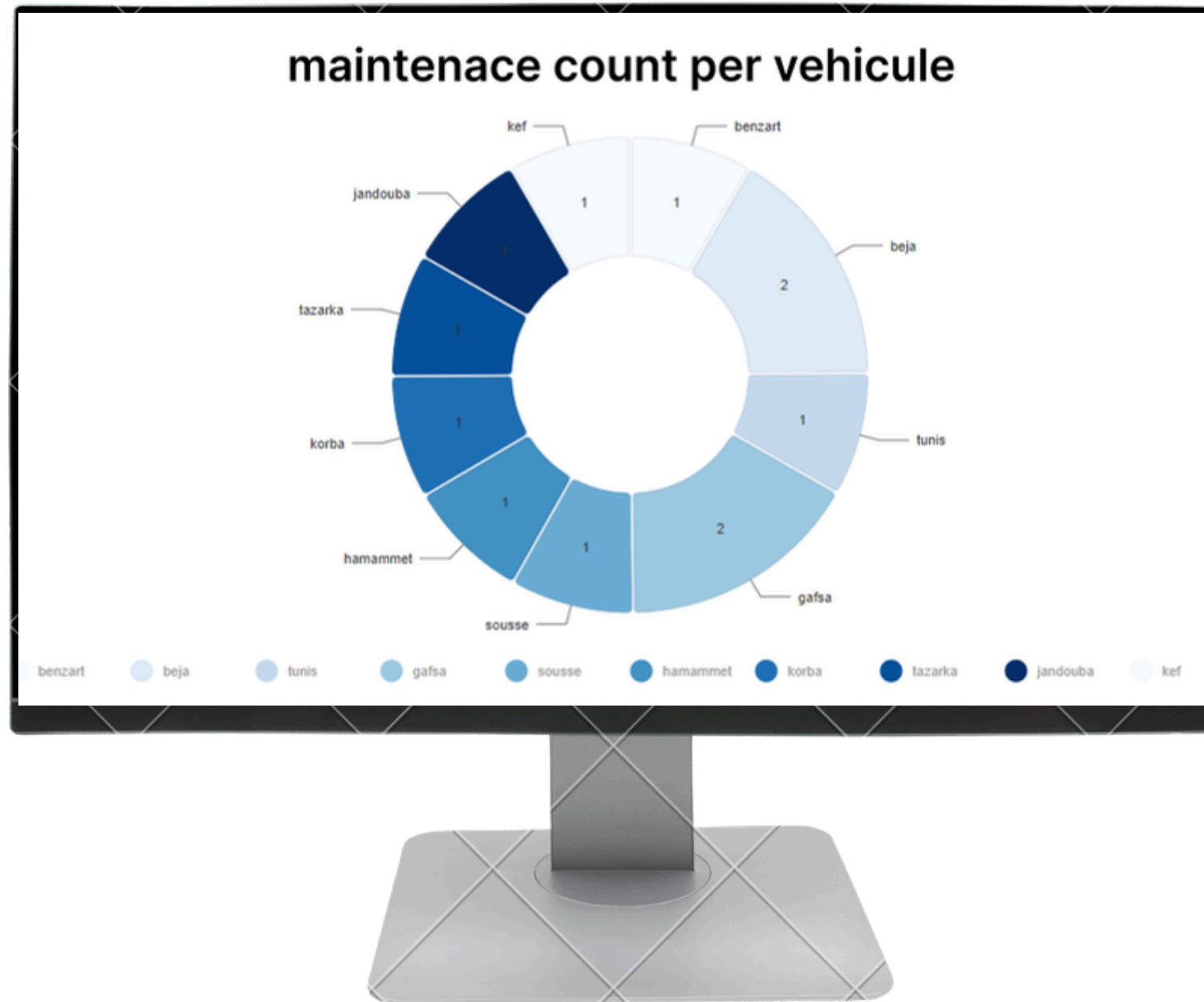
07

DATA ANALYSIS

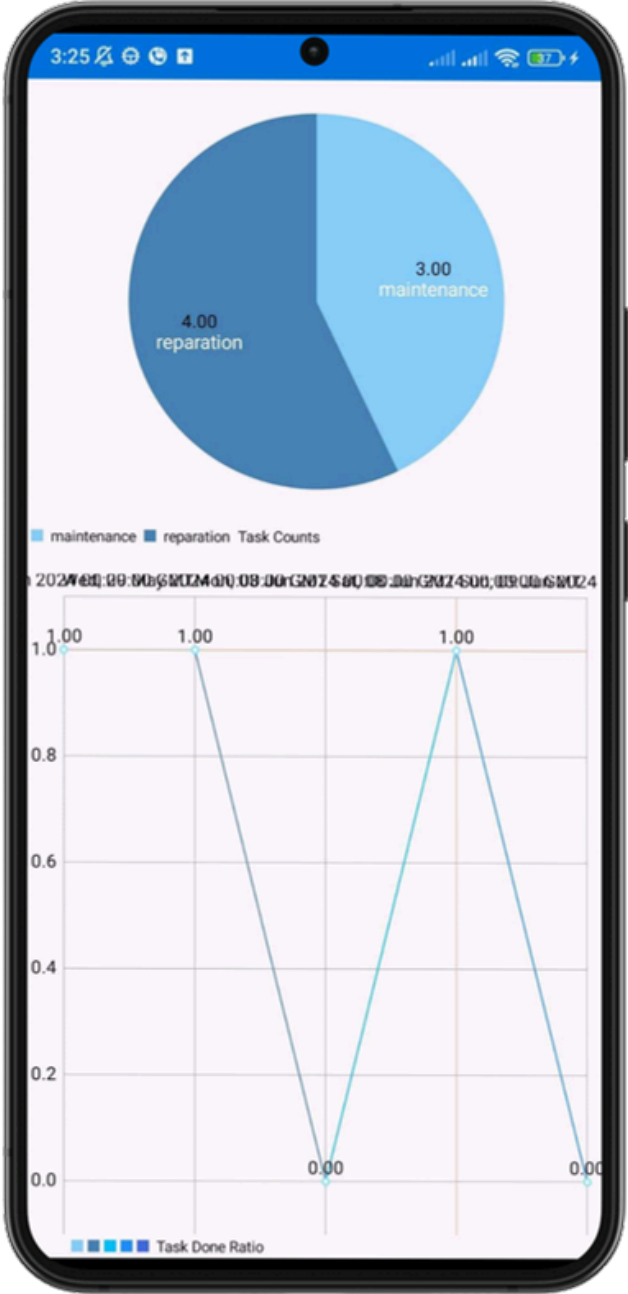
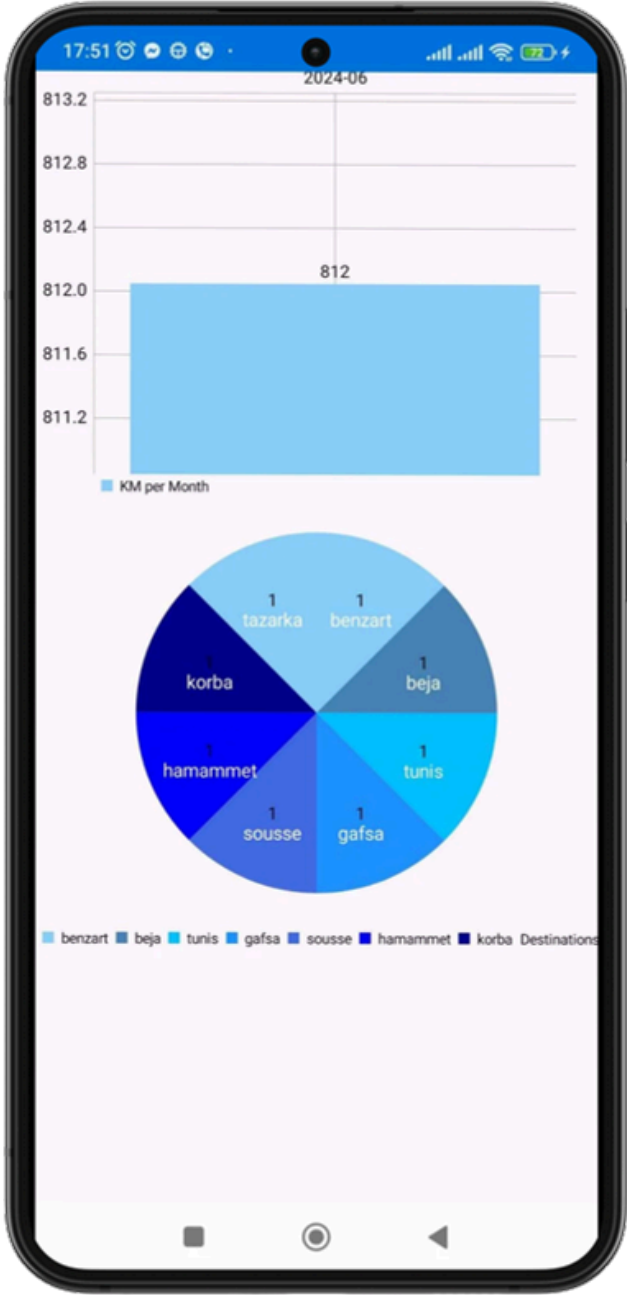
ETL PROCESS



WEB DASHBOARDS



MOBILE DASHBOARDS





08

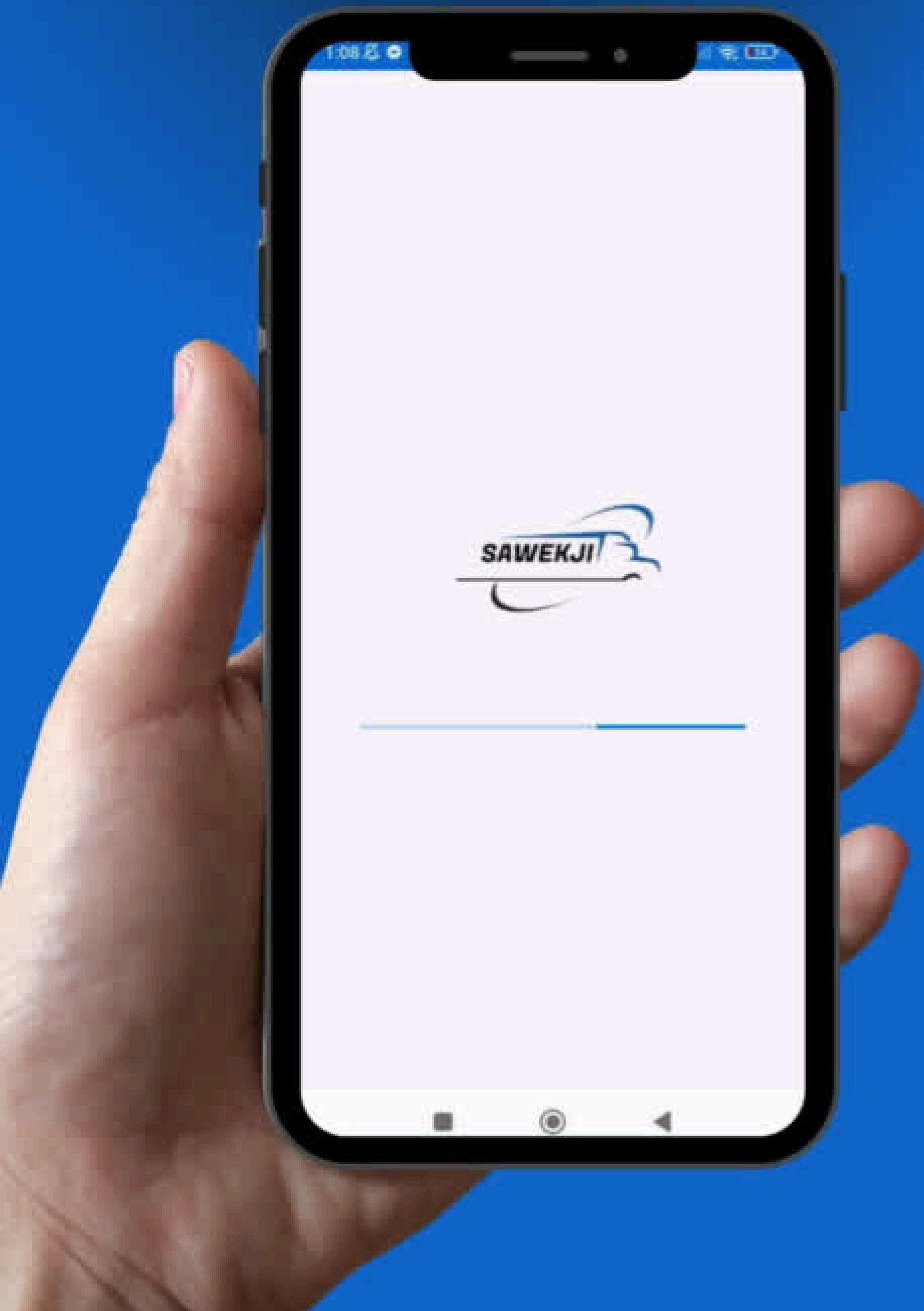
REALIZATION



SOFTWARE ENVIRONMENT



MOBILE APP DEMO



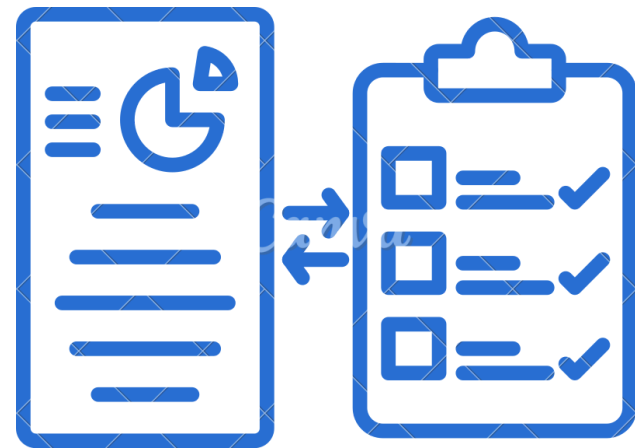
SAWEKJI Mobile App



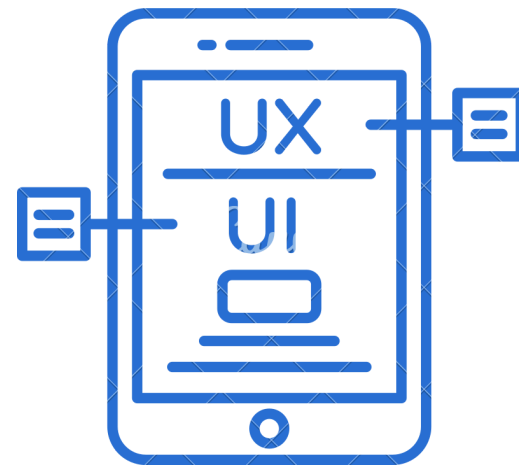
09

CONCLUSION & PERSPECTIVE

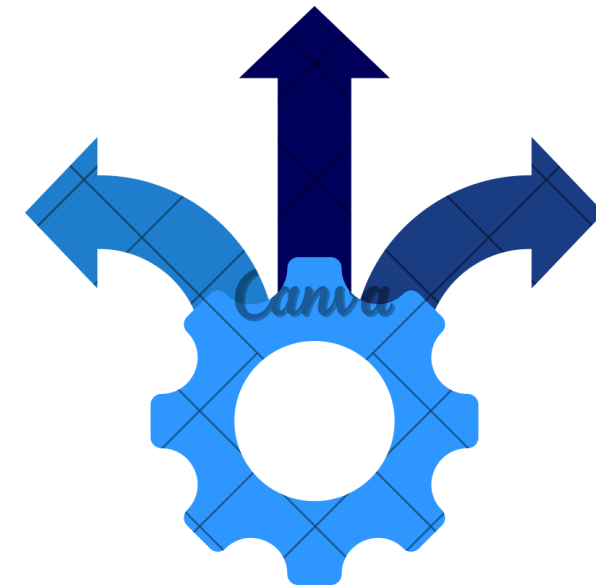
WORK DESCRIPTION AND CRITICISM



optimized
workflow



Seamless user
experience

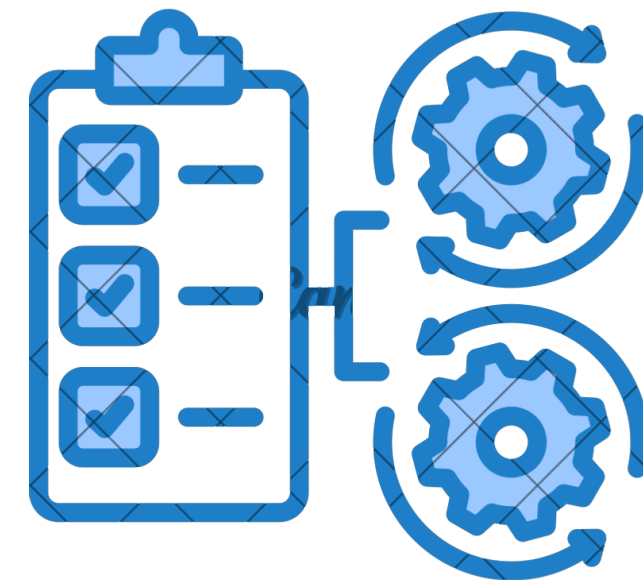


Improvement
Opportunities

PERSPECTIVE



Integration of Artificial
Intelligence



Task Automation

WEBOGRAPHY

- ***Suivideflotte.net***

<https://www.suivideflotte.net/> (consulté le 15/02/2024)

- ***Quartix***

<https://www.quartix.com/> (consulté le 15/02/2024)

- **Drivvo**

<https://www.drivvo.com/en> (consulté le 15/02/2024)

- **Scrum methodology**

<https://www.sketchbubble.com/en/powerpoint-scrum-process.html> (consulté le 06/03/2024)

- **ETL process**

<https://www.altexsoft.com/blog/data-pipeline-components-and-types/> (consulté le 04/05/2024)



THANK YOU

