

# Scarabé Platform Requirements

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## 1 Introduction

The Scarabé platform is an internal website designed to facilitate the management of vehicles and equipment within a company. It aims to streamline operations by providing tools for authentication, reservations, pre-checks, malfunction reporting, notifications, advertisements, and support. The platform is developed using React JS and Tailwind CSS for the frontend, ensuring a modern and responsive user interface, and Django REST Framework with PostgreSQL for the backend, providing a robust and scalable foundation.

## 2 Principal Features

- 1. Authentication (Sign In):** A secure login system for all users to access the platform.
- 2. Reservation System:** Enables booking of vehicles and equipment with a calendar based interface.
- 3. Pre-Check System:** Requires users to complete mandatory checks before using assets.
- 4. Malfunctions Management System:** Allows reporting and tracking of equipment issues.
- 5. Notifications System:** Sends alerts via in-app messages, email, and WhatsApp(not sure yet) .
- 6. Advertisements:** Supports internal announcements and updates.
- 7. Support and Contact:** Provides channels for user assistance and communication.

## 3 Users

- 1. Admin (Super Manager):** Has full control over the system, including account management and access to all features.
- 2. Manager:** Oversees assets and personnel, managing tools, reservations, and advertisements.
- 3. Inspector:** Performs inspections, manages pre-checks, and reports malfunctions.

## **4 Features for Each User**

### **4.1 Admin (Super Manager)**

- **Account Management:**

- Create or remove user accounts.
- View a list of all users.
- Access detailed user profiles.

- **Inherits all features available to Managers and Inspectors.**

### **4.2 Manager**

- **Login to Platform:** Secure access to the system.

- **Profile Management:**

- Update or view personal profile information.

- **Tools Management:**

- Change the state of tools (e.g., vehicles or materials) to available or out-of service.
- View a list of malfunctioning tools.
- Access detailed tool information.
- View a complete list of tools.
- View a list of available tools.

- **Reservations Management:**

- View a list of all reservations.
- Access detailed reservation information.
- Create reservations for inspectors.
- Remove or update existing reservations.

- **Advertisements:**

- Add, update, or remove internal advertisements.

### 4.3 Inspector

- **Login to Platform:** Secure access to the system.

- **Reservations:**

- View personal list of reservations.

- **Tools:**

- View a list of available tools.
- View a list of malfunctioning tools.

- **Pre-Check:**

- Access personal pre-check list
- Add or update checks before confirming a reservation.
- Decline a reservation with specified reasons.

- **Profile Management:**

- Update or view personal profile information.

- **Malfunction Reporting:**

- Report equipment malfunctions with details.

### 4.4 Common Features

- **Authentication (Login):** Secure access for all users.

- **Notifications:**

- View a list of notifications with detailed information.

- **Support and Contact:** Access support channels for assistance.