Inntri Labs
n2n Solutions

MUTU Solutions
m u t u a l i z a t i o n

INNTRI LABS
SOLUTION PROPOSAL FOR
MUTU-TRANS

Version 1.1

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ABOUT US

Inntri LABS (Pvt) Ltd is at the forefront of innovative software development, delivering tailored and cutting-edge digital solutions to businesses worldwide. Specializing in virtual environments that allow users to visualize and manage business processes with ease, our software empowers companies to make informed decisions through intuitive, real-time data visualization and seamless communication tools. With a focus on minimizing data entry and ensuring a user-friendly experience, our platform is designed by industry veterans to replicate real-life business workflows, making it accessible to users with minimal technical expertise. By offering a robust framework built on security, data integrity, and a strong computational backbone, we guarantee that our clients can focus on growth, while we safeguard their critical data.

What we do

- Enterprise Solutions - CUSTOM ERP Digitizing Business Processes
- Web Solutions - Design, Develop and Maintain
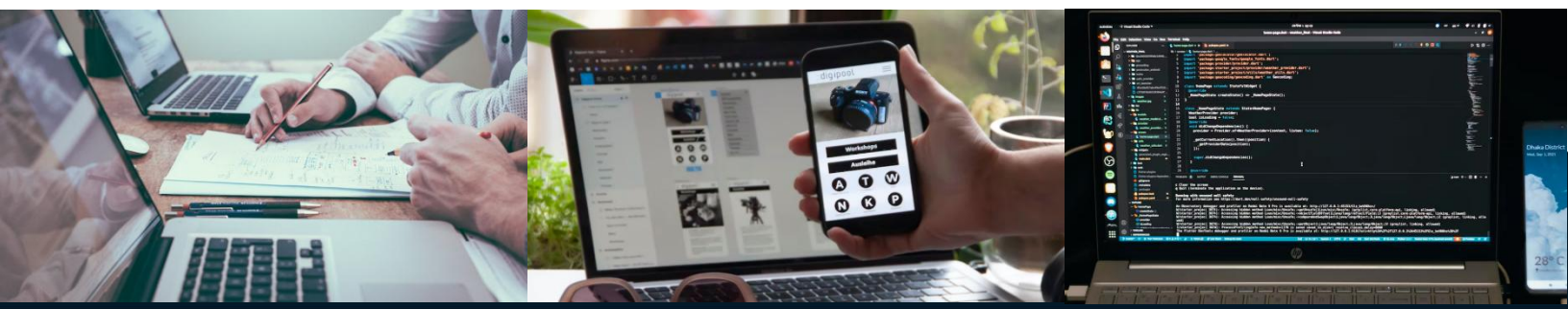- Mobile Solutions - ANDROID / iOS Native, Hybrid and React-Native

CONTACT US

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1. PROPOSED SYSTEM OVERVIEW

1.1 Project Objective

A MUTU TRANS Fleet Management System (FMS) is a comprehensive software designed to manage, coordinate, and optimize a fleet of vehicles, whether it be for logistics, transportation, or service-based businesses. The system integrates various technologies such as GPS tracking, vehicle diagnostics, and analytics tools to improve operational efficiency, ensure safety, and reduce costs.

It's a web application. It means that you can access it from anywhere in the world.

Here's an overview of its key components, benefits, and functionalities

Key Components of a Fleet Management System:

01. GPS Tracking

02. Vehicle Maintenance Management

03. Fuel Management

04. Asset Management

05. Invoice Generation

06. Jobs cost calculator

07. Repair Management

08. Accident Reporting

09. Insurance Claim Management

11. Lease Tracking

10. Supplier Management

12. Compliance and Reporting

13. Fleet Analytics and Optimization

2. Core Modules and Features

2.1 Job & Delivery Management
- Create and manage jobs with multiple deliveries per job.

- Generate and manage delivery notes.

- Real-time GPS tracking of vehicles on delivery routes.

- Dashboard view of delivery status (in-progress, completed, delayed).

- Route optimization capabilities for efficient deliveries.

2.2 Vehicle Health & Maintenance
- Manage licenses, permits, and their expiration dates.

- Schedule and track fuel top-ups.

- Record and schedule periodic examinations (inspections).

- Log and track vehicle repairs and maintenance history.

- Asset assignment to vehicles (e.g., tires, batteries, GPS units).

- View full maintenance and usage history for audit and diagnostics.

2.3 Asset Management System
- Centralized inventory of all company assets.
- Assign assets to vehicles and reassign or decommission as needed.
- Track complete asset history (usage, assignment, repair, and removal).
- Monitor asset depreciation and utilization trends.

2.4 Insurance & Lease Tracking
- Manage vehicle insurance policies with expiration reminders.
- Track and process insurance claims related to vehicle incidents.
- Manage leasing agreements with tracking of due dates and payments.

2.5 Fuel Management
- Track fuel top-ups and monitor vehicle-wise fuel consumption.
- Define fuel thresholds and receive alerts for refueling.
- Generate fuel efficiency reports for operational insights.

2.6 Invoicing & Financial Management
- Bulk and single invoicing support for transport jobs.
- Finance dashboard to monitor income vs. expenses per vehicle.
- Record and manage payments: fuel, repairs, leasing, insurance.
- Customer-wise wallet management to track transport charges and balances.
- Visibility into payment history and pending dues.

2.7. Accident Reporting & Investigation

- Incident Logging:

    - Record all accident details including date, time, location (auto-fetched via GPS), involved vehicles, and driver.

    - Attach supporting documents like photos, videos, and witness statements.

- Driver & Vehicle Involvement Tracking:

    - Link reported accidents to specific drivers and vehicles.

    - View historical incidents per driver or vehicle to identify risk patterns.

- Damage Assessment & Cost Estimation:

    - Log physical damage, assess severity, and record estimated repair costs.

    - Track repair progress and final settlement.

- Insurance Integration:

    - Initiate and track insurance claims directly from the accident report.

    - Attach all required documentation for insurance purposes (police report, repair invoices, etc.).

    - View claim status, communication history, and final approval outcome.

2.8 Customer Wallet & Charge Tracking

- Maintain a digital wallet per customer.

- Monitor transport service usage and associated costs.

- Real-time wallet balance and transaction tracking for transparency.

2.9 Automated Notifications & Alerts

- Expiry reminders for:

    - Licenses and permits

    - Insurance policies

    - Lease contracts

    - Scheduled maintenance

- Threshold-based alerts for:

    - Fuel levels

    - Upcoming job deliveries

    - Asset reassignment needs

2.10 Reporting & Dashboard Analytics

- Real-time operational dashboards with KPIs.

- Reports on:

    - Vehicle performance

    - Delivery efficiency

    - Maintenance logs

    - Income vs. expenses

    - Customer transactions and invoicing

- Exportable reports (PDF, Excel) for audits and presentations.

3.Benefits of a Fleet Management System

3.1 Cost Savings.

- Reduces fuel consumption through optimized routes and driving behavior.
- Minimizes downtime with predictive maintenance and proactive repairs.
- Improves resource allocation and reduces unnecessary vehicle usage.

3.2 Enhanced Productivity.

- Streamlines dispatch and routing for faster delivery times and better customer service.
- Reduces paperwork with digital reporting and compliance tracking.
- Enhances decision-making through real-time data and reporting.

3.3 Improved Safety.

- Ensures vehicle health through regular maintenance reminders.
- Complies with safety regulations and mandates, reducing the risk of penalties.

3.4 Compliance and Risk Management.

- Manages insurance, warranties, and liability with detailed record-keeping.

3.5 Customer Satisfaction.

- Reduces delivery times through optimized routes and better scheduling.
- Provides accurate ETAs for deliveries, improving communication with customers.
- Enhances service quality by preventing breakdowns and delays.

4. Customization & Scalability

We understand that every business has unique requirements. Our TMS is fully customizable. Whether it's integrating third-party systems, implementing specialized workflows, or building new features—we can tailor the system to meet your operational goals.

Conclusion:

A MUTU TRANS Fleet Management System (FMS) is essential for any organization operating a large number of vehicles. It helps streamline operations, cut costs, improve safety, and ensure compliance, ultimately leading to better business outcomes.

5. Technology Stack

This application is device-compatible and is implemented using the following technology stack.

- Web App Frontend – React JS
- Web App Backend – Java with Spring framework

6. FINANCIAL CONSIDERATION

❖ System On boarding Cost

Component	Cost (LKR)
1 – 10 vehicles	30,000.00
11 – 20 vehicles	45,000.00
21 – 40 vehicles	55,000.00
41 – 100 vehicles	80,000.00
100 + vehicles	200,000.00

6.1 PROJECT DELIVERY DURATION

Approximately **2 weeks** to hand over the project to User Acceptance Testing (UAT)

- Project delivery duration mentioned above excludes the client user acceptance testing period.
- Project completion date will be determined with user confirmation of the user acceptance test.
- Any improvement or change request reported by the user during UAT will be estimated separately.
- **Notes:**

  The above project setup cost is for the setup of the proposed solution only. The client needs to facilitate access to third-party integration (if any).

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6.2 MONTHLY SUBSCRIPTION PLANS

Vehicle Count Range	Monthly Cost (LKR)
1 – 10 per vehicle	4,500.00
11-20 per vehicle	4,000.00
21-40 per vehicle	3,500.00
41 -100 per vehicle	3000.00
100 + per vehicle	2500.00

6.3 GPS DEVICE CONFIGURATION

Item	Description	Qty	Price(LKR)
GPS Tracking Device (TMC-101T)	03 Meter accuracy 05 Seconds Update interval GPS Channels: 30 Battery: 170mAh 32Mb Internal Memory 02 Years Warranty Country of Origin - Lithuania	1.00	23,500.00
GPRS Connection annual fee	GPRS Connection for the tracking device.	1.00	1,000.00

7. TERMS AND AGREEMENT

- This proposal is valid for 14 days from the submission date mentioned on the cover page.
- Web Site content Text, Photo, Video) should be supplied by the customer.
- The estimation is for the scope of work given within this quotation. Any additional features beyond the scope given in this quotation will result in the revision of the estimation accordingly.
- This quotation is exclusive of SEO and SEO-related charges.
- Payment Terms
  - o 60% advance payment of the Total Project Cost on confirmation of the project is as agreed.
  - o 40% of the payment one week after the Go live.
  - o Maintenance charges should be paid yearly.
- **Reservation of Rights**: All rights not expressly granted above are retained by the Designer. Any use additional to that expressly granted above requires arrangement for payment of a separate fee.
- The above pricing is for the scope of work given earlier only. Any additional features beyond the scope given in these pages will result in the extension of the project pricing accordingly.