TECHNICAL REQUIREMENTS FOR METRICS UP

1. Team: UZBEK IT

2. Area: Entrepreneurship and Fintech

3. Project title: METRICS UP

4. Product: BI Platform for outsourcing logistics companies

5. Project Purpose

The purpose of the Metrics Up project is to provide logistics companies with a Business Intelligence (BI) platform designed to optimize:

- Key Performance Optimization (with recommendations for best work division)
- Forecast rate for coming 10days
- Allocate resources effectively
- Detect anomalies.
- Data Visualization

By leveraging advanced data visualization (dashboards, charts, and tracking tools) and sophisticated data analysis techniques (such as clustering models and forecasting algorithms), the platform enhances decision-making capabilities. This comprehensive approach not only improves operational efficiency but also empowers logistics companies to potentially achieve a minimum increase of 35% in profit margins. Through smarter insights and data-driven strategies, businesses can unlock new revenue opportunities and maximize their profitability.

6. Roles of team members

No	Fullname	Role	Tasks
1	Shakhrillo Bobokulov	Captain Full-stack developer	Design system architecture Develop front-end user interface Integrate front-end and back-end Focus on UX
2	Anvar Ortikov	Backend Developer	Manage database schema Integrate data analysis models Optimize performance Ensure security of the application
3	Shokhrukh Shokirov	Data Analyst	Collect and clean data Analyze historical loads Develop forecasting models Create visualizations Summarize findings in reports Test/debug interface components

7. Technology Stack:

• Core: Python, Django, Numpy, Pandas, PostgreSQL

• ML Models: ARIMA, K-Means, Isolation Forest

• Visualization: Seaborn, Plotly, DataTables

• Security: SSL/TLS, RBAC, GDPR tools, Twilio

• ML Libraries: Scikit-learn, Statsmodels

8. User Roles on project.

No	Roles	Functions	
		System Control	
1.	Superadmin	User Access Management	
1.	Superaumm	Data Management	
		System Configuration	
		Company Oversight	
2.	CEO	Dashboard Access	
		Reporting	
		Dashboard Access	
3.	Manager	Reporting	
3.	Manager	Load Management	
		Tracking and Reporting	
4.	Dispatcher	Load Management	
4.	Dispatcher	Tracking and Reporting	

9. Main areas of work

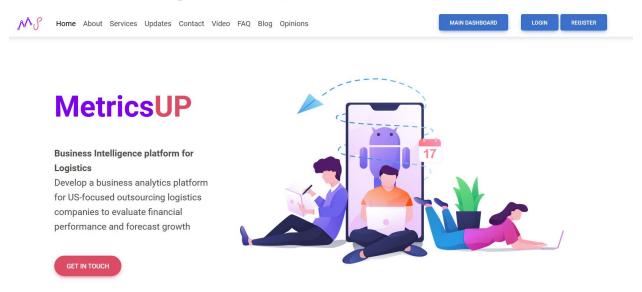
Key Stakeholders (Main Customers): Outsourcing logistics companies for the USA

Business model type: Subscription Business Model(B2B)

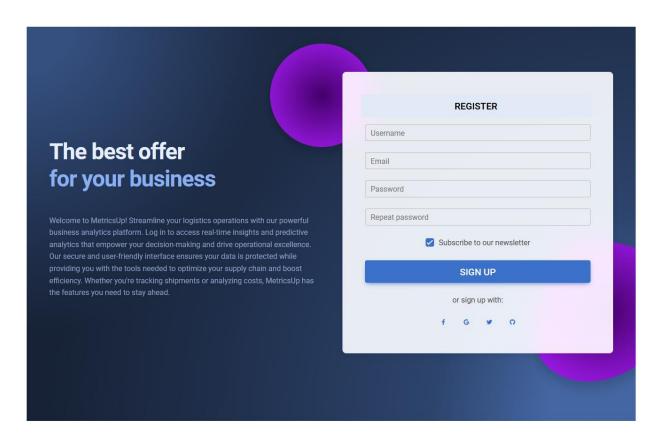
Yearly Price: 40 mln. UZS

No	Country	TAM	SOM
		(Total Available	(Service Oriented Market)
		Market)	
1.	Uzbekistan	4 000 companies	2 000 companies
2.	Kazakhstan	1 200 companies	400 companies
3.	USA	100 000 companies	12 000 companies
4.	Mexico	7 000 companies	3 000 companies
5.	Brazil	3 000 companies	1 000 companies
6.	Ukraine	2 000 companies	800 companies
7.	Lebanon	900 companies	300 companies

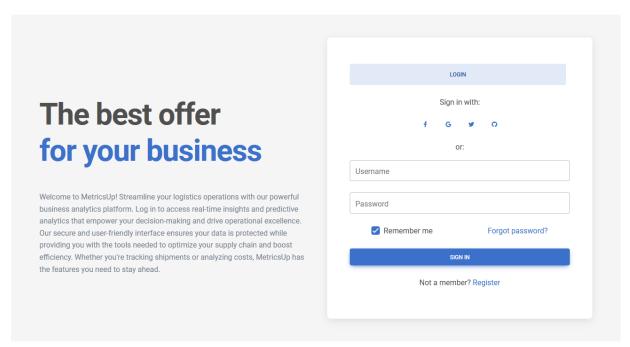
10. Brief description of the system blocks



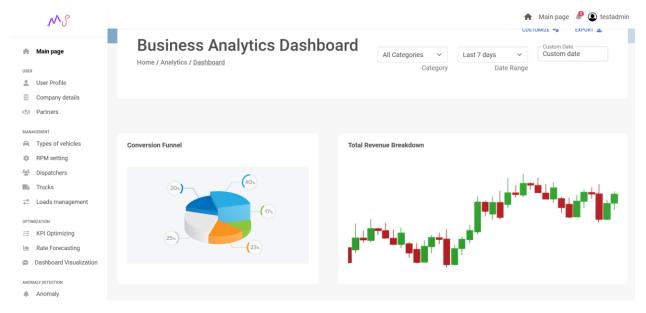
10.1 Main Page(With all important information for visitors and customers)



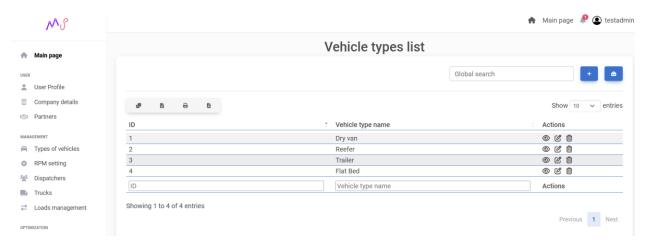
10.2 User registration section



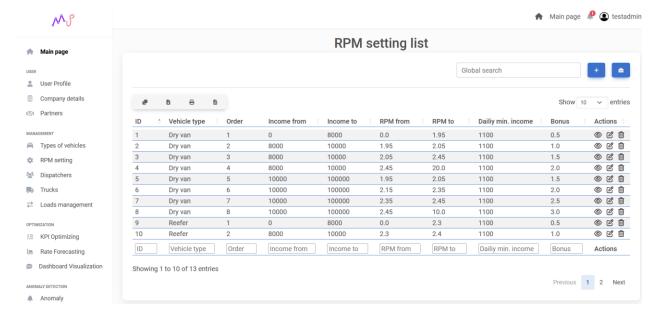
10.3 User Authorization section



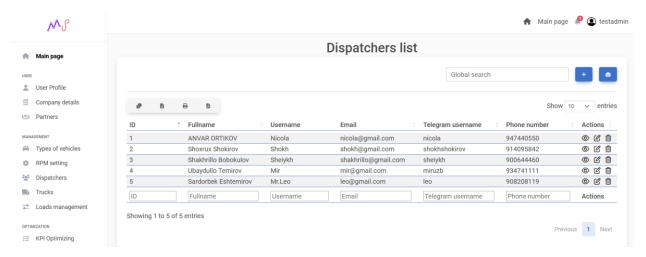
10.4 Main Dashboard(After authorization)



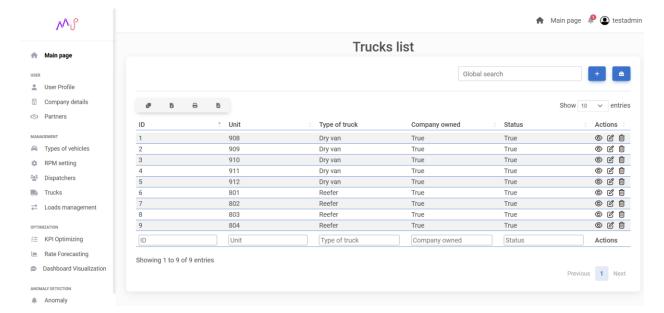
10.5 ETL(Vehicle Type list with CRUD and data export in formats)



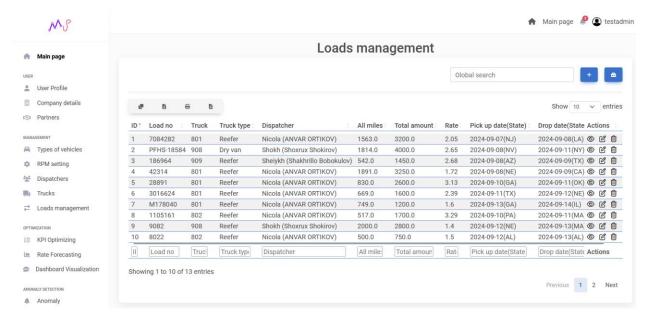
10.6 ETL(RPM Setting list with CRUD and data export in formats)



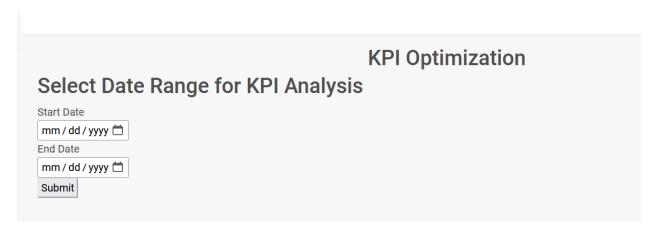
10.7 ETL(Dispatchers list with CRUD and data export in formats)



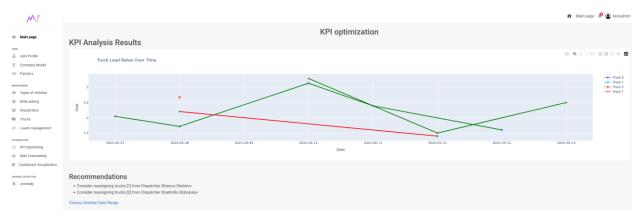
10.8 ETL(Trucks list with CRUD and data export in formats)



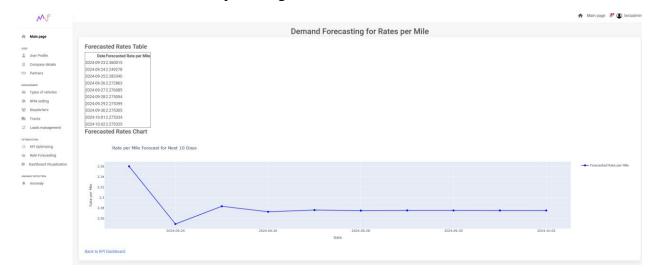
10.9 ETL(Loads management with CRUD and data export in formats)



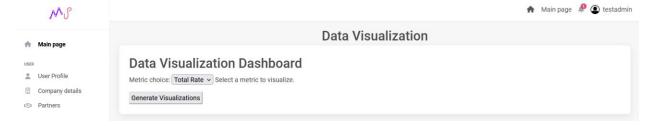
10.10.1 KPI optimizing date selection



10.10.2 KPI optimizing result with line charts and recommendations



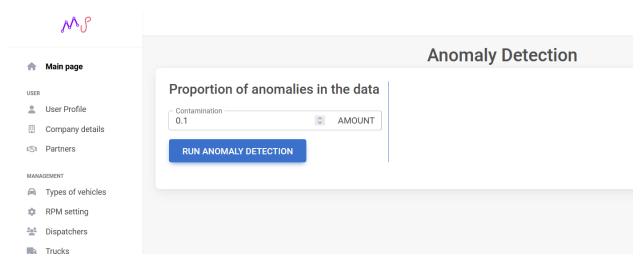
10.11 Rate Forecasting for the coming 10days in table and line chart formats



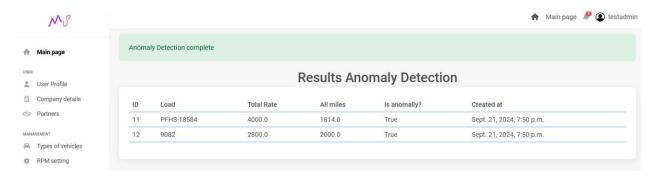
10.12 Dashboard visualization selection



10.13 Dashboard visualization result



10.14 Analyze anomaly sigma selection form



10.15 Anomaly Result