TRAXX

Powered by A2 Digital World

Co-funded by the European Union

Federal Ministry for Economic Affairs and Energy

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

AREA SCIENCE PARK

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TRAXX

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ORIGIN AND CONCEPT OF THE PROJECT

The idea for developing the TRAX system was born from a real need that has existed for years in the driving-school sector. During an in-depth analysis across various cities in the country and the region, it became clear that most driving schools still rely on traditional methods for managing their daily operations—manual student registration, paper-based scheduling, Excel billing, and fragmented communication between instructors and administration.
This led to inefficiency, lack of transparency, and limited control over the teaching and operational processes.

Within the framework of the collaboration with GIZ, through the EU4EG program co-funded by he European Union and the German Federal Ministry for Economic Affairs and Climate Action (BMWK), the A2 Digital World team began developing a digital solution that would transform the way driving schools operate.

After several months of research, consultations with instructors, administrators, and students, the concept of the TRAX platform was created—an intelligent, fully integrated management system designed specifically for driving schools.

PURPOSE AND VISION

The purpose of TRAX is clear: to digitalize the driver-education process by making it easier, more transparent, and more efficient. The project's vision is for every driving school—regardless of size—to have access to a modern platform that enables them to:

Manage students, instructors, and schedules in a centralized way
Track progress in real time
Automate payments and invoicing
Improve communication between staff and students
Ensure data integrity and transparency

TRAX aims to set new standards for driver education, transforming every driving school into a modern organization fully prepared for the digital era.

STRATEGIC OBJECTIVES

TRAX aims to transform the way driving schools operate through digitalization, transparency, and efficiency. The platform enables schools to manage every process in an integrated manner—from student registration and scheduling to payments and progress tracking.

Our vision is for TRAX to become the modern standard in driver education, delivering a simpler, safer, and smarter experience for everyone.

HOW THE IDEA WAS BORN – FROM THE FIELD TO THE SOLUTION

During meetings with driving-school managers, several common challenges were identified:

- Lack of a centralized system for tracking students
- Difficulties in coordinating schedules between instructors and classes
- Manual payment management, often without a clear financial overview
- No real-time reporting or performance statistics for students
- Limited transparency for parents and supervising institutions

These issues inspired the development of a platform that unifies everything into one integrated system. The initial idea took shape as an "intelligent dashboard" for administrators, which later evolved into a complete ecosystem that includes students, instructors, administration, and school owners.

DEVELOPMENT AND IMPLEMENTATION OF THE PLATFORM

TRAX was developed as a cloud-based platform, accessible from both computers and mobile devices. It offers a clean, intuitive, and user-friendly interface where every action is simple and logical.

Key Features:

- Secure registration and authentication with customized roles for administrators, instructors, and students
- Complete schedule management, including lesson allocation and planning for vehicles and instructors
- Integrated financial system with automatic invoice generation and payment tracking
- Real-time reporting and analytics on student performance, instructor activity, and overall business progress
- High adaptability, allowing each driving school to configure the platform according to its own structure
- Secure data storage and compliance with privacy-protection standards

WHY TRAX IS THE RIGHT SOLUTION

- For driving schools: it automates processes, increases efficiency, and provides a clear financial overview.
- For instructors: it simplifies scheduling and automatically stores the full history of lessons.
- For students: it enables online registration and payments, with full access to their personal progress.
- For public institutions: it ensures transparency, reporting, and traceability at every step.

STRATEGIC VALUE AND THE FUTURE OF THE PROJECT

TRAX is not just a software — it is a step toward the digitalization of the road-education system in the region. With its implementation, driving schools gain a modern tool that saves time, reduces costs, and enhances service quality.

In the future, the system will evolve with additional modules such as:

- Reporting tools for municipal authorities and inspection bodies
- A dedicated mobile application for students
- Integration with national licensing systems
- Artificial intelligence for progress analysis and performance forecasting

SUSTAINABLE DEVELOPMENT AND PARTNERSHIPS FOR THE FUTURE

TRAX is designed as a long-term project that does not end with the system's initial implementation, but continues to evolve over time. Our approach ensures that the platform is not just a technical tool, but a sustainable ecosystem that supports the development of a digital culture within the driving-school sector.

In the upcoming phases, TRAX will expand to include new modules for institutional reporting, advanced performance analytics, and mobile applications for both students and instructors. Additionally, there are plans to create a collaborative network among driving schools using the system, enabling them to share best practices, experiences, and innovations.

Through partnerships with municipalities, development organizations, and educational institutions, TRAX aims to become a regional reference platform that promotes efficiency, transparency, and safe road education. With regular updates, technical support, and continuous development, TRAX will always stay aligned with real market needs and modern educational standards.

CONCLUSION

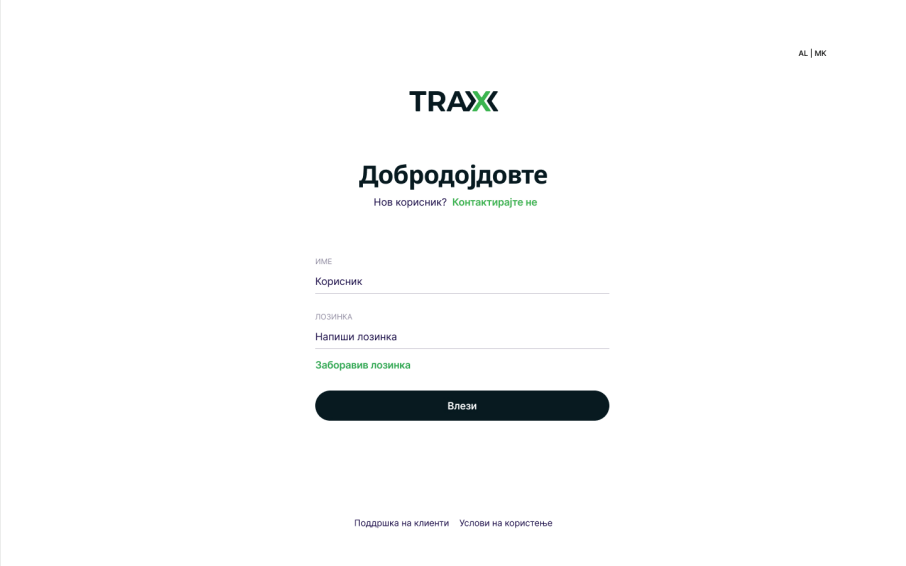
TRAX is the result of a collaboration between technological innovation and real market needs. It is built with the goal of simplifying, improving, and modernizing the way vehicle driving is taught and managed. The platform represents an important step toward the digital transition of educational institutions in North Macedonia and beyond.

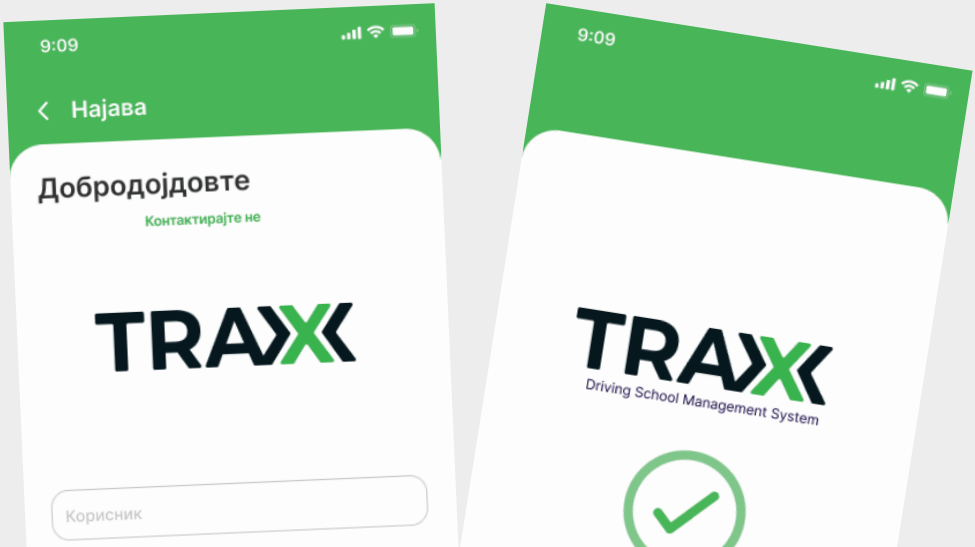
A modern platform for modern driving schools.
Available on both computer and mobile, TRAX offers a clean and intuitive interface designed for instructors and students alike.

Karakteristikat kryesore:

Secure login and user roles
Online registration and payments
Schedule and attendance management
Progress and test tracking

Designed for flawless performance on all devices — anytime, anywhere.





Kërko

Контролна табла
Инструктори
Теорија
Практика
Кандидати
Распоред
Автомобили
Историја

Автошкола АРТ
Админ/Главен

Одјави се

Здраво Автошкола Арт!

Добредојде

Петок 20.08.2024
7:00 AM

Инфо | Фактури | Вработени | Плаќања

Профил

Профил на автошколата и други важни податоци

Профилна Слика

Автошкола АРТ

Боја на профилна

Додај нова слика

Избриши слика

Име на Автошкола
Автошкола АРТ

Адреса
Сараj

Телефонски број
078 123 456

е-маил
art.autoshkolla@gmail.com

Тековна
Тековна сметка

Додај тековна сметка

A ✓ A1 ✓ A2 ✓ AM ✓
B ☐ BE ☐
C ✓ C1 ✓ CE ✓ C1E ✓
D ☐ DE ☐ D1E ☐

Зачувај

Kërko

Контролна табла
Инструктори
Теорија
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Кандидати
Распоред
Автомобили
Историја

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Петок 20.08.2024
7:00 AM

Инфо | Фактури | Вработени | Плаќања

Кориснички профил

Профил на корисникот

Профилна Слика

John Smith

Боја на профилна

Додај нова слика

Избриши слика

Име и Презиме
John Smith

е-маил
johnsmith@gmail.com

Телефонски број
078 123 456

Лозинка

Стара лозинка

Додај нова лозинка

Потврди ја новата лозинка

Inside the TRAX Platform

The TRAX system is designed with a modern, clean, and intuitive interface that allows every user to navigate easily between the main functions. The structure is organized logically, featuring a sidebar menu that provides quick access to all core modules such as: Dashboard, Instructors, Theory, Practice, Candidates, Schedule, Vehicles, and History.

Driving School Profile

In the first section, “Профил на автошкола”, administrators can manage all the essential information about the institution:

Upload the school’s logo or profile image
Choose a color scheme to personalize the platform’s visual appearance
Enter core details such as the school name, address, phone number, and email
Manage the bank account (тековна сметка) used for payment integration
Configure license categories and available courses, including categories A, B, C, D and their subcategories (A1, A2, AM, BE, C1E, D1E, etc.), each of which can be activated individually

This section ensures that every driving school has a clear digital identity and a fully customized structure, allowing the system to adapt to its real working environment.

Design and User Experience

The interface uses clean typography, simple icons, and clearly separated information, ensuring that every function is easily accessible.
The green buttons “Сочувај” (Save) and “Избери боја” (Choose color) highlight the primary actions and enhance the friendly, intuitive visual experience. Additionally, at the top of the page, a personalized welcome message (“Здраво Автошкола АРТ!”) and the current time are displayed, creating the feeling of a dynamic, real-time, and actively operating system.aktiv dhe të gjallë në kohë reale.

Billing and Payments Module – "Фактури"

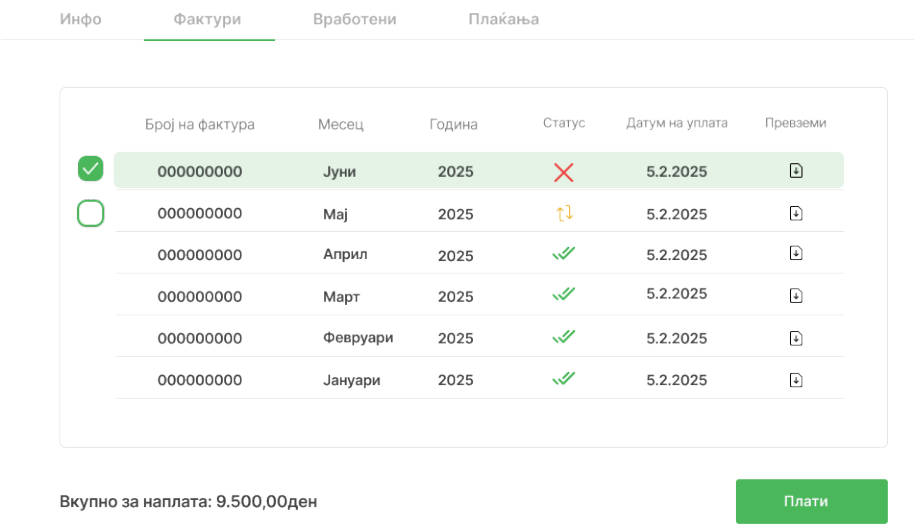
This TRAX module provides a simple, clear, and fully automated way to manage the driving school's monthly invoices. The interface is structured to ensure full transparency and complete control over every financial transaction.

Key Features:

-A monthly list of invoices organized by month, year, and payment status
-Clear columns showing the invoice number, month, year, status, payment date, and a download option for each document
-The visual indicators immediately show the status of each invoice:
- ✓ – paid invoice
- ⤴ – payment in process
- × – unpaid invoice

The selection function (checkbox) allows the administrator to choose multiple invoices for batch payment.

At the bottom, the system automatically calculates the total amount due, displaying it clearly beneath the list (e.g., "Total to be paid: 9,500.00 MKD").



Payment Functionality:

The "Плати" (Pay) button becomes active once the user selects the desired invoices. After confirmation, the system automatically records the transaction and updates the status in real time, making the process fast, transparent, and free of manual errors.

Employees Module – “Вработени”

The TRAX system includes a dedicated module for managing the school’s staff and instructors, providing full control over the data and employment status of every team member.

Module Contents:
The table displays the list of employees with three main columns:

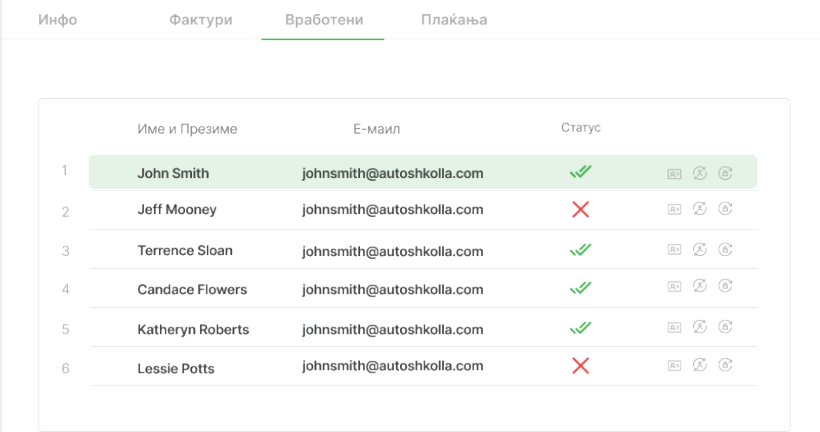
- **Full name**
- **Email address**
- **Active employment status**

In the status column, the system uses visual indicators to show the state of each instructor:

- ✓ – active and connected to the system,

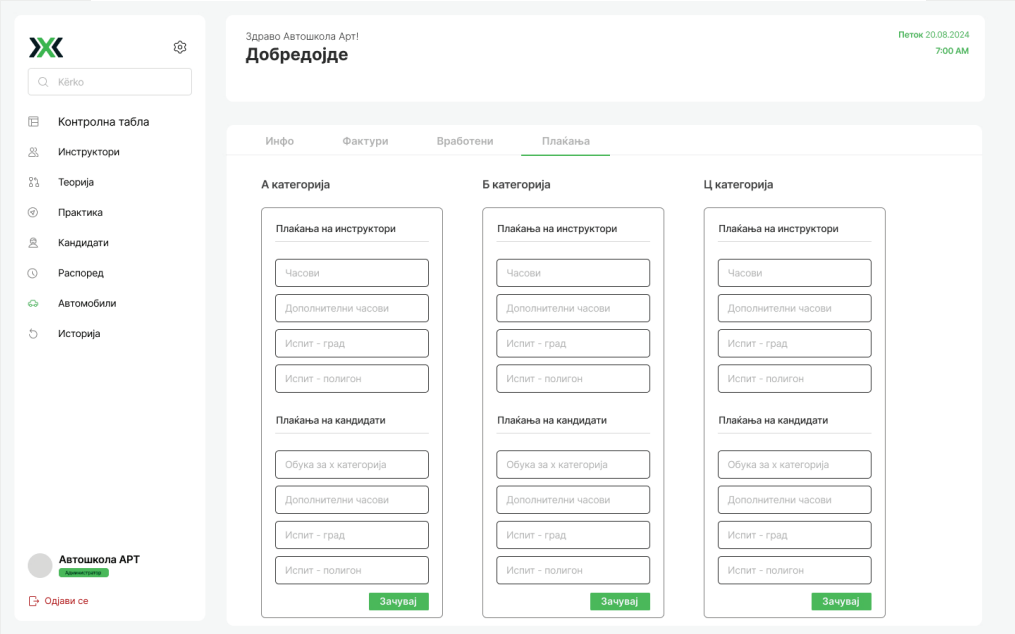
- × – inactive or with blocked access,

Additional icons on the right side allow quick actions such as updating the profile, changing the status, or restoring access.



Payments Module – “Плаќања”

This module is designed to standardize and automate the management of financial fees for all categories of students and instructors in the driving school.
Through this section, the administrator can set, update, and save prices for each training category and type of service.



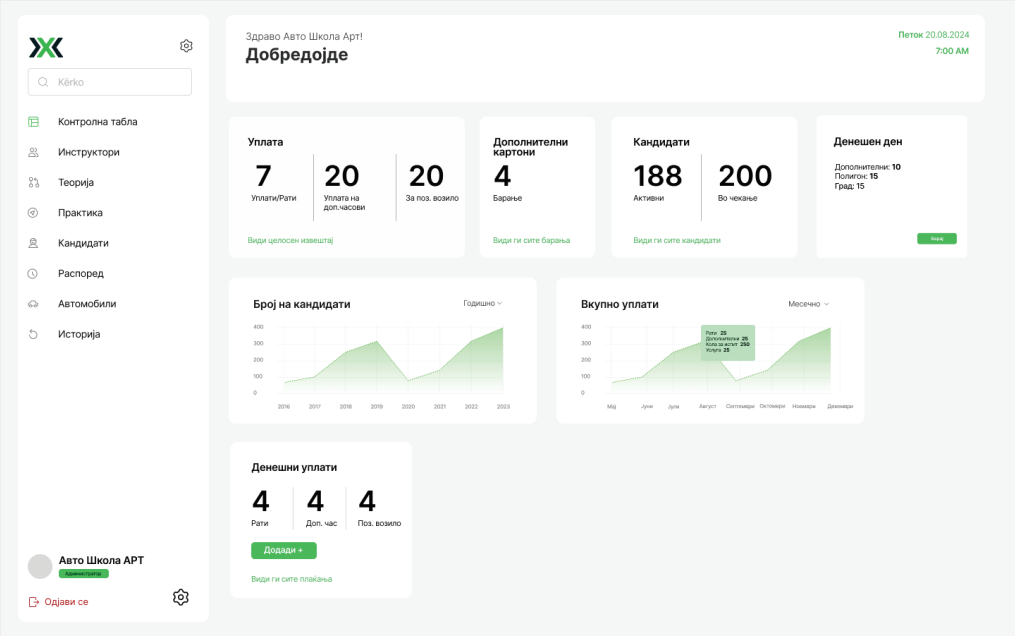
Module Structure

- The interface is divided into three clear columns based on driving-license categories:
- Category A, Category B, Category C

Each column contains two functional blocks:
Payments for Instructors, where the administrator defines fees for:
- **Standard practice hours**
- **Additional practice hours**
- **City exam**
- **Polygon exam**

Payments for Candidates, where prices are specified for:
- **Basic training for the selected category**
- **Additional hours**
- **City and polygon exams**

Additional icons on the right side allow quick actions such as updating the profile, changing the status, or restoring access.


Здраво Авто Школа Арт!
Добредојде
Петок 20.08.2024
7:00 AM
Кёrko
Контролна табла
Инструктори
Теорија
Практика
Кандидати
Распоред
Автомобили
Историја
Уплата
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Уплати/Рати
20
Уплата на доп.часови
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Видi целосен извештај
Дополнителни картони
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Кандидати
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Активни
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Во чекање
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Денешен ден
Дополнителни: 10
Полигон: 15
Град: 15
Барај
Број на кандидати
Годишно
400
300
200
100
0
2016
2017
2018
2019
2020
2021
2022
2023
Вкупно уплати
Месечно
Рати: 25
Дополнителни: 25
Кола за испит: 250
Услуги: 25
Мај
Јуни
Јули
Август
Септември
Октомври
Ноември
Декември
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Рати
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Поз. возило
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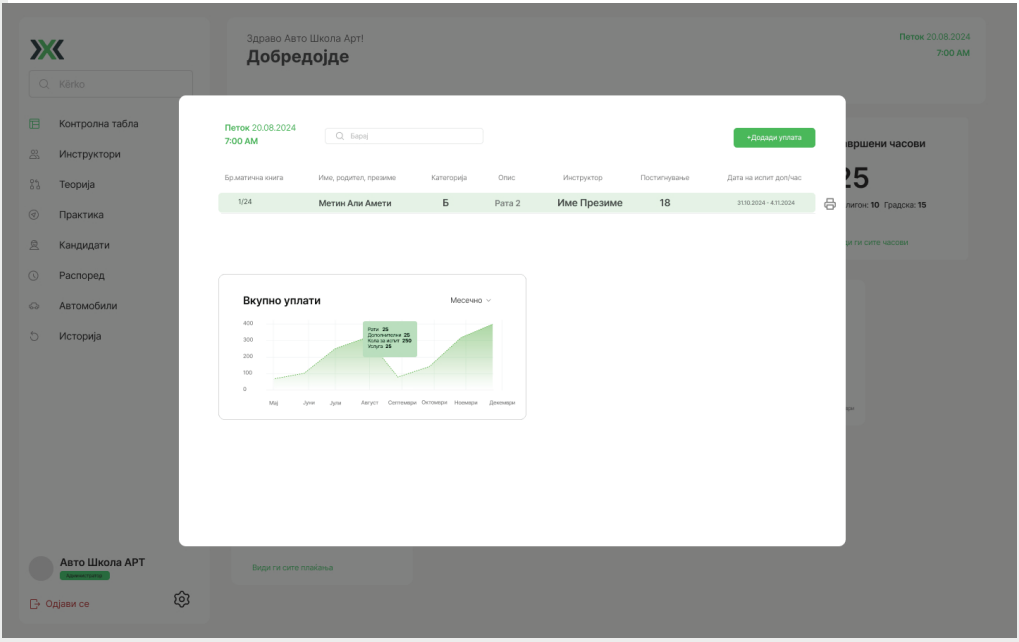
Видi гi сите плаќања
Авто Школа АРТ
Одјави се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Добредојде
Петок 20.08.2024
7:00 AM
Кёrko
Контролна табла
Инструктори
Теорија
Практика
Кандидати
Распоред
Автомобили
Историја
Барај
+Додади уплата
Бр.матична книга
Име, родител, презиме
Категорија
Опис
Инструктор
Постигнување
Дата на испит доп/час
1/24
Метин Али Амети
Б
Рата 2
Име Презиме
18
31.10.2024 - 4.11.2024
Вкупно уплати
Месечно
Рати: 25
Дополнителни: 25
Кола за испит: 250
Услуги: 25
Мај
Јуни
Јули
Август
Септември
Октомври
Ноември
Декември
Видi гi сите плаќања
Авто Школа АРТ
Одјави се

Real-Time Overview

The TRAX dashboard is the central hub for information and monitoring, designed to give administrators and instructors immediate insight into the overall activity of the driving school. Developed with a focus on clarity, structure, and ease of use, this page visualizes operational, financial, and statistical data in a dynamic and intuitive way.

Main Components and Functionalities

Top Info Boxes (Widgets)

Уплата (Payments) – number of payments made for the current day and week
Дополнителни часови (Additional Hours) – information on planned or completed extra lessons
Кандидати (Candidates) – total number of students, separated into active and in-progress
Денешен ден (Today) – daily overview of theory and practice hours, as well as conducted tests

Dynamic Charts

Број на кандидати (Number of Candidates) – shows the trend of student growth over the years
Вкупно уплати (Total Payments) – visualizes monthly revenue movements
These charts are generated automatically and updated in real time, helping administrators make data-driven decisions.

Daily Payment Report

A dedicated window is available for recording new payments, where the administrator can add the student, category, instructor, and date of payment.

The system integrates directly with the financial module, ensuring that every transaction is stored accurately and remains fully traceable.

Додај инструктор / Уредување на профил

Слика

Избери слика | Избриши слика

Реден број: 20

Инструктор

Име и презиме: Име | Презиме

Дата на раѓање: 00.00.0000

Матичен број: 0000000000000

Адреса: Улица

Кола: SK - 0000 - XX

Редовен/Вонреден технички: 00.00.0000 | 00.00.0000

Број на инструктор: 0000 | 00.00.0000

Број на лиценца: 0000 | 00.00.0000

Возачка дозвола

L табла: L00 X00

Денот кога започнал: 00.00.0000

Категорија: Инструктор | Физ.лице

A ☐ A1 ☐ A2 ☐ AM ☑
B ☑ BE ☑
C ☑ C1 ☑ CE ☑ C1E ☐
D ☐ DE ☐ D1E ☐

e-mail

Телефонски број

AM Категорија	
Час	200mkd
Доп.час	200mkd
Испит	200mkd

B Категорија	
Час	200mkd
Доп.час	200mkd
Испит	200mkd

BE Категорија	
Час	200mkd
Доп.час	200mkd
Испит	200mkd

C Категорија	
Час	200mkd
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Испит	200mkd

C1 Категорија	
Час	200mkd
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Испит	200mkd

CE Категорија	
Час	200mkd
Доп.час	200mkd
Испит	200mkd

Откажи | Додај

Instructors Module – “Add / Edit Profile”

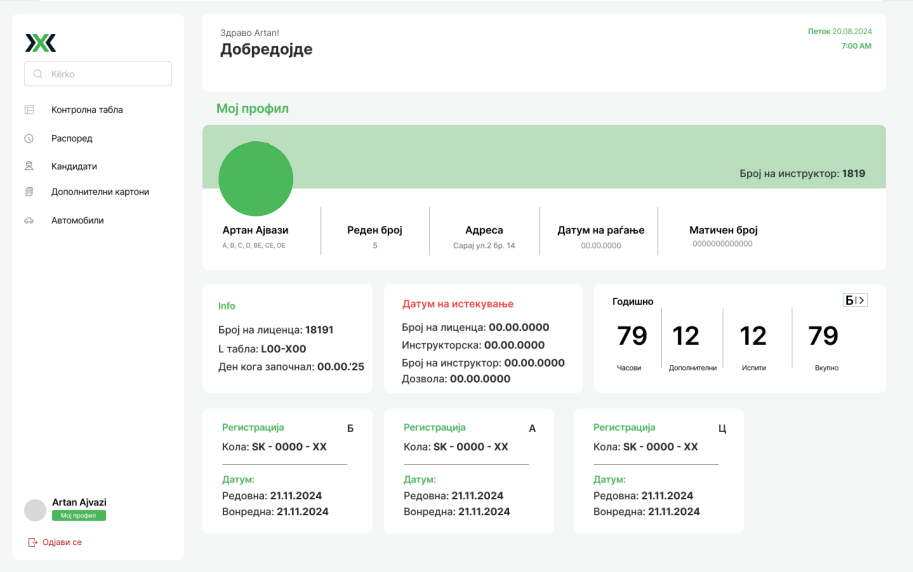
This section of the TRAX platform is designed to enable complete and centralized management of driving-school instructor profiles. Through this interactive form, the administrator can create or update instructor profiles, including all personal, professional, and technical information needed for the efficient operation of the school.

Information Recorded:
Instructor photograph, with the option to upload or update instantly
Serial number and professional status (instructor or individual contractor)
Full name, date of birth, address, and identification numbers (registry number, license number, etc.)
Vehicle information used by the instructor (license plate, technical inspection details, etc.)
Contact details: email and phone number
Employment start date
Driving-license categories the instructor holds and teaches (A, B, C, D, and subcategories such as A1, A2, AM, BE, C1, C1E, etc.)

Categories and Fees:
Price per lesson hour
Price per additional hour
Price for practical or theory examination

All this data can be edited and saved automatically for each instructor, ensuring flexibility and personalized compensation based on driving category.

Through this module, TRAX transforms instructor management into a fully digitalized, organized, and professional process, aligned with modern standards of driver education.



Instructor Profile – “My Profile”

This section of TRAX is designed to give every instructor a personal space within the system, where they can view and manage all their professional and operational data. The interface is clean, intuitive, and organized so that key information is immediately visible.

Functionality and Benefits

The “My Profile” module provides:

-Transparency and self-management for every instructor
-Real-time updates of personal and professional information
-Monitoring of documents and their validity dates
-Annual statistics that reflect each instructor’s contribution and activity

This system makes TRAX an integrated, user-oriented platform where every member of the driving school has secure, personalized access to their professional information.

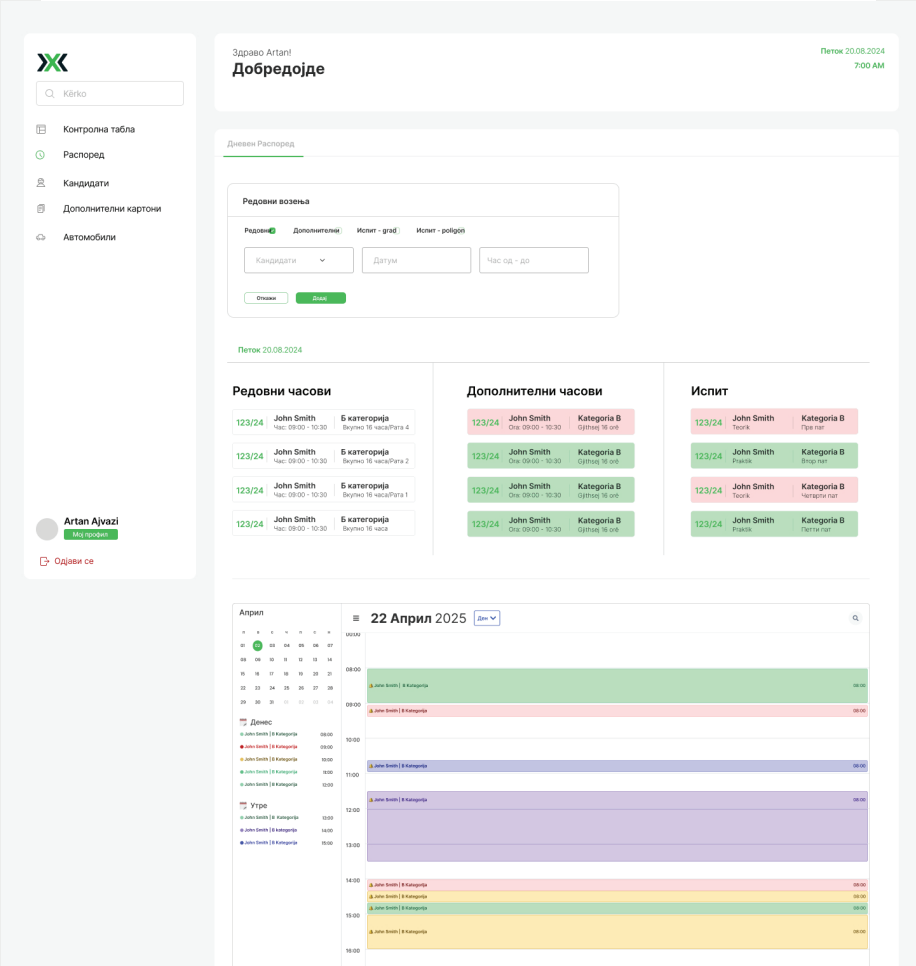
Schedule Module – “Raspored”

This TRAX module is designed to offer an intelligent and dynamic scheduling system for instructors and candidates. It combines visual organization with practical functionality, allowing users to maintain complete control over their daily and weekly activities.

Overview
At the top of the page, the user can filter and search schedules based on:

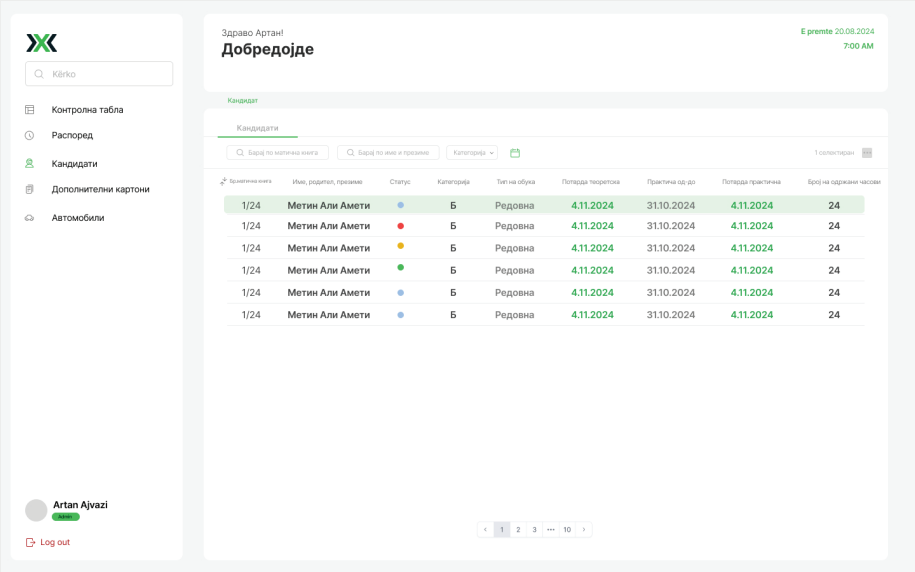
-Type of lesson (regular, additional, or exam)
-Driving-license category
-Instructor
-Desired date and time

Once the parameters are selected, the system automatically generates the corresponding schedule and displays it visually in a daily or weekly calendar.



Candidates Module – “Kandidatët”

KThis TRAX module is designed to centralize and automate the management of students (candidates) enrolled in the driving school. It provides a clear and organized system for registering candidates, tracking their progress, and managing their lessons — from the moment they sign up until they complete the course.



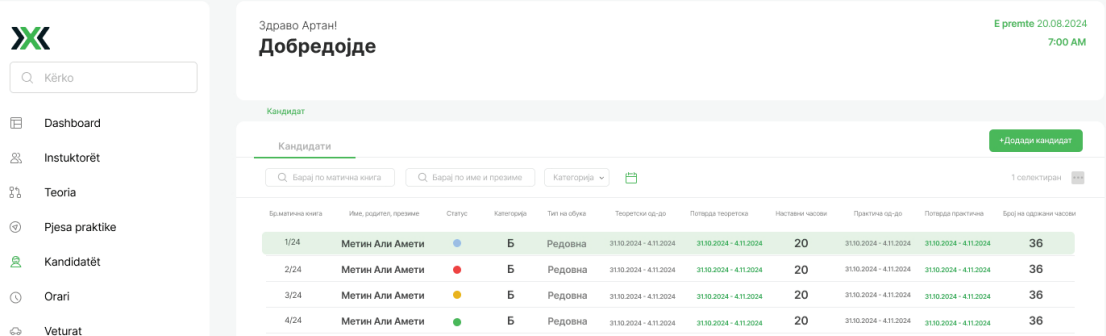
Advanced Functionalities

-Search and filter candidates by name, category, or training status

-Add new candidates through the “+ Add Candidate” button

-Option to export data or automatically generate reports

-Real-time tracking of each candidate’s individual progress

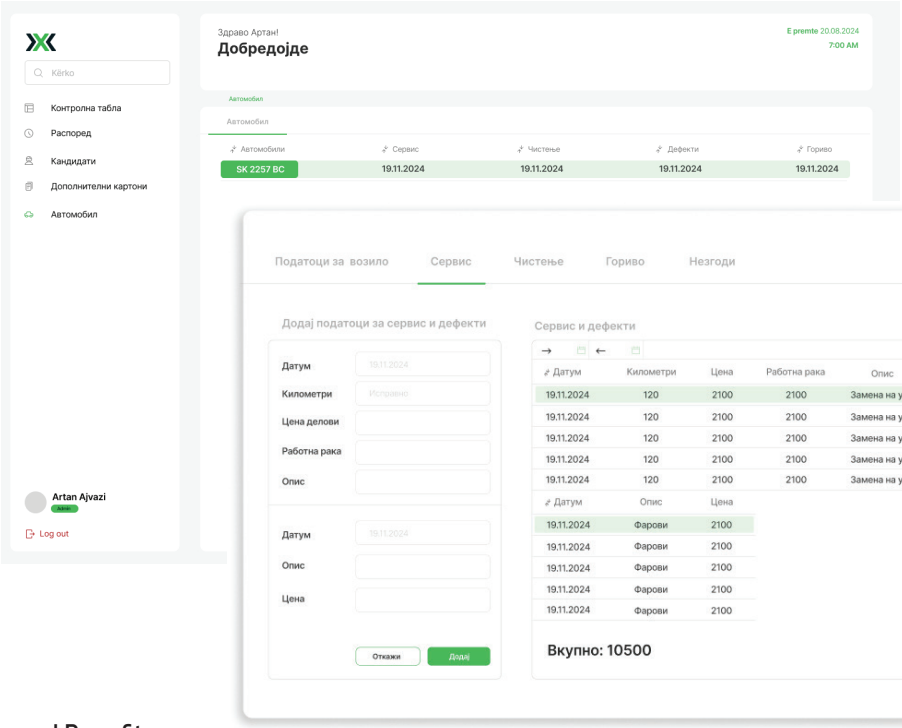


Vehicles Module – “Automobil”

This module is designed to ensure organized control and maintenance of the driving school’s vehicles. It helps instructors and administrators keep complete records for every car used in training, storing its full technical and financial history.
Main Content and Functions

The main table displays, for each vehicle:
- License plate number
- Dates of the most recent servicing
- Cleaning and inspection dates
- Reports on defects and fuel refills

Each vehicle has its own detailed profile, where data can be added or updated for servicing, repairs, expenses, and incidents. This ensures that all information about each vehicle is traceable and accessible at any time.



Value and Benefits

Ensures complete financial and technical transparency for vehicle maintenance
Eliminates manual records and reduces human error
Provides full traceability of each vehicle’s history, making the system reliable and professional
Enables proactive service planning and automated management of operational costs

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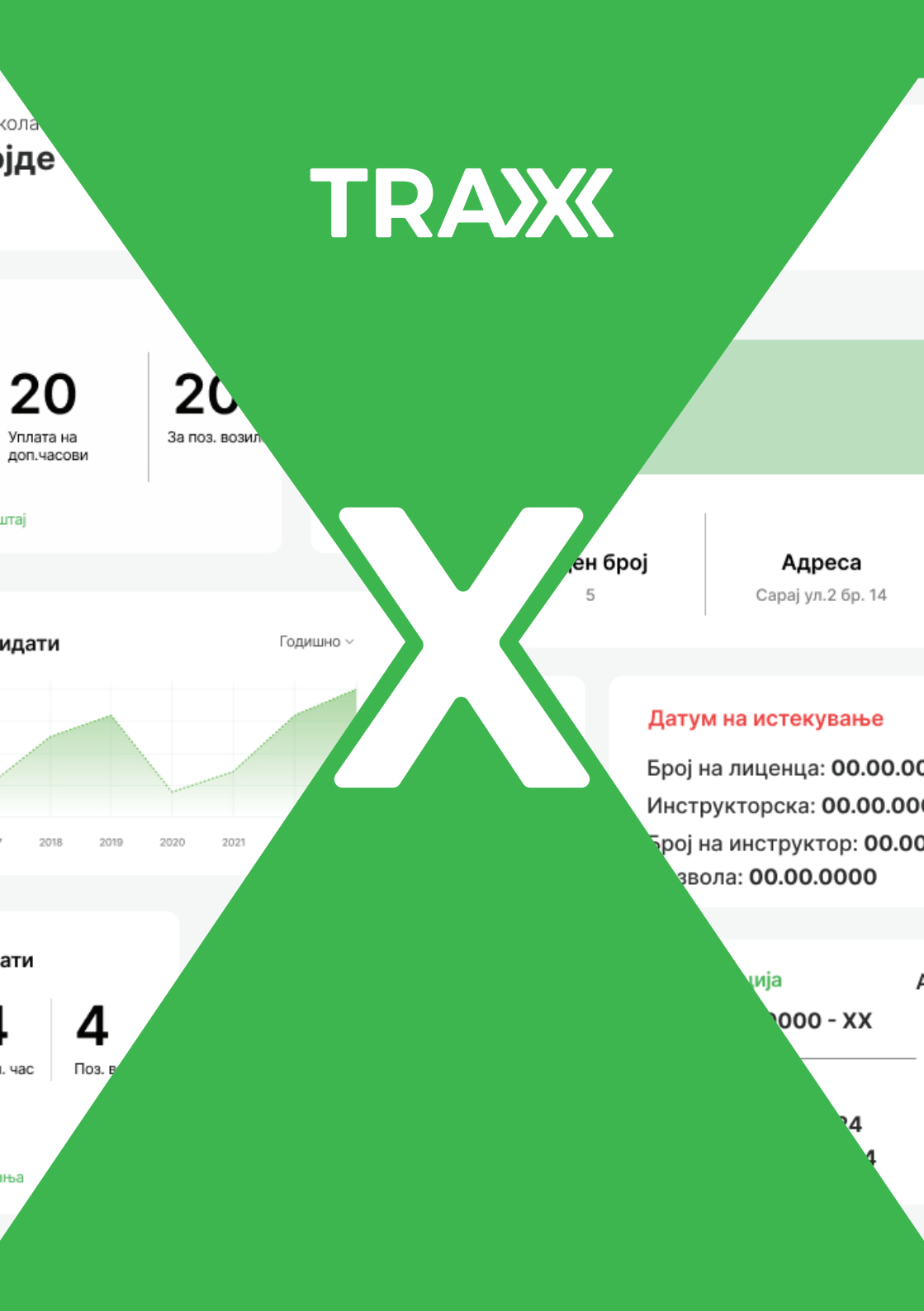
20
Уплата на доп.часови
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За поз. возил
Адреса
Сарај ул.2 бр. 14
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Годишно
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2019
2020
2021
Датум на истекување
Број на лиценца: 00.00.00
Инструкторска: 00.00.00
Број на инструктор: 00.00
звола: 00.00.0000
000 - XX
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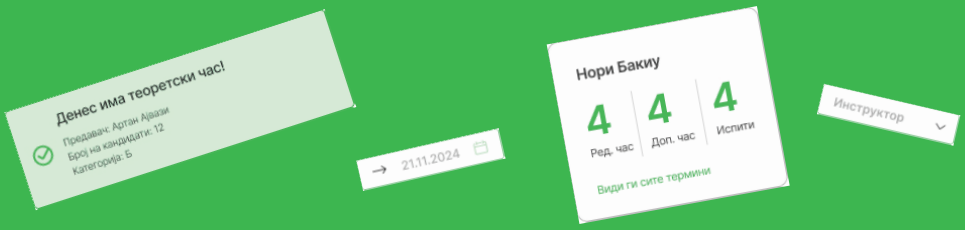
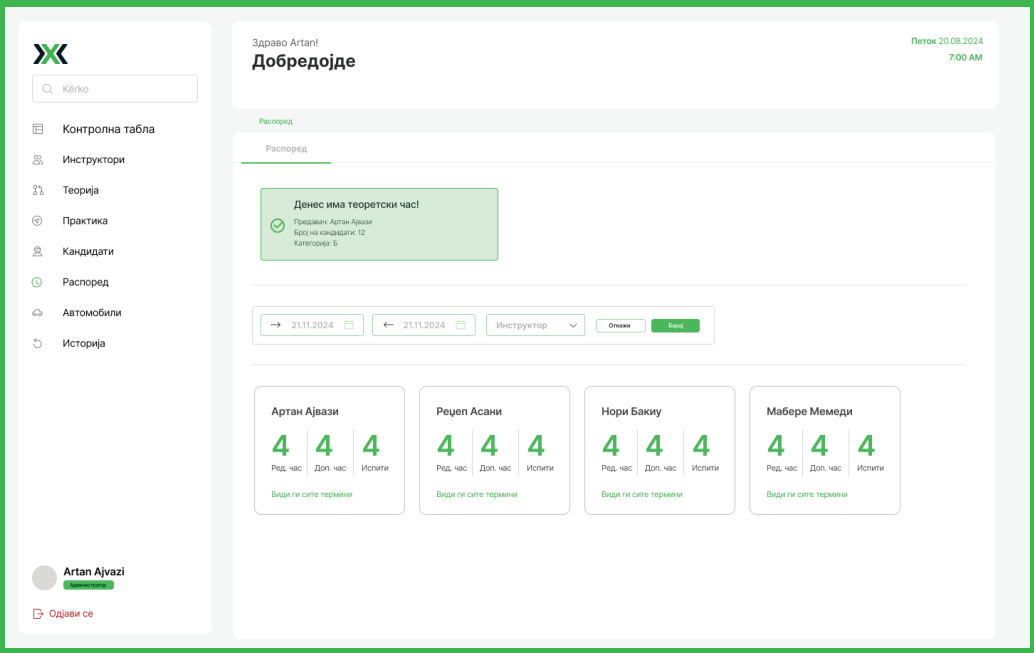
4



ONE CALENDAR. ONE PLATFORM.

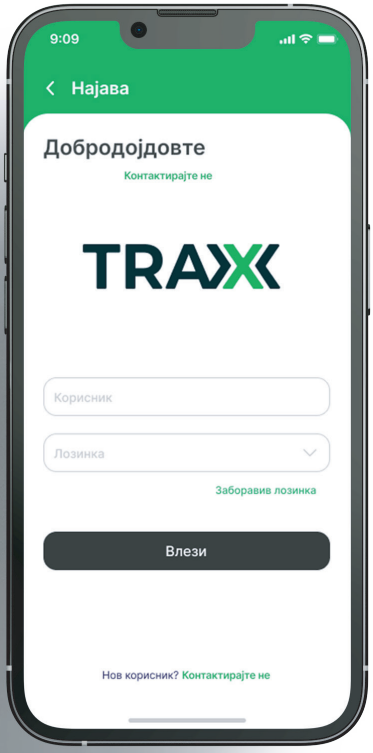
COMPLETE CONTROL.

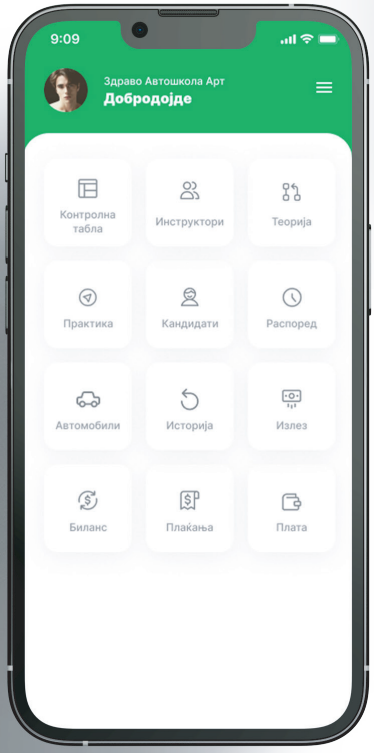


TRAXX

TRAX

TRAX is built to provide easy access and full functionality on any device, computer, tablet, or mobile phone.





With its modern design and intuitive interface, the system automatically adapts to any screen, allowing instructors and administrators to manage schedules, candidates, and payments easily, wherever they are.

Додај инструктор/Уред.проф.

Избери слика | Избриши слика

e-mail

Телефонски број

Реден број

20

Инструктор

Lorem ipsum

Име и презиме

Lorem ipsum

Lorem ipsum

Датум на раѓање

Lorem ipsum

Матичен број

Lorem ipsum

Адреса

Lorem ipsum

Кола

Lorem ipsum

Редовен/Вонреден технички

Lorem ipsum

Lorem ipsum

Број на инструктор

Lorem ipsum

Lorem ipsum

Број на лиценца

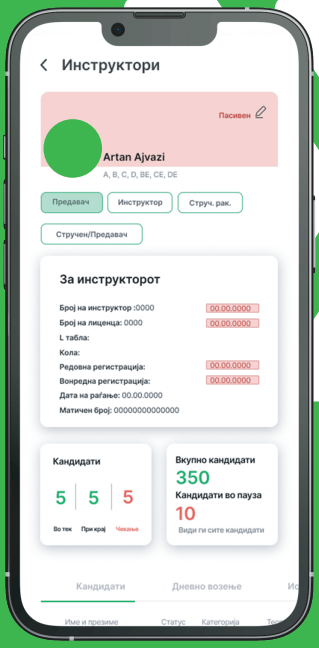
Lorem ipsum

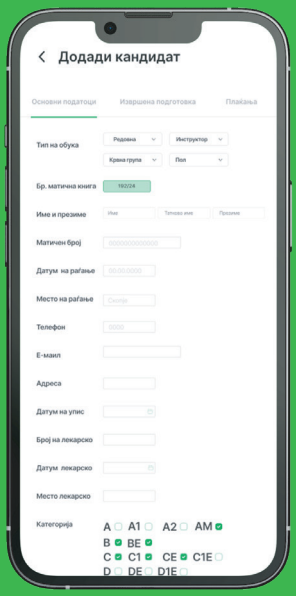
Lorem ipsum

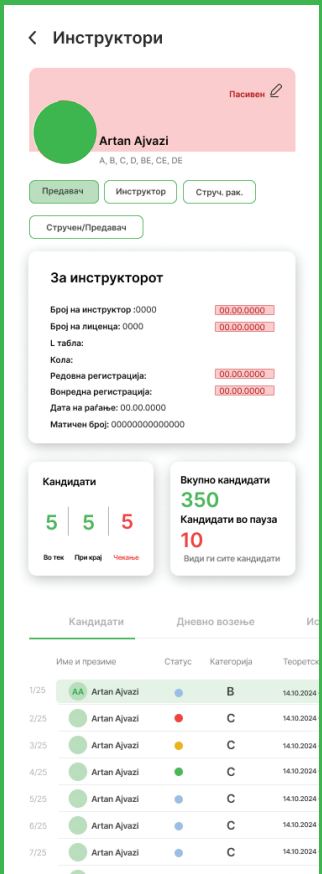
Возачка дозвола

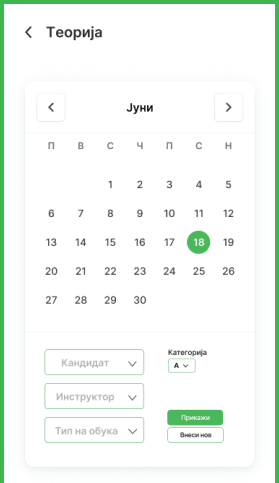
Lorem ipsum

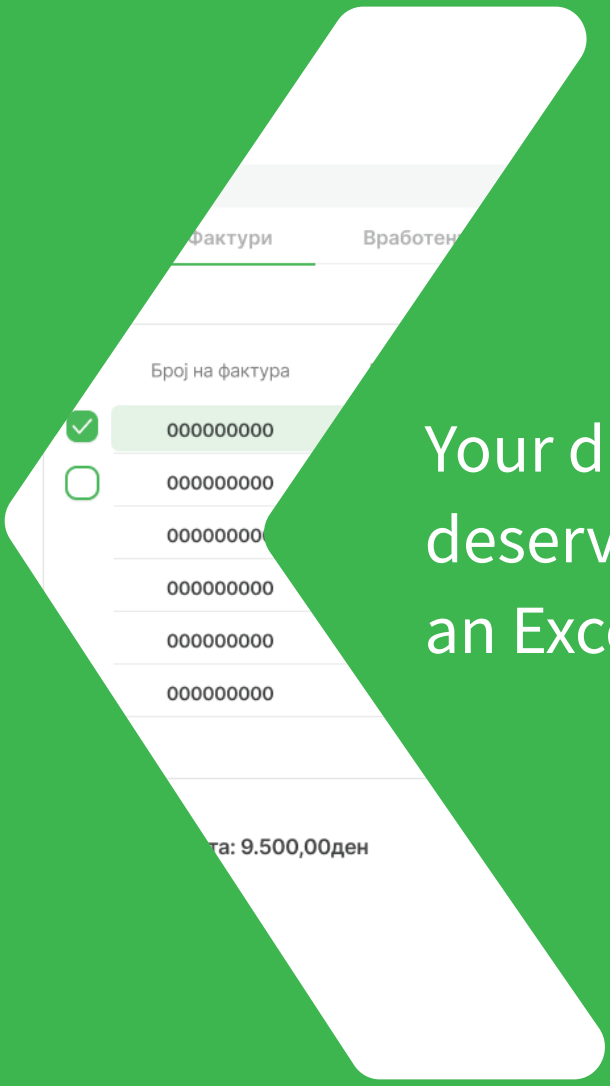
Денот кога започнал





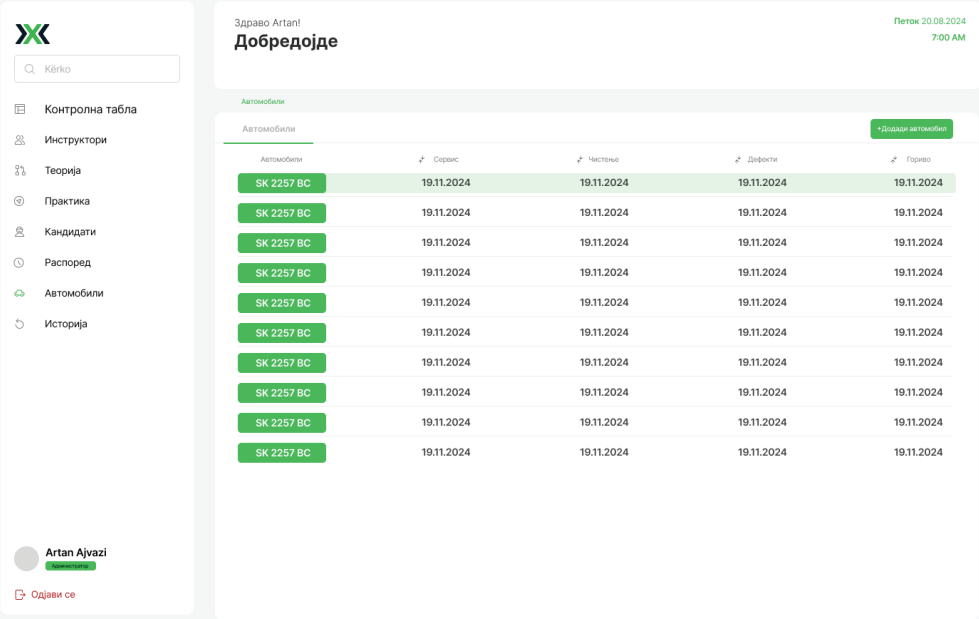






Your driving school deserves more than an Excel sheet.

YOUR CARS ARE YOUR ASSET.



MANAGE THEM WISELY.

Датум	Цена
19.11.2024	200
19.11.2024	200
19.11.2024	200
19.11.2024	200
19.11.2024	200

Вкупно: 10500

19.11.2024	Фарови	2100

SK 2257 BC

Регистрација	SK 668 AN
Статус	Исправно
Датум ред.тех.преглед	19.11.2024
Датум вон.тех.преглед	19.11.2024
Автошкола	Автомобилот е во сопственост на автошколата

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Federal Ministry for Economic Affairs and Energy

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AREA SCIENCE PARK

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