taxi-management-app

Overview

Taxi Management App is designed for taxi dispatchers to manage taxi orders, drivers, and related operations. This application was inspired by the "Taxi-Master" program.
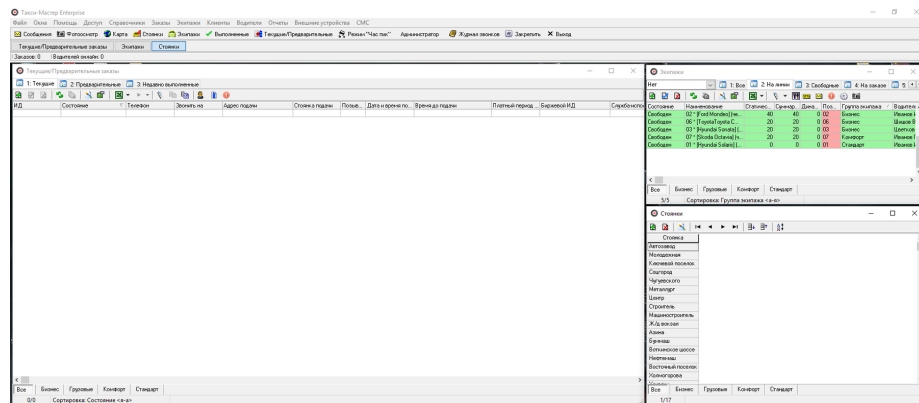
Screenshots

Taxi-Master

Figure 1: image

Taxi Management App

Taxi Dispatcher — Заказы

| | Заказы | Экипажи | Карта | Отчет | Журнал Звонков | Чат | Помощь | Настройки |

Добавить Заказ | Удалить Заказ | Обновить Заказ | Изменить Просмотр | Выделить Заказ | Завершить Заказ | Присвоить Заказ

Не присвоенные Заказы | Текущие Заказы | Запланированные Заказы | Завершенные Заказы

Id	PhoneNumber	FromLocation	HasLuggage	HasChildren	ToLocation	OrderType	Status	DriverId	PlannedTime
15	+996 443 231 321	ул. Пушкина, 15	☐	☐	ул. Садовая, 25	Стандарт	Unassigned		
18	+996 555 333 111	ул. Красная, 50	☑	☑	ул. Мира, 60	Стандарт	Unassigned		
19	+996 111 111 111	пр. Победы, 70	☑		ул. Лермонтова, 80	Комфорт	Unassigned		
20	+996 222 222 222	ул. Кирова, 90	☑	☑	Чапаева, 100	Стандарт	Unassigned		
21	+996 333 333 333	ул. Труда, 110	☑	☑	ул. Жукова, 120	Стандарт	Unassigned		
22	+996 444 444 444	пр. Молодежный, 130	☑	☑	ул. Новая, 140	Комфорт	Unassigned		
23	+996 123 123 123	ул. Центральная, 150	☐	☑	ул. Центральная, 20	Стандарт	Unassigned		
24	+996 777 777 777	ул. Лесная, 1	☑	☑	ул. Полевая, 4	Организация	Unassigned		
25	+996 888 888 888	ул. Береговая, 5	☑	☐	ул. Лунная, 8	Стандарт	Unassigned		
26	+996 234 234 234	ул. Цветочная, 9	☑	☑	ул. Радужная, 10	Стандарт	Unassigned		
27	+996 456 456 456	ул. Школьная, 11	☑	☑	ул. Парковая, 12	Стандарт	Unassigned		
28	+996 789 789 789	ул. Линейная, 13	☑	☑	ул. Магистральная, 14	Стандарт	Unassigned		
29	+996 567 456 345	ул. Липовая, 17	☑	☑	ул. Тополиная, 18	Стандарт	Unassigned		
30	+996 567 e432 123	ул Белорусская 18	☑	☑	ул Ахунбаева 23	Стандарт	Unassigned		
			☐	☐					

Все Заказы | Стандарт | Комфорт | Бизнес | Организация

Taxi Dispatcher — Экипажи

| | Заказы | Экипажи | Карта | Отчет | Журнал Звонков | Чат | Помощь | Настройки |

Новый Водитель | Удалить Водителя | Изменить Водителя | Изменить Просмотр

Свободные | На заказе | На перерыве

Id	FullName	CarBrand	CarModel	CarType	CarNumber	PhoneNumber	Year	Color	Status
8	Уран Аскаров	Ford	Focus	Стандарт	Е789ЖК65	+996 194594564	3000	красный	Available
9	Акылбек Бакытбеков -	BMW	5 Series	Комфорт	К123ЛМ77	+996 3495535	2024	серый	Available
10	Айбек Мусаев	Mercedes-Benz	E-Class	Стандарт	М456НО99	+ 996 92394823	2020	черный	Available
11	Наргиз Ким	Audi	A6	Стандарт	О789ПР78	+996 12941235	2020	белый	Available
12	Павел Хван	Nissan	Altima	Комфорт	Р123СТ65	+996 12041235	2019	белый	Available
13	Ислам Дженишбеков	Lexus	ES	Комфорт	С456УФ34	+996 9934345	2018	белый	Available

Все Водители | Стандарт | Комфорт | Бизнес | Организация

Features

Orders

- **Add Order**: Opens a window to add a new order.
- **Delete Order**: Deletes the selected order from the list.
- **Update Order**: Opens a window to edit the selected order.
- **Change View**: Opens a window to modify the visibility of columns in the orders table.

- **Highlight Order**: Allows highlighting and styling specific orders.
- **Complete Order**: Marks the selected order as completed.
- **Assign Order**: Opens a window to assign a driver to the selected order.

Drivers

- **Add Driver**: Opens a window to add a new driver.
- **Delete Driver**: Deletes the selected driver from the list.
- **Update Driver**: Opens a window to edit the selected driver's information.
- **Change View**: Opens a window to modify the visibility of columns in the drivers table.
- **Highlight Driver**: Allows highlighting and styling specific drivers.

Filtering

- **Orders and Drivers Filtering by Categories**:
  - **All Orders/Drivers**: Displays all orders or drivers.
  - **Standard**: Displays orders or drivers of the "Standard" category.
  - **Comfort**: Displays orders or drivers of the "Comfort" category.
  - **Business**: Displays orders or drivers of the "Business" category.
  - **Organization**: Displays orders or drivers of the "Organization" category.

Additional Features

- **Chat**: Simple chat interface for internal communication.
- **Map**: Displays a map centered on Kyrgyzstan.
- **Call Log**: View the call log associated with orders.
- **Report**: View statistics and reports on orders.

Requirements

- **.NET 6.0 SDK or higher**
- **Visual Studio 2022 or higher**
- **SQL Server LocalDB**
- **NuGet Packages**:
  - `GMap.NET.Core`
  - `GMap.NET.WindowsPresentation`

Installation

1. **Clone the repository**

   ```
   git clone https://github.com/enoobis/taxi-management-app.git
   cd taxi-management-app
   ```

2. **Open the solution**

   Open `taxi-management-app.sln` in Visual Studio.

3. **Restore NuGet packages**

   In Visual Studio, right-click the solution in Solution Explorer and select `Restore NuGet Packages`.

4. **Update the database connection string**

   Update the connection string to youre L DB

   ```
   string connectionString = @"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Path
   ```

5. **Build and run the application**

   Press `F5` to build and run the application.

Usage

Main Window

The main window contains tabs for managing orders, drivers, and viewing reports.

Orders Tab

- **Add Order**: Opens a window to add a new order. Enter order details and click "OK".
- **Delete Order**: Deletes the selected order. Select an order from the table and click "Delete".
- **Update Order**: Opens a window to edit the selected order. Select an order and click "Update".
- **Change View**: Opens a window to modify the visibility of columns in the orders table.
- **Highlight Order**: Allows highlighting and styling specific orders.
- **Complete Order**: Marks the selected order as completed. Select an order and click "Complete".
- **Assign Order**: Opens a window to assign a driver to the selected order. Select an order and click "Assign".

Drivers Tab

- **Add Driver**: Opens a window to add a new driver. Enter driver details and click "OK".
- **Delete Driver**: Deletes the selected driver. Select a driver from the table and click "Delete".
- **Update Driver**: Opens a window to edit the selected driver's information. Select a driver and click "Update".

- **Change View**: Opens a window to modify the visibility of columns in the drivers table.
- **Highlight Driver**: Allows highlighting and styling specific drivers.

Filtering Orders and Drivers

- **All Orders/Drivers**: Displays all orders or drivers.
- **Standard**: Displays orders or drivers of the "Standard" category.
- **Comfort**: Displays orders or drivers of the "Comfort" category.
- **Business**: Displays orders or drivers of the "Business" category.
- **Organization**: Displays orders or drivers of the "Organization" category.

Chat Tab

-

Map Tab

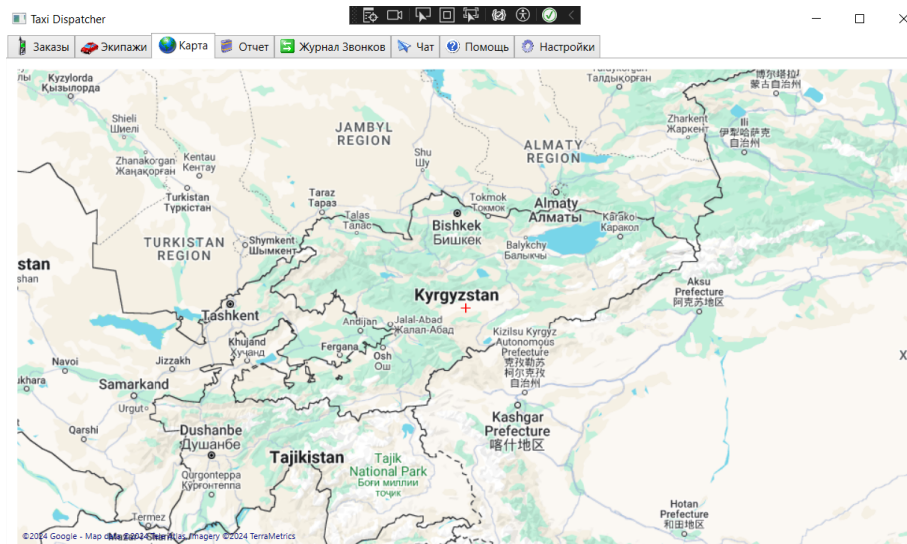- Displays a map centered on Kyrgyzstan using GMap.NET. The map allows users to zoom and pan.

Figure 2: image

Call Log Tab

- View the call log displaying all calls associated with orders.

Help

Settings

- View statistics and reports on orders. Reports include data on order types and their counts.

Troubleshooting

Error: Could not load type 'GMap.NET.Singleton'1'

- Ensure correct versions of GMap.NET packages are installed.
- Check compatibility with the .NET version being used.

Error: GMapControl is not supported in "Windows Presentation Foundation (WPF)" project

- Ensure the GMap namespace is correctly added in the XAML file:

  ```
  xmlns:gmaps="clr-namespace:GMap.NET.WindowsPresentation;assembly=GMap.NET.WindowsPresen
  ```

- Ensure `GMap.NET.Core` and `GMap.NET.WindowsPresentation` packages are installed.

Database connection issues

- Verify the connection string is correct and the database file path is accurate.
- Ensure SQL Server LocalDB is installed and running.

Contributing

1. **Fork the repository**

   Click the `Fork` button in the top right corner of the repository page to create a copy of the repository in your GitHub account.

2. **Clone your fork**

   ```
   git clone https://github.com/yourusername/taxi_management_app.git
   cd taxi_management_app
   ```

3. **Create a branch**

   ```
   git checkout -b feature/your-feature-name
   ```

4. **Make your changes**

   Make changes and commit them with a clear message.

5. **Push your changes**

   ```
   git push origin feature/your-feature-name
   ```

6. **Open a pull request**

   Go to the original repository and open a pull request with a description of your changes.

License

This project is licensed under the MIT License. See the `LICENSE` file for details.