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**Факультет профессиональной переподготовки**

**Разработка информационной системы контроля мгновенного расхода топлива автомобиля**

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Проектная работа по направлению подготовки

«Объектно-ориентированное программирование»

Слушателя Шабурова Ильи Алексеевича

группы ООП-19

Руководитель проектной работы Старший преподаватель

кафедры информационных

технологий в бизнесе

Ланин В. В.

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Автор – Шабуров Илья Алексеевич.

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В итоговой работе рассмотрены вопросы, связанные с работой и устройством информационной системы контроля мгновенного расхода топлива автомобиля, а также требования, на основе которых выполнена реализация программного продукта.

Работа содержит 25 страниц основного текста, состоит из 3 глав и 6 приложений.

Оглавление

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# **Введение**

Автомобили стали неотъемлемой частью жизни человека. С каждым годом их количество на дорогах мира растет, а вместе с ними и растет количество вредных выбросов в атмосферу. Ученые и инженеры работают над повышением экологичности вновь выпускаемых машин, но что же можно сделать с уже выпущенными автомобилями?

Информационная система контроля мгновенного расхода топлива автомобиля позволяет получить информацию о расходе топлива автомобиля в настоящий момент времени, и на основе полученной информации корректировать работу двигателя в сторону более экономичной езды, а с этим и более экологичной.

Целью итоговой проектной работы является разработка информационной системы контроля мгновенного расхода топлива автомобиля для пользователей автомобилей, оснащенных двигателем внутреннего сгорания с микропроцессорным управлением (все современные двигатели) и способных передавать данные в диагностический разъем.

Для достижения указанной цели в работе поставлены следующие задачи:

- анализ разрабатываемой системы;

- формирование требований к разрабатываемой системе;

- проектирование системы;

- разработка системы;

- практический опыт разработки приложений и закрепление знаний, полученных в рамках всей учебной программы.

Для решения поставленных задач были использованы следующие инструменты: язык программирования C#, унифицированный язык моделирования UML, диагностический OBD-II Bluetooth сканер с чипом ELM327 v1.5, а также Bluetooth 4.0 адаптер для ПК.

Глава 1. Анализ задачи и разработка требований к информационной системе контроля мгновенного расхода топлива

Целевой аудиторией информационной системы контроля мгновенного расхода топлива – далее информационная система, являются пользователи автомобилей с двигателем внутреннего сгорания. Указанный двигатель должен быть оснащен микропроцессорным управлением, а также различными датчиками, информация с которых необходима электронному блоку управления двигателем (ЭБУ) для организации правильного режима работы двигателя.

Диагностический Bluetooth сканер имеющий чип ELM327 v1.5 далее – диагностический сканер, является распространенным устройством бюджетного сегмента диагностических сканеров, совмещающий в себе отличную функциональность за приемлемую цену. Сканер является интерпретатором OBD стандарта в RS232 стандарт [1]. Сканер подключается в диагностический разъем автомобиля и способен получить данные с ЭБУ автомобиля, в том числе информацию с различных датчиков двигателя по стандарту OBD-II, работает по системе запрос-ответ по стандарту J1979.

Стандарт OBD-II был разработан в середине 90х годов и позволяет проводить мониторинг систем управления двигателя, стандарт постоянно расширяется и выходят его новые издания [2].

## Формирование требований к разрабатываемой системе

1. Информационная система должна взаимодействовать с диагностическим сканером через последовательный порт и получать данные с ЭБУ автомобиля.
2. Информационная система должна иметь на главном экране кнопки «подключиться» к диагностическому сканеру и «отключиться» от диагностического устройства.
3. Информационная система должна отображать на основном экране информацию о мгновенном расходе топлива в литрах в час (l/h).
4. Частота обновления данных должна составлять минимум 1 раз в секунду.
5. На главном экране должен отображаться график: ось абсцисс – 10 значений, сдвигаемых вправо один раз 6 секунд, в общей сложности 1 минута, ось ординат – усредненный мгновенный расхода топлива за временной промежуток 6 секунд.
6. Если ЭБУ не предоставляет рассчитанную им информацию о мгновенном расходе топлива, информационная система должна рассчитать, основываясь на данных с датчиков массового расхода воздуха или времени открытия форсунок и расчетной производительности форсунок.
7. Информационная система должна содержать меню настроек, в котором выбирается устройство, к которому подключается информационная система.
8. Меню настроек должно иметь поле ввода пользователем расчетной производительности форсунок.

## Формализация требований

Изображение выглядит как текст, карта

Автоматически созданное описаниеНа этапе формализации требований к системе обратимся к диаграмме прецедентов [3, с. 126], представленной на рисунке 1.1:

*Рис.1.1. Диаграмма прецедентов*

У информационной системы есть только один актор – пользователь.

Далее приведено более подробное описание потоков:

1. Название: настройка информационной системы, выбор устройства для подключения

Актор: Пользователь

Краткое описание процесса: Пользователь выбирает диагностический сканер из списка, к которому должна подключиться информационная система

Триггер: открытие настроек информационной системы

Осн. Поток:

|  |  |
| --- | --- |
| Действия акторов | Отклик системы |
| 1. Пользователь нажимает кнопку открытия настроек информационной системы | 1. Система отображает настройки |
| 1. Пользователь нажимает на выпадающий список доступных диагностических сканеров | 1. Система производит поиск устройств. |
|  | 1. Система добавляет устройства в список |
|  | 1. Система отображает список доступных устройств |
| 1. Пользователь выбирает устройство из списка | 1. Система сохраняет устройство в памяти, а также в рабочем файле. |
| 1. Пользователь возвращается на основной экран | 1. Система отрисовывает основной экран с активной кнопкой «Подключить» |

Альтернативный Поток:

|  |  |
| --- | --- |
| Действия акторов | Отклик системы |
| 1. Пользователь нажимает кнопку открытия настроек информационной системы | 1. Система отображает настройки |
| 1. Пользователь нажимает на выпадающий список доступных диагностических сканеров | 1. Система производит поиск окружающих устройств. |
|  | 1. Окружающие устройства не обнаружены |
|  | 1. Система выводит сообщение об отсутствии окружающих устройств |
| 1. Пользователь закрывает настройки | 1. Система отрисовывает основной экран с неактивной кнопкой «Подключить» |

1. Название: настройка информационной системы, установка производительности форсунок

Актор: Пользователь

Краткое описание процесса: Пользователь вводит производительность форсунок

Триггер: открытие настроек информационной системы

Осн. Поток:

|  |  |
| --- | --- |
| Действия акторов | Отклик системы |
| 1. Пользователь нажимает кнопку открытия настроек информационной системы | 1. Система отображает настройки |
| 1. Пользователь вводит производительность форсунок в соответствующее поле | 1. Система сохраняет производительность в памяти, а также в рабочем файле. |
| 1. Пользователь возвращается на основной экран | 1. Система отрисовывает основной экран |

1. Название: подключение к диагностическому сканеру

Актор: Пользователь

Краткое описание процесса: Подключение к диагностическому сканеру, и проверка связи.

Триггер: нажатие на кнопку «Подключить»

Осн. Поток:

|  |  |
| --- | --- |
| Действия акторов | Отклик системы |
| 1. Пользователь нажимает кнопку «Подключить» | 1. Система открывает новое соединение с выбранным в настройках устройством |
|  | 1. Система проверяет идентификацию подключенного устройства |
|  | 1. Система устанавливает статус подключения «Подключено» |

1. Название: получение информации о мгновенном расходе топлива

Актор: Пользователь

Краткое описание процесса: после подключения к диагностическому сканеру информационная система начинает с периодичностью «одна секунда» запрашивать у диагностического сканера информацию о мгновенном расходе топлива, или, если эту информацию сканер не предоставляет, информацию о времени открытия форсунок. Также получает информацию о текущей скорости автомобиля, и отображает ее на экране.

Триггер: статус подключения – «Подключено»

Осн. Поток:

|  |  |
| --- | --- |
| Действия акторов | Отклик системы |
| 1. Пользователь получает информацию о мгновенном расходе топлива | 1. Система опрашивает диагностический сканер |
|  | 1. Система отображает информацию |
|  | 1. Система строит график |
|  | 1. Система отображает статус подключения |

## Описание автоматизируемых активностей с помощью диаграммы активностей

![Изображение выглядит как текст

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAaAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCo0LDQsdGD0YDQvtCyINCY0LvRjNGPAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMyMQAAkpIAAgAAAAMyMQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Oi+LHgRYUB8VaVkKP+XyP/Gnf8LZ8Cbv+Rq0rp/z+R/40AdjgelNUDHTvXI/8LZ8Cf9DVpX/gZH/jTV+LPgQD/katK6/8/kf+NAHYMBt6U7A9K45viz4EK/8AI1aV/wCBkf8AjS/8LZ8Cf9DVpX/gZH/jQB1pA89eP4T/ADFPwPSuMPxY8Cecp/4SrSsbT/y+R+3vT/8AhbPgT/oatK/8DI/8aAOuUDb0oYDI471yC/FnwIB/yNWlf+Bkf+NIfiz4EyP+Kq0rr/z+R/40AdlgelNAG48VyP8AwtnwJ/0NWlf+Bkf+NIPiz4E3H/iqtK/8DI/8aAOxwPSmQgeQnH8I/lXJf8LZ8Cf9DVpX/gZH/jTIvix4EWFAfFWlZCj/AJfI/wDGgDsSBuHFOwPSuOPxZ8CZH/FVaV/4GR/40v8AwtnwJ/0NWlf+Bkf+NAHXADJ4oYDb0rjx8WfAmT/xVWlf+Bkf+NK3xZ8CFf8AkatK/wDAyP8AxoA7HA9KYQPPXj+E/wAxXJf8LZ8Cf9DVpX/gZH/jTD8WPAnnKf8AhKtKxtP/AC+R+3vQB2eB6VyHhgD/AIWF404/5b2n/pOtJ/wtnwJ/0NWlf+Bkf+NUvAetWGueMPGGoaNcxX1pJcWoSa3kV1JEAB5B9RQB2EmlWM96bme1jkm4O9xntjHPb26Z5609tNsdp/0O3/79L/hRRTbb3EoqOyFGm2OP+PO3/wC/S/4Uh02x3D/Q7f8A79L/AIUUUhi/2bY/8+dv/wB+l/wpiabY75P9Dt/vf88l9B7UUUAObTbHaf8AQ7f/AL9L/hS/2bY/8+dv/wB+l/woooAQ6bY7h/odv/36X/Cl/s2x/wCfO3/79L/hRRQBBb6JpkAzHYwg4wcrnPPfPU+/WpJdNsdg/wBDt/vL/wAsl9R7UUU223dijFRVkrD/AOzbH/nzt/8Av0v+FINNsdx/0O3/AO/S/wCFFFIYp02x/wCfO3/79L/hSLptjtH+h2//AH6X/CiigAOm2OR/odv1/wCeS/4Uv9m2P/Pnb/8Afpf8KKKAGJptjvk/0O3+9/zyX0HtRNpVhLCyPZwbWGDiMA/mKKKNgaurMItH06EMI7GABm3EeWCAfb0+gpx02x3D/Q7f/v0v+FFFNtt3YkklZC/2bY/8+dv/AN+l/wAKRdNsef8AQ7fr/wA8l/woopDGy6bY7B/odv8AeX/lkvqPan/2bY/8+dv/AN+l/wAKKKAEGm2O4/6Hb/8Afpf8KU6bY/8APnb/APfpf8KKKAEXTbHaP9Dt/wDv0v8AhUc+j6dOqiWxt2AbOPLA7Ec+vWiimm07oTSasx8elWEcaotnBtUADMYJ/M8mkGm2PnN/odv90f8ALJfU+1FFIew5tNsdp/0O36f88l/wpf7Nsf8Anzt/+/S/4UUUAIdNsdw/0O3/AO/S/wCFL/Ztj/z52/8A36X/AAoooARdNsef9Dt+v/PJf8KbNptj5L/6Hb/dP/LJfT6UUUAP/s2x/wCfO3/79L/hUEmiaZJcrK9jAXUDB2DjBzwP856Hiiimm1sJxUlZonOm2P8Az52//fpf8KRdNsdo/wBDt/8Av0v+FFFIYNptjx/odv1/55L/AIUv9m2P/Pnb/wDfpf8ACiigBg02x85v9Dt/uj/lkvqfannTbH/nzt/+/S/4UUUAIum2O0f6Hb9P+eS/4UNptjkf6Hb9f+eS/wCFFFAC/wBm2P8Az52//fpf8KRdNsef9Dt+v/PJf8KKKAGzabY+S/8Aodv90/8ALJfT6U/+zbH/AJ87f/v0v+FFFACf2bY7v+PO36f88l/wpf7Nsf8Anzt/+/S/4UUUAIum2OP+PO36/wDPJf8AChtNsdv/AB52/wD36X/CiigBf7Nsf+fO3/79L/hTBptj5zf6Hb/dH/LJfU+1FFADzptj/wA+dv8A9+l/wpF02x2j/Q7fp/zyX/CiigAbTbHI/wBDt+v/ADyX/Cl/s2x/587f/v0v+FFFACDTbHcf9Dt/+/S/4Uv9m2P/AD52/wD36X/CiigBkOm2Pkp/odv90f8ALJfT6U7+zbHd/wAedv0/55L/AIUUUAL/AGbY/wDPnb/9+l/wpF02xx/x52/X/nkv+FFFAA2m2O3/AI87f/v0v+FL/Ztj/wA+dv8A9+l/woooAYdNsfOX/Q7f7p/5ZL6j2p/9m2P/AD52/wD36X/CiigBF02x2/8AHnb/APfpf8KG02xyP9Dt+v8AzyX/AAoooAX+zbH/AJ87f/v0v+FINNsdx/0O3/79L/hRRQAv9m2P/Pnb/wDfpf8ACmQ6bY+Sn+h2/wB0f8sl9PpRRQA46bY7h/odv/36X/Cl/s2x/wCfO3/79L/hRRQAg02xyf8AQ7f/AL9L/hQ2m2O3/jzt/wDv0v8AhRRQAv8AZtj/AM+dv/36X/CmHTbHzl/0O3+6f+WS+o9qKKAH/wBm2P8Az52//fpf8Kfb20Fup8iGOLd12IBn8qKKAP/Z)Для более полного понимания бизнес-процессов, происходящих в информационной системе, построим диаграммы активностей(деятельности) [4, с. 280]. Диаграммы активностей описывают взаимодействие актора и системы, демонстрируя его действия на каждом этапе. Диаграммы представлены на рисунках 1.2 – 1.5.

*Рис.1.2. Диаграмма активностей, запуск информационной системы*

*Рис.1.3. Диаграмма активностей, настройка информационной системы*

*![Изображение выглядит как текст, карта

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAaAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCo0LDQsdGD0YDQvtCyINCY0LvRjNGPAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Рис.1.4. Диаграмма активностей, подключение к диагностическому сканеру* ![Изображение выглядит как текст, карта

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAaAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCo0LDQsdGD0YDQvtCyINCY0LvRjNGPAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM5OAAAkpIAAgAAAAM5OAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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T8if99n/CgB+0UiqOfrSZl/uJ/wB9n/CkUy8/InX++f8ACgBxUbhS7RTCZdw+RP8Avs/4UuZf7if99n/CgDg/gioPwf0j/rpdf+lUtd6FHP1rgfgkZP8AhUGkbVUjzLrq2P8Al6l9q7wGXn5E6/3z/hQA4qNy0FRg00mXcvyJ/wB9n/CgmXB+RP8Avs/4UAOCjaKaFHnt/uj+ZoBlwPkT/vs/4U0GTz2+RPuj+I+p9qAJGUcfWgqMGmsZePkTr/fP+FBMuD8if99n/CgByqNo+lAUbjTVMu0fInT++f8ACgGXcfkT/vs/4UAEqjYP95f5in7RUUpk2D5E+8v8R9R7U/Mv9xP++z/hQAqqNtG0b/wpqmXb9xP++z/hRmXf9xOn98/4UAOZRx9aXaKYxl4+ROv98/4UuZf7if8AfZ/woASJRsP+838zTto3fhUcRk2H5E+838R9T7U7Mu77idP75/woAcyjaaXaKYxl2n5E/wC+z/hS5l/uJ/32f8KAFVRz9aaVHnr/ALp/mKAZefkTr/fP+FNJk89fkT7p/iPqPagCRlG00u0UxjLtPyJ/32f8KXMv9xP++z/hQAqqOfrQVG4U1TLz8idf75/woJl3D5E/77P+FAD9oo2im5l/uJ/32f8ACjMv9xP++z/hQAoUc/WgqNy00GXn5E6/3z/hQTLuX5E/77P+FADiowaAo2imky4PyJ/32f8ACgGXA+RP++z/AIUAAUee3+6P5muU+Kaj/hWOtf8AXEf+hrXUgyee3yJ90fxH1PtXKfFMyf8ACsdayqgeSOjf7a+1AHYbRRTcy/3E/wC+z/hRQBzmqMP+Fk+Huf8Alyvv5wV0UrDYOf4l/mKoat4d0fX2i/trTre98jPlecm7ZnGcfXA/KsuX4eeEAox4d0/7y/8ALEeooA6bcPWkVht61zv/AArvwh/0Lun/APfkUi/Dvwhj/kXdP/78igDo9w39e1DMNp5rm/8AhXfhDf8A8i7p/T/niKVvh34Q2/8AIu6f/wB+RQB0m4etMiYbDz/E38zXP/8ACu/CH/Qu6f8A9+RTIvh54QKnPh3T/vN/yxHqaAOl3Df17UMw2nmuc/4V34Q3f8i7p/T/AJ4ikb4d+ENp/wCKd0//AL8igDpdw9aRWHPPeud/4V34Q/6F3T/+/IpB8O/CHP8AxTun9f8AniKAOk3D1pGYbTzXO/8ACu/CH/Qu6f8A9+RSN8O/CG0/8U7p/wD35FAHSbh60isOee9c7/wrvwh/0Lun/wDfkU1fh34Q5/4p3T+v/PEUAdIWG4c0u4etc2fh34Q3D/indP8A+/Ipf+Fd+EP+hd0//vyKAOghYeRHz/CP5U4MMnnvXNRfDzwgYUJ8O6fnaP8AliKcPh34Qyf+Kd0/r/zxFAHRlhuXmgsMHmubPw78Ibh/xTun/wDfkUp+HfhDB/4p3T/+/IoA6MMNo5poYee3P8I/ma54fDvwhgf8U7p//fkU0fDzwh5zD/hHdPxtH/LEe9AHSsw4570u4etc23w78Icf8U7p/X/niKX/AIV34Q/6F3T/APvyKAOiVhtHPagMNx5rnB8O/CG0f8U7p/T/AJ4igfDvwhuP/FO6f/35FAHQysNg5/iX+Yp+4etczL8PPCAUY8O6f95f+WI9RT/+Fd+EP+hd0/8A78igDolYbetG4b+vaucX4d+EMf8AIu6f/wB+RSf8K78Ib/8AkXdP6f8APEUAdIzDjnvS7h61zbfDvwhx/wAU7p/X/niKX/hXfhD/AKF3T/8AvyKAM3wcw/4WF495/wCX+1/9JI67TcN/XtXLwfDfwarSSDw5YbpGO4+V1wcD9Kl/4V34Q3f8i7p/T/niKAOjZhtPNLuHrXNN8O/CG0/8U7p//fkU7/hXfhD/AKF3T/8AvyKAOiVhzz3ppYeevP8ACf5iueHw78Ic/wDFO6f1/wCeIpp+HnhDzlH/AAjun42n/liPagDpWYbTzS7h61zbfDvwhtP/ABTun/8AfkUv/Cu/CH/Qu6f/AN+RQB0SsOee9BYbhzXNr8O/CHP/ABTun9f+eIpT8O/CG4f8U7p//fkUAdJuHrTIWHkR8/wj+Vc//wAK78If9C7p/wD35FMi+HnhAwoT4d0/O0f8sRQB0qsOee9BYbl5rnB8O/CHP/FO6f1/54ikPw78Ibh/xTun/wDfkUAdIWGDzQGG0c1zh+HfhDB/4p3T/wDvyKB8O/CGB/xTun/9+RQB0IYee3P8I/maczDjnvXND4eeEPOYf8I7p+No/wCWI96c3w78Icf8U7p/X/niKAOjLDB5oVhtHPaucPw78IYP/FO6f/35FA+HfhDaP+Kd0/p/zxFAHRhhuPNNlYbBz/Ev8xXPD4d+ENx/4p3T/wDvyKbL8PPCAUY8O6f95f8AliPUUAdNuHrSKw29a53/AIV34Q/6F3T/APvyKRfh34Qx/wAi7p//AH5FAHR7hv69qGYcc965v/hXfhDf/wAi7p/T/niKVvh34Q4/4p3T+v8AzxFAHSbh60yJhsPP8TfzNc//AMK78If9C7p//fkUyL4eeECpz4d0/wC83/LEepoA6XcN/XtQzDaea5z/AIV34Q3f8i7p/T/niKRvh34Q2n/indP/AO/IoA6XcPWkVhzz3rnf+Fd+EP8AoXdP/wC/IpB8O/CHP/FO6f1/54igDoSw89ef4T/MU5mG081zR+HnhDzlH/CO6fjaf+WI9qc3w78IbT/xTun/APfkUAdJuHrSKw5571zv/Cu/CH/Qu6f/AN+RTV+HfhDn/indP6/88RQB0hYbhzS7h61zZ+HfhDcP+Kd0/wD78il/4V34Q/6F3T/+/IoAxPgiwHwf0jJ/5aXX/pVLXeqw5571y9p8NvBsNpGkfhzTwoXP+qz15qUfDvwhz/xTun9f+eIoA6MsNy80Fhg81zZ+HfhDcP8AindP/wC/IpT8O/CGD/xTun/9+RQB0YYbRzTQw89uf4R/M1zw+HfhDA/4p3T/APvyKaPh54Q85h/wjun42j/liPegDpWYcc96Cwwea5xvh34Q4/4p3T+v/PEUH4d+EMH/AIp3T/8AvyKAOjVhtHPagMNx5rnB8O/CG0f8U7p/T/niKB8O/CG4/wDFO6f/AN+RQB0MrDYOf4l/mKfuHrXMy/DzwgFGPDun/eX/AJYj1FP/AOFd+EP+hd0//vyKAOiVht60bhv69q5xfh34Qx/yLun/APfkUn/Cu/CG/wD5F3T+n/PEUAdIzDjnvS7h61zbfDvwhx/xTun9f+eIpf8AhXfhD/oXdP8A+/IoA6CJhsPP8TfzNO3Df17VzUXw88IFTnw7p/3m/wCWI9TTv+Fd+EN3/Iu6f0/54igDo2YbTzS7h61zTfDvwhtP/FO6f/35FO/4V34Q/wChd0//AL8igDolYc896aWHnrz/AAn+Yrnh8O/CHP8AxTun9f8AniKafh54Q85R/wAI7p+Np/5Yj2oA6VmG080u4etc23w78IbT/wAU7p//AH5FL/wrvwh/0Lun/wDfkUAdErDnnvQWG4c1za/Dvwhz/wAU7p/X/niKU/DvwhuH/FO6f/35FAHSbh60bh61zn/Cu/CH/Qu6f/35FH/Cu/CH/Qu6f/35FAHRKw5570FhuXmucHw78Ic/8U7p/X/niKQ/DvwhuH/FO6f/AN+RQB0hYYPNAYbRzXOH4d+EMH/indP/AO/IoHw78IYH/FO6f/35FAHQhh57c/wj+ZrlPimw/wCFY61z/wAsR/6GtWB8PPCHnMP+Ed0/G0f8sR704/Dvwhkf8U7p/X/niKAOk3D1opaKAP/Z)

Изображение выглядит как текст, снимок экрана

Автоматически созданное описание

*Рис.1.5. Диаграмма активностей, получение информации с диагностического сканера*

Диагностический Bluetooth сканер с чипом ELM327 v1.5 позволяет «общаться» с ним через последовательный порт по Bluetooth соединению, что накладывает некоторые особенности в передаче и получении пакетов. Отправка и получение данных происходит через буферы отправки и приема соответственно. Информация, получаемая от диагностического сканера, может записываться в буфер приема продолжительное время, вплоть до нескольких секунд. В связи с вышесказанным процесс опроса диагностического сканера будет происходить асинхронными сообщениями.

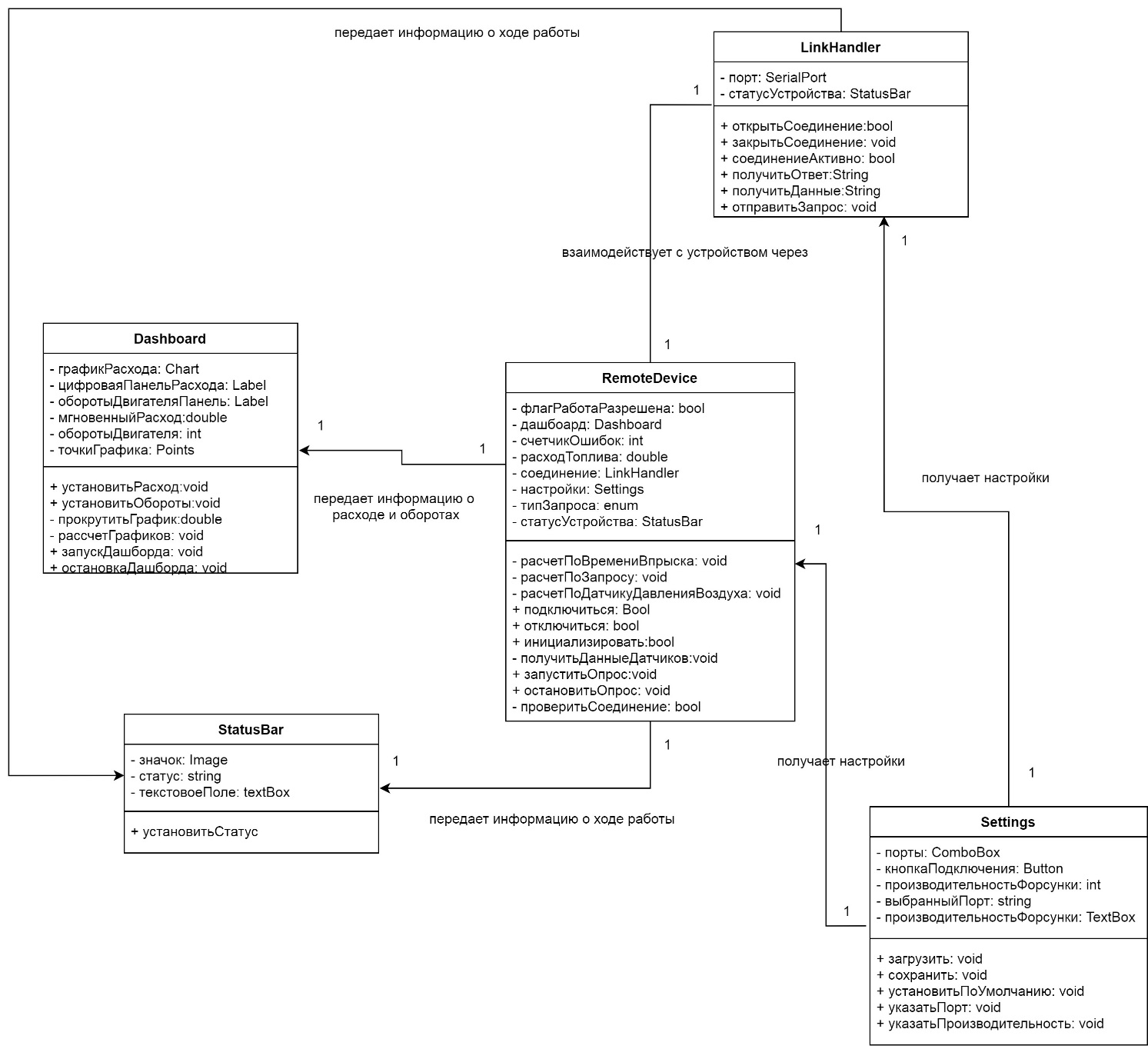
Изображение выглядит как снимок экрана

Автоматически созданное описаниеДля более полного анализа процесса работы информационной системы, рассмотрим прецедент «общения» через нотацию диаграммы последовательностей на рисунке 1.6.

*Рис.1.6. Диаграмма последовательностей, получение информации с диагностического сканера*

Глава 2. Проектирование системы

На рисунке 2.1 представлена диаграмма классов, представляющая собой структуру сущностей системы и отображающая основные понятия, структуру классов и их отношения между собой.



*Рис.2.1. Диаграмма классов*

Рассмотрим каждый класс поподробнее.

2.1. StatusBar

Класс «StatusBar» представляет собой объединение из двух отдельных элементов, объединенных общим принципом работы. Данный класс принимает строковую переменную и выводит ее значение на главный экран. Между тем, в зависимости от информации в этой переменной, на экран также выводится зеленый сигнал, или красный. Зеленый сигнал означает что соединение с диагностическим сканером успешно установлено, оно отвечает на запросы. Красный сигнал означает что связи с устройством нет.

*Таблица 2.1. Класс StatusBar*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| значок | Image | Изображение зеленого или красного сигнала |
| статус | string | Текстовая информация, подлежащая выводу на главный экран |
| текстовоеПоле | textBox | Объект на главном экране, который отображает текст |

2.2. LinkHandler

Класс LinkHandler (табл. 2.2.) осуществляет обмен данными с COM портом, к которому подключен диагностический сканер. Основные функции этого класса: оформление сообщений в нужный формат, прием и отправка сообщений, разбор полученных данных на заголовок и основную информацию.

*Таблица 2.2. Класс LinkHandler*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| порт | SerialPort | Объект COM порта, с которым происходит обмен данными |
| статусУстройства | StatusBar | Объект, выводящий информацию в строку статуса |

2.3. Settings

Класс Settings (табл. 2.3.) содержит в себе настройки, которые устанавливаются пользователем, а также набор объектов, которые должны реагировать на изменение настроек, например если не выбран порт для передачи данных, то кнопка «Подключить» должны быть неактивная, но, если порт будет выбран, кнопка «Подключить» должна быть активная. Также, данный класс отвечает за сохранение настроек программы во внешнем файле, и их загрузку при следующем запуске приложения.

*Таблица 2.3. Класс Settings*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| порты | ComboBox | Объект выпадающего списка, содержит все доступные порты. Из него получаем информацию о выбранном порте, также заносим в него информацию при загрузке настроек |
| кнопкаПодключения | Button | Объект кнопки подключения, становится активной если есть выбранный порт, и неактивна если порт не выбран. |
| производительностьФорсунки | int | Данные о производительности форсунок, которые были введены пользователем |
| выбранныйПорт | string | Имя порта для подключения и работы |
| производительностьФорсунки | TextBox | Объект, из которого получаем информацию о введенной пользователем производительности форсунок |

2.4. Dashboard

Класс Dashboard (табл. 2.4.) представляет из себя группу элементов, выводящих обработанную информацию от диагностического сканера на главном экране. В основные функции данного класса входит прием обработанной информации от класса RemoteDevice и правильное отображение, в виде цифрового значения и обеспечение логики построения графика.

*Таблица 2.4. Класс Dashboard*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| графикРасхода | Chart | Объект выводящий на главный экран график с данными о расходе состоит из 10 шкал, «сдвигаемых» раз в 6 секунд. |
| цифроваяПанельРасхода | Label | Объект, выводящий данные о мгновенном расходе в цифровом виде |
| оборотыДвигателяПанель | Label | Объект, выводящий информацию об оборотах двигателя |
| мгновенныйРасход | double | Мгновенный расход топлива, данный атрибут перезаписывается, когда класс RemoteDevice передал новую информацию |
| оборотыДвигателя | int | Обороты двигателя, то же, что и мгновенный расход |
| точкиГрафика | Points | Точки графика, 10 штук, содержат историю длиной в 1 минуту, о средних расходах за 6 секунд |

2.5. RemoteDevice

Класс RemoteDevice (табл. 2.5.) организует основную работу по опросу диагностического сканера, проводит обработку информации, расчёт данных, а также производит переключение методики расчёта данных если выбранная не работает.

*Таблица 2.5. Класс RemoteDevice*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| флагРаботаРазрешена | bool | Опрос диагностического сканера планируется в асинхронном от графической оболочки режиме, поэтому этот флажок нужен для запуска/остановки работы потока. |
| дашбоард | Dashboard | Объект, выводящий информацию на основной экран. |
| счетчикОшибок | int | Счетчик, который применяется для подсчета ошибок соединения, например если данные не были получены, необходим чтобы переключить методику расчёта, а с тем и запрашиваемые данные |
| расходТоплива | double | Рассчитанный мгновенный расход топлива |
| соединение | LinkHandler | Обработчик соединения с диагностическим сканером, через него отправляем/получаем данные |
| настройки | Settings | Объект, отвечающий за настройки их сохранение и загрузку |
| типЗапроса | enum | Содержит имена методик расчёта мгновенного расхода топлива, применяется при необходимости сменить методику |
| статусУстройства | StatusBar | Объект, выводящий информацию о статусе соединения с диагностическим сканером |

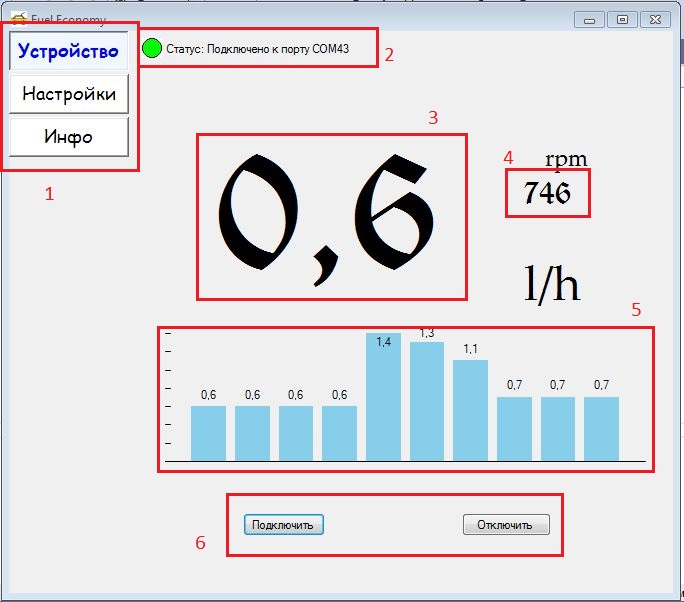
Глава 3. Реализация информационной системы контроля мгновенного расхода топлива

В данной главе будут представлены примеры работы информационной системы с описанием функций и элементов управления, тесты информационной системы.

Важным этапом разработки информационной системы является выбор её оформления для хорошей читаемости, а также удобства использования. Представленная информационная система выполнена с использованием многопоточности [5, с. 833]. Интерфейс выполнен в контрастных тонах, и минималистичном дизайне в windows forms [6].

### 3.1. Главный экран информационной системы

Главный экран работающей информационной системы показан на рисунке 3.1.



*Рис.3.1. Главный экран информационной системы*

Основные элементы:

1. Панель переключения экранов.
2. Панель статуса. Состоит из зеленого или красного круга, означающего состояние «Подключено» или «Отключено» соответственно, а также текстового поля статуса подключения. В текстовом поле отображается статус подключения, ошибки подключения, основные операции, проводимые программой. Например: «Ошибка, устройство не прошло проверку. Неизвестное устройство» или «Подключено. Расчет через показания датчика времени открытия форсунок».
3. Цифровое отображение мгновенного расхода топлива с точностью до десятых.
4. Информация о текущих оборотах двигателя.
5. График. Левые столбец «копит» среднее значение расхода топлива за промежуток 6 секунд, после чего, столбцы сдвигаются вправо, левый столбец обнуляется и цикл повторяется. Данная схема позволяет видеть усредненную ситуацию потребления топлива за последнюю минуту и скорректировать движение таким образом, чтобы не было резких перепадов значений между столбцами.
6. Основные кнопки, с которыми чаще всего будет происходить взаимодействие пользователя. Кнопка «Подключить» является интерактивной, она неактивна, если в настройках не выбран порт, или если сохраненный в настройках порт отсутствует. Кнопка «Отключить» разрывает связь.

### 3.2. Экран настроек информационной системы

Экран с настройками показан на рисунке 3.2.

Основные элементы:

1. Последовательный порт (COM) компьютера, к которому подключен диагностический сканер. Выбирается из выпадающего списка. Информационная система опрашивает операционную систему (Windows) на наличие последовательных портов и выводит их список. Для работы информационной системы необходимы определенные условия:

* Подключен Bluetooth адаптер и установлены драйвера для него.
* Диагностический сканер должен быть сопряжен с адаптером, операционная система (Windows) должна определить соединение как соединение через последовательный порт и присвоить имя порту, например COM43.

1. Расчётная производительность форсунок измеряется в cc/min (см3/мин), необходима для расчета по одному из методов.
2. Кнопка «По умолчанию» данная кнопка сбрасывает настройки на стандартные: порт – не выбран, производительность форсунок равна нулю.

![Изображение выглядит как снимок экрана

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAaAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCo0LDQsdGD0YDQvtCyINCY0LvRjNGPAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMwNwAAkpIAAgAAAAMwNwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Рис.3.2. Экран настроек информационной системы*

### 3.3. Тестирование информационной системы

Тестируем информационную систему по критериям чёрного ящика [7, с. 18]. Критерии черного ящика представлены в таблице 3.1.

*Таблица 3.1. Критерии оценки информационной системы*

| № теста | Начальное состояние | Внешние действия | Ожидаемый результат |
| --- | --- | --- | --- |
| 1 | Выбран порт, к которому подключено устройство | Нажатие на кнопку «По умолчанию» | Сброс выпадающего списка в состояние «Не выбрано» |
| 2 | Расчетная производительность форсунок установлена | Нажатие на кнопку «По умолчанию» | Расчетная производительность форсунок становится равно нулю |
| 3 | Выбрана вкладка «Устройство» | Нажатие на вкладку «Настройки» | Открытие настроек приложения |
| 4 | Выбран порт, к которому подключено сканер | Нажатие на кнопку «По умолчанию» | Кнопка «Подключить» на вкладке «Устройство» - неактивна (не нажимается) |
| 5 | Порт не выбран | Выбор порта из выпадающего списка | Кнопка «Подключить» на вкладке «Устройство» - активна (можно нажать) |
| 6 | Выбран другой порт, к которому не подключен сканер | Нажатие кнопки «Подключить» | Статус имеет красный цвет. Выводится сообщение об ошибке. |
| 7 | Подключение к порту не удалось, имеется сообщение об ошибке | Повторное нажатие на кнопку подключить | Выводится сообщение об открытом порте. Выводится сообщение о необходимости закрыть порт |
| 8 | Имеется сообщение о необходимости закрыть порт | Нажатие кнопки «Отключить» | Вывод статуса «Отключено» |
| 9 | Выбран порт на к которому подключен сканер | Нажатие кнопки «Подключить» | Статус имеет зеленый цвет. Выводится сообщение «Подключено». |
| 10 | Подключено к сканеру, статус «Подключено» | Отсутствие данных о мгновенном расходе напрямую из ЭБУ | Переключение на метод расчета по времени открытия форсунок |
| 11 | Подключено к сканеру, статус «Подключено» | Производительность форсунок равна нулю | Вывод сообщения «Информация о производительности форсунок отсутствует» в течение трех секунд, переключение расчета через давление воздуха во впускном коллекторе |
| 12 | Подключено к сканеру, статус «Подключено»  Производительность форсунок НЕ равна нулю | Отсутствие данных о времени открытия форсунок | Переключение расчета на расчет через давление воздуха во впускном коллекторе |
| 13 | Подключено, зеленый статус | Нажатие кнопки «Отключить» | Красный статус, надпись «Отключено» |
| 14 | Подключено | Получаем данные от диагностического сканера | На главном экране отображаются данные, каждые 6 секунд столбцы на графике сдвигаются вправо |
| 15 | Порт выбран, производительность форсунок установлена | Закрываем, а потом открываем приложение | Настройки загрузились и применились, кнопка «Подключить» активна |
| 16 | Порт выбран, производительность форсунок установлена | Закрываем приложение,  Выбранный порт удален с компьютера | Настройки загрузились, порт не выбран, кнопка «Подключить» неактивна |

Заключение

В ходе выполнения работы по разработке информационной системы контроля мгновенного расхода топлива автомобиля были решены поставленные задачи. Основная цель – мониторинг и информирование пользователя о мгновенном расходе топлива, с целью принятия дальнейших действий для его сокращения, достигнута.

На стадии анализа задачи и разработки требований были выделены четыре основных прецедента использования информационной системы. Дальнейший анализ, с использование диаграмм активностей позволил конкретизировать основную логику работы информационной системы, и ее реакцию на различные действия пользователя. Например, анализ ввода настроек позволил организовать интуитивное управление, не отнимающее лишнее время у пользователя.

Диаграмма последовательностей позволила прояснить нюансы работы с периферийным устройством - диагностическим сканером, и учесть эти нюансы в работе информационной системы. Если бы, в информационной системе, не была учтена особенность продолжительности заполнения буфера, вся работа информационной системы была бы нарушена, по причине невозможности получения данных из неполных сообщений.

На этапе проектирования были выделены основные объекты (шесть классов), взаимодействие которых позволяет организовать простую и понятную схему. Понятное взаимодействие, в свою очередь, сокращает затраты как временные, так и финансовые на поддержку приложения. Между тем, поддержка приложения может занимать значительную часть жизненного цикла информационной системы. Правильно заложенная архитектура информационной системы позволяет реализовывать впоследствии любые задачи, без значительных трудозатрат.

Потенциал у разработанной информационной системы велик: расширение количества обрабатываемой информации, добавление дополнительных датчиков и сканеров, улучшение пользовательского интерфейса и удобства использования.

Итогом данной проектной работы стала информационная система полезная большой группе людей - водителям, косвенно влияющая на экологию и экономику. Работа над данным проектом позволила углубить и закрепить знания, полученные в ходе обучения.

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**Приложениe А. Листинг 1. Класс MySettings**

using System;

using System.Collections.Generic;

using System.Windows.Forms;

namespace FuelEconomy

{

class MySettings

{

private string selectedPort = null;

private UInt32 injectorPerformance = 0;

private Button connectButton = null;

private ComboBox cbPorts = null;

private TextBox injPerformanceTextBox = null;

public MySettings(ref Button connBut, ref ComboBox cb, ref TextBox tb)

{

connectButton = connBut;

cbPorts = cb;

injPerformanceTextBox = tb;

}

public string SelectedPort

{

get

{

return selectedPort;

}

set

{

selectedPort = value;

if (selectedPort != null)

connectButton.Enabled = true;

else

{

cbPorts.Text = "Не выбрано";

connectButton.Enabled = false;

}

saveSettings();

}

}

public UInt32 InjectorPerformance

{

get

{

return injectorPerformance;

}

set

{

injectorPerformance = value;

saveSettings();

}

}

public void loadSettings()

{

injectorPerformance = Properties.Settings.Default.injectorPerformance;

List<string> ports = MainForm.getCOMports();

if (ports.Contains(Properties.Settings.Default.linkPort))

SelectedPort = Properties.Settings.Default.linkPort;

else

SelectedPort = null;

cbPorts.Text = SelectedPort == null ? "Не выбрано" : SelectedPort;

cbPorts.SelectedItem = SelectedPort == null ? "Не выбрано" : SelectedPort;

injPerformanceTextBox.Text = InjectorPerformance.ToString();

}

public void saveSettings()

{

Properties.Settings.Default.linkPort = SelectedPort;

Properties.Settings.Default.injectorPerformance = InjectorPerformance;

Properties.Settings.Default.Save();

}

public void setSettingsToDefault()

{

SelectedPort = null;

InjectorPerformance = 0;

cbPorts.SelectedItem = SelectedPort;

injPerformanceTextBox.Text = "0";

}

}

}

**Приложениe Б. Листинг 2. Класс Dashboard**

using System;

using System.Threading;

using System.Windows.Forms;

using System.Windows.Forms.DataVisualization.Charting;

namespace FuelEconomy

{

class Dashboard

{

private Chart chartDashboard = null;

private Label digitDashboard = null;

private Label rpmDashboard = null;

private double fuelRate = 0;

private int rpm = 0;

private bool isAllowed = false;

private double FuelRate

{

get

{

return fuelRate;

}

set

{

if (value >= 0 && value < 100)

{

value = Math.Round(value, 1);

fuelRate = value;

string str = value.ToString();

try { digitDashboard.Invoke(new Action<string>(digitDBappendText), str.Contains(",") ? str : str + ",0"); }

catch { }

}

}

}

private int RPM

{

get

{

return rpm;

}

set

{

if (value >= 0 && value < 9000)

{

rpm = value;

try { rpmDashboard.Invoke(new Action<string>(rpmDBappendText), value.ToString()); }

catch { }

}

}

}

private System.Timers.Timer tm;

private bool isTimeElapsed = false;

private Thread averageValueThread = null;

private Series s = new Series();

private DataPoint dp0 = new DataPoint(1, 0);

private DataPoint dp1 = new DataPoint(2, 0);

private DataPoint dp2 = new DataPoint(3, 0);

private DataPoint dp3 = new DataPoint(4, 0);

private DataPoint dp4 = new DataPoint(5, 0);

private DataPoint dp5 = new DataPoint(6, 0);

private DataPoint dp6 = new DataPoint(7, 0);

private DataPoint dp7 = new DataPoint(8, 0);

private DataPoint dp8 = new DataPoint(9, 0);

private DataPoint dp9 = new DataPoint(10, 0);

public Dashboard(ref Chart cdb, ref Label ddb, ref Label rpm)

{

chartDashboard = cdb;

digitDashboard = ddb;

rpmDashboard = rpm;

s.IsValueShownAsLabel = true;

s.Points.Add(dp0);

s.Points.Add(dp1);

s.Points.Add(dp2);

s.Points.Add(dp3);

s.Points.Add(dp4);

s.Points.Add(dp5);

s.Points.Add(dp6);

s.Points.Add(dp7);

s.Points.Add(dp8);

s.Points.Add(dp9);

chartDashboard.Series.Add(s);

tm = new System.Timers.Timer(6000);

tm.Elapsed += Timer\_Elapsed;

}

/\*\*

\* основная работа по отрисовке графика

\*/

private void chartWork()

{

double summ = 0;

double average = 0;

int averIterationCount = 0;

while (isAllowed)

{

tm.Start();

while (!isTimeElapsed)

{

if (!isAllowed)

break;

averIterationCount++;

summ += FuelRate;

average = Math.Round(summ / averIterationCount, 1);

try

{

s.Points[0].YValues[0] = average;

chartDashboard.Invoke(new Action(update));

chartDashboard.Invoke(new Action(recalculateAxes));

}

catch

{ return; }

Thread.Sleep(100);

}

if (!isAllowed)

break;

rollChart(average);

s.Points[0].YValues[0] = 0; //сбросим левый столбик графика

chartDashboard.Invoke(new Action(update));

summ = 0;

average = 0;

averIterationCount = 0;

isTimeElapsed = false;

tm.Stop();

Thread.Sleep(10);

}

}

private void recalculateAxes()

{

chartDashboard.ChartAreas[0].RecalculateAxesScale();

}

private void update()

{

chartDashboard.Update();

}

private void digitDBappendText(string str)

{

digitDashboard.Text = str;

}

private void rpmDBappendText(string str)

{

rpmDashboard.Text = str;

}

private void rollChart(double param)

{

for (int i = 9; i > 0; i--)

s.Points[i].YValues[0] = s.Points[i - 1].YValues[0];

s.Points[0].YValues[0] = param;

chartDashboard.Invoke(new Action(update));

}

/\*\*

\* событие окончания таймера

\*/

private void Timer\_Elapsed(object sender, System.Timers.ElapsedEventArgs e)

{

isTimeElapsed = true;

}

public void setFuelRate(double param)

{

FuelRate = param;

}

/\*\*

\* запуск основной работы по отрисовке дашборда

\*/

public void startChartWork()

{

if (averageValueThread != null)

averageValueThread.Abort();

averageValueThread = new Thread(chartWork);

isAllowed = true;

averageValueThread.Start();

}

/\*\*

\* остановка работы

\*/

public void stopChartWork()

{

isAllowed = false;

}

public void setRPM(int rpm)

{

RPM = rpm;

}

}

}

**Приложениe В. Листинг 3. Класс MyLinkHandler**

using System;

using System.Collections.Generic;

using System.IO.Ports;

using System.Linq;

using System.Text;

using System.Threading;

using System.Threading.Tasks;

namespace FuelEconomy

{

class MyLinkHandler

{

private SerialPort linkPort = null;

private StatusBar statusBar = null;

private System.Timers.Timer listenTimer;

private bool timerFlag = true;

public MyLinkHandler(ref SerialPort port, ref StatusBar sb)

{

statusBar = sb;

linkPort = port;

//настроим порт

linkPort.ReadTimeout = 6000;

linkPort.NewLine = "\n";

}

/\*\*

\* получение сообщения из порта и парсинг его на заголовок и данные, возвращет только данные

\*/

public string getData(string request)

{

try

{

if (request.Length != 0)

{

request += "\r";

linkPort.WriteLine(request);

}

}

catch

{

return "";

}

string res = "";

getAnswer(ref res, 3000);

if (res.Length < 4)

return "";

res = res.Replace(" ", "");

request = request.Replace("01", "41");

request = request.Trim();

if (res.Contains(request))

res = res.Replace(request, "");

res = res.Replace(">", "");

res = res.Trim();

return res;

}

/\*\*

\* приём строки, формирование запроса и отправка в порт

\*/

public bool send(string str)

{

try

{

if (str.Length != 0)

{

str += "\r";

linkPort.WriteLine(str);

}

}

catch

{

return false;

}

return true;

}

/\*\*

\* ожидание ответа в течении timeout

\* наличие завершающего символа ">" выходит досрочно из цикла ожидания

\*/

public void getAnswer(ref string str, int timeout = 1000)

{

linkPort.ReadTimeout = timeout;

timerFlag = true;

str = "";

listenTimer = new System.Timers.Timer(timeout);

listenTimer.Elapsed += Timer\_Elapsed;

listenTimer.Start();

while (timerFlag)

{

try {str += linkPort.ReadExisting();}

catch { break; }

if (str.Contains(">"))

break;

}

listenTimer.Stop();

}

/\*\*

\* открытие соединения

\*/

public bool open(string portName)

{

if (!linkPort.IsOpen)

{

linkPort.PortName = portName;

}

else

{

string str = "Ошибка. Порт " + linkPort.PortName + " уже открыт, необходимо отключиться от порта";

statusBar.setStatus(str);

return false;

}

try { linkPort.Open(); }

catch

{

statusBar.setStatus("Ошибка, подключение к порту невозможно");

return false;

}

return true;

}

/\*\*

\* закрытиие соединения

\*/

async public void close()

{

await Task.Run(() =>

{

try { linkPort.Close(); }

catch { statusBar.setStatus("Ошибка закрытия порта"); return; }

if (!linkPort.IsOpen)

statusBar.setStatus("Отключено");

});

}

public bool isActive()

{

return linkPort.IsOpen;

}

/\*\*

\* событие окончания таймера

\*/

private void Timer\_Elapsed(object sender, System.Timers.ElapsedEventArgs e)

{

timerFlag = false;

}

}

}

**Приложениe Г. Листинг 4. Класс StatusBar**

using System;

using System.Windows.Forms;

namespace FuelEconomy

{

class StatusBar

{

private string status;

private string Status

{

get

{

return status;

}

set

{

status = "Статус: " + value;

if (status.Contains("Статус: Подключено"))

imageBar.Image = global::FuelEconomy.Properties.Resources.Connected;

else

imageBar.Image = global::FuelEconomy.Properties.Resources.Disconnected;

}

}

private Label imageBar;

private Label textBar;

public StatusBar(ref Label imgLabel, ref Label txtLabel)

{

imageBar = imgLabel;

textBar = txtLabel;

}

private void setStatusDirectly(string inputStatus)

{

Status = inputStatus;

textBar.Text = Status;

}

public void setStatus(string s)

{

try { textBar.Invoke(new Action<String>(setStatusDirectly), s); }

catch { return; }

}

}

}

**Приложениe Д. Листинг 5. Класс RemoteDevice**

using System;

using System.IO.Ports;

using System.Threading;

namespace FuelEconomy

{

class RemoteDevice

{

private MyLinkHandler link = null;

private StatusBar statusBar = null;

private Dashboard dashboard = null;

private MySettings mySettings = null;

private bool allowWork = false;

private double fuelRate = 0;

private int errorCount = 0;

private Thread work = null;

/\*\*

\* структура алгоритмов расчета мгновенного расхода топлива

\*/

enum RequestType

{

byPID,

byInjectorTiming,

byMAP

}

private RequestType requestType = RequestType.byPID;

private double FuelRate

{

get

{

return fuelRate;

}

set

{

fuelRate = value;

dashboard.setFuelRate(fuelRate);

}

}

public RemoteDevice(ref SerialPort sp, ref StatusBar sb, ref Dashboard db, ref MySettings ms)

{

statusBar = sb;

dashboard = db;

mySettings = ms;

link = new MyLinkHandler(ref sp, ref sb);

}

/\*

\* проверка, то ли устройство находится на конце соединения

\*/

private bool verifyConnection()

{

if (!link.send("atz"))

return false;

string str = "";

link.getAnswer(ref str, 2000);

if (str.Contains("ELM327 v1.5"))

return true;

else

return false;

}

/\*\*

\* непосредственная работа по получению данных и их обработку

\*/

private void mainWork()

{

while (allowWork)

{

switch (requestType)

{

case RequestType.byPID: casePID(); break;

case RequestType.byInjectorTiming: caseInjectorTiming(); break;

case RequestType.byMAP: caseMAP(); break;

}

Thread.Sleep(200);

}

}

/\*

\* получение данных напрямую из соответствующего PID протокола

\*/

private void casePID()

{

statusBar.setStatus("Подключено. Запрос данных напрямую из электронного блока управления");

string fuelRateStr = link.getData("015E");

double fuelRate = 0;

try { fuelRate = Convert.ToInt32(fuelRateStr, 16) \* 0.05; }

catch { }

//запросим обороты двигателя

int rpm = 0;

string strRPM = link.getData("010C");

try { rpm = Convert.ToInt32(strRPM, 16) / 4; }

catch { }

dashboard.setRPM(rpm);

if (fuelRate == 0)

errorCount++;

else

{

FuelRate = fuelRate;

errorCount = 0;

}

if (errorCount > 5)

{

dashboard.setRPM(0);

FuelRate = 0;

errorCount = 0;

requestType = RequestType.byInjectorTiming;

return;

}

}

/\*\*

\* рассчет через время открытия форсунок и их производительность

\*/

private void caseInjectorTiming()

{

if (mySettings.InjectorPerformance == 0)

{

statusBar.setStatus("Подключено. Информация о производительности форсунок отсутствует.");

Thread.Sleep(3000);

FuelRate = 0;

errorCount = 0;

requestType = RequestType.byMAP;

return;

}

statusBar.setStatus("Подключено. Расчет через показания датчика времени открытия форсунок");

string injTimingStr = link.getData("A029");

injTimingStr = injTimingStr.Replace("E0", "");

double injTime = 0;

try { injTime = Convert.ToInt32(injTimingStr, 16) / 1000.0; }

catch { }

string strRPM = link.getData("010C");

int rpm = 0;

try { rpm = Convert.ToInt32(strRPM, 16) / 4; }

catch { }

dashboard.setRPM(rpm);

if (injTime == 0 || rpm == 0)

errorCount++;

else

{

FuelRate = (double)rpm \* injTime \* (double)mySettings.InjectorPerformance / 1000.0;

errorCount = 0;

}

if (errorCount > 5)

{

dashboard.setRPM(0);

FuelRate = 0;

errorCount = 0;

requestType = RequestType.byMAP;

}

}

/\*\*

\* расход мгновенного расхода через давление воздуха во впускном коллекторе

\*/

private void caseMAP()

{

statusBar.setStatus("Подключено. Рассчет через показания датчика Manifold Air Pressure");

/\* IAT - Intake Air Temperature in Kelvin - 283

\* R - Specific Gas Constant (8.314472 J/(mol.K)

\* MM - Average molecular mass of air (28.9644 g/mol)

\* VE - volumetric efficiency measured in percent, let's say 85%

\* ED - Engine Displacement in liters 1.396л.

\* IMAP = RPM\*MAP/IAT;

\* MAF = (IMAP/120)\*(VE/100)\*(ED)\*(MM)/(R);

\*

\* AirFuelRatio = 14.7; // For gasoline vehicles

\* FuelDensityGramsPerLiter = 720; // For gasoline vehicles

\*

\* FuelFlowGramsPerSecond = MAF / AirFuelRatio;

\* FuelFlowLitersPerSecond = FuelFlowGramsPerSecond / FuelDensityGramsPerLiter;

\*

\* LPH = FuelFlowLitersPerSecond \* 3600; // Convert to liters per hour

\*/

const double R = 8.314;

const double ED = 1.396;

const double MM = 28.9644;

const int VE = 85;

const double AirFuelRatio = 14.7;

const int FuelDensityGramsPerLiter = 720;

//запросим обороты двигателя

int rpm = 0;

string strRPM = link.getData("010C");

try { rpm = Convert.ToInt32(strRPM, 16) / 4; }

catch { }

int map = 0;

string MAP = link.getData("010B");

try { map = Convert.ToInt32(MAP, 16); }

catch { }

int iat = 0;

string IAT = link.getData("010F");

try { iat = Convert.ToInt32(IAT, 16) + 273; }

catch { }

dashboard.setRPM(rpm);

if (rpm == 0 || map == 0 || iat == 0)

{

errorCount++;

}

else

{

double IMAP = (double)rpm \* (double)map / (double)iat;

double MAF = (IMAP / 120.0) \* ((double)VE / 100.0) \* ED \* MM / R;

double FuelFlowGramsPerSecond = MAF / AirFuelRatio;

double FuelFlowLitersPerSecond = FuelFlowGramsPerSecond / FuelDensityGramsPerLiter;

FuelRate = FuelFlowLitersPerSecond \* 3600;

errorCount = 0;

}

if (errorCount > 5)

{

dashboard.setRPM(0);

FuelRate = 0;

errorCount = 0;

requestType = RequestType.byPID;

}

}

/\*\*

\* установка соединения

\*/

public bool connect(string portName)

{

if (link.open(portName))

{

if (verifyConnection())

return true;

else

statusBar.setStatus("Ошибка, устройство не прошло проверку. Неизвестное устройство");

}

return false;

}

/\*\*

\* настройка сканера на нужную нам работу

\*/

public bool init()

{

bool res = true;

string answer = "";

link.send("ATSP3");

link.getAnswer(ref answer, 5000);

if (!answer.Contains("OK"))

res = false;

link.send("ATE0");

link.getAnswer(ref answer, 5000);

if (!answer.Contains("OK"))

res = false;

if (!res)

statusBar.setStatus("Ошибка. Невозможно инициализировать сканер.");

return res;

}

/\*\*

\* запуск основной работы

\*/

public void startWork()

{

if (work != null)

work.Abort();

work = new Thread(mainWork);

allowWork = true;

work.Start();

}

/\*\*

\* остановка опроса

\*/

public void stopWork()

{

allowWork = false;

FuelRate = 0;

dashboard.setRPM(0);

}

public void disconnect()

{

if (link.isActive())

link.close();

else

statusBar.setStatus("Отключено");

}

}

}

**Приложениe E. Листинг 6. Класс MainForm**

using System;

using System.Collections.Generic;

using System.Drawing;

using System.IO.Ports;

using System.Linq;

using System.Threading;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Windows.Forms.DataVisualization.Charting;

namespace FuelEconomy

{

public partial class MainForm : Form

{

private MySettings mySettings;

private StatusBar statusBar;

private RemoteDevice remoteScaner;

private Dashboard dashboard;

Task taskConnecting = null;

public MainForm()

{

InitializeComponent();

mySettings = new MySettings(ref connectButton, ref cbPorts, ref inputInjectorPerformance);

statusBar = new StatusBar(ref statusImageLabel, ref statusTextLabel);

dashboard = new Dashboard(ref chartDashboard, ref digitDashboard, ref rpmDashboard);

remoteScaner = new RemoteDevice(ref adapterPort, ref statusBar, ref dashboard, ref mySettings);

tabControl.DrawItem += new DrawItemEventHandler(tabControl\_DrawItem);

MainForm.CheckForIllegalCrossThreadCalls = true;

}

/\*\*

\* Настройка отрисовки стиля вкладок

\*/

private void tabControl\_DrawItem(Object sender, System.Windows.Forms.DrawItemEventArgs e)

{

Graphics g = e.Graphics;

Brush \_textBrush;

// Получим объект из коллекции

TabPage \_tabPage = tabControl.TabPages[e.Index];

// Получим параметры ограничивающей рамки.

Rectangle \_tabBounds = tabControl.GetTabRect(e.Index);

//используем другой шрифт

Font \_tabFont;

if (e.State == DrawItemState.Selected)

{

//Изменим шрифт и закрасим фон

\_tabFont = new Font("Comic Sans MS", 18.0f, FontStyle.Bold, GraphicsUnit.Pixel);

g.FillRectangle(Brushes.AliceBlue, e.Bounds);

\_textBrush = new System.Drawing.SolidBrush(Color.Blue);

}

else

{

\_tabFont = new Font("Comic Sans MS", 18.0f, FontStyle.Regular, GraphicsUnit.Pixel);

\_textBrush = new System.Drawing.SolidBrush(e.ForeColor);

e.DrawBackground();

}

// Напечатаем название вкладки по центру

StringFormat \_stringFlags = new StringFormat();

\_stringFlags.Alignment = StringAlignment.Center;

\_stringFlags.LineAlignment = StringAlignment.Center;

g.DrawString(\_tabPage.Text, \_tabFont, \_textBrush, \_tabBounds, new StringFormat(\_stringFlags));

}

private void MainForm\_Load(object sender, EventArgs e)

{

mySettings.loadSettings();

}

private void inputInjectorPerformance\_TextChanged(object sender, EventArgs e)

{

UInt32 value;

if (UInt32.TryParse(inputInjectorPerformance.Text, out value))

mySettings.InjectorPerformance = value;

else

inputInjectorPerformance.Text = "0";

}

private void inputInjectorPerformance\_KeyPress(object sender, KeyPressEventArgs e)

{

char number = e.KeyChar;

if (!Char.IsDigit(number))

{

e.Handled = true;

}

}

private void buttonDefaultSettings\_Click(object sender, EventArgs e)

{

mySettings.setSettingsToDefault();

}

private void cbPorts\_SelectedIndexChanged(object sender, EventArgs e)

{

if (cbPorts.SelectedItem != null)

mySettings.SelectedPort = cbPorts.SelectedItem.ToString();

else

cbPorts.Text = "Не выбрано";

}

private void cbPorts\_Click(object sender, EventArgs e)

{

List<string> COMlist = getCOMports();

cbPorts.Items.Clear();

cbPorts.Text = "Выберите порт";

cbPorts.Items.AddRange(COMlist.ToArray());

}

private void connectButton\_Click(object sender, EventArgs e)

{

taskConnecting = Task.Run(connectRemoteDev);

}

private void connectRemoteDev()

{

statusBar.setStatus("Подключение.");

if(!remoteScaner.connect(mySettings.SelectedPort))

return;

if (!remoteScaner.init())

return;

dashboard.startChartWork();

remoteScaner.startWork();

}

private void disconnectRemoteDev()

{

statusBar.setStatus("Отключение");

if (taskConnecting != null)

taskConnecting.Wait();

dashboard.stopChartWork();

remoteScaner.stopWork();

remoteScaner.disconnect();

}

async private void disconnectButton\_Click(object sender, EventArgs e)

{

await Task.Run(disconnectRemoteDev);

}

static public List<string> getCOMports()

{

string[] ports = SerialPort.GetPortNames();

List<string> uniqPorts = new List<string>();

foreach (var m in ports.Distinct<string>())

{

uniqPorts.Add(m);

}

return uniqPorts;

}

async private void MainForm\_FormClosing(object sender, FormClosingEventArgs e)

{

await Task.Run(disconnectRemoteDev);

}

}

}