Пермский филиал федерального государственного автономного образовательного учреждения высшего образования

«Национальный исследовательский университет   
«Высшая школа экономики»

**Факультет профессиональной переподготовки**

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

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Проектная работа по направлению подготовки

«Объектно-ориентированное программирование»

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Пермь, 2020

Аннотация

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Тема работы – «Разработка информационной системы контроля мгновенного расхода топлива автомобиля».

Год издания – 2020.

Издательство – Факультет профессиональной переподготовки НИУ ВШЭ – Пермь.

Количество глав – 3.

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 \_\_ страниц основного текста, состоит из 3 глав и \_\_ приложений.

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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 подключается в диагностический разъем автомобиля и способен получить данные с ЭБУ автомобиля, в том числе информацию с различных датчиков двигателя по стандарту OBD-II.

Стандарт OBD-II был разработан в середине 90х годов и позволяет проводить мониторинг систем управления двигателя.

## 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 случае если автомобиль стоит на месте в л/час.
4. Информационная система должна отображать на основном экране информацию о мгновенном расходе топлива в литрах в час (l/h).
5. Частота обновления данных должна составлять минимум 1 раз в секунду.
6. 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.
7. 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.
8. Информационная система должна содержать меню настроек, в котором выбирается устройство, к которому подключается информационная система.
9. 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, 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. 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.

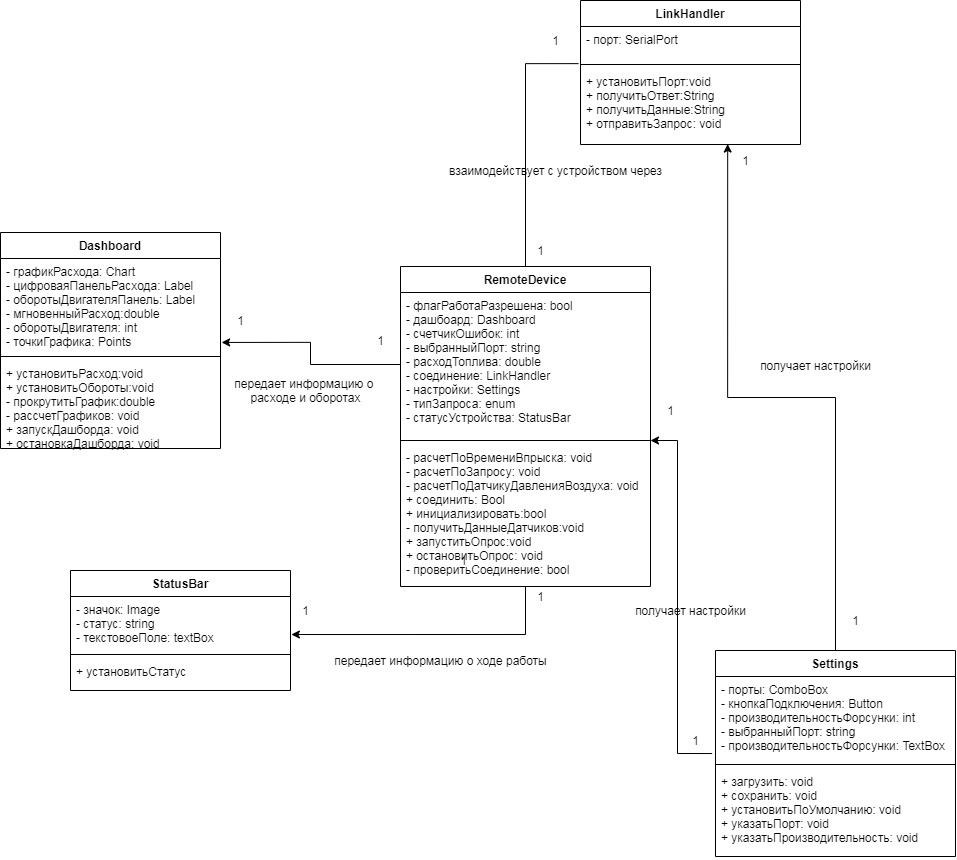
Изображение выглядит как снимок экрана

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.

*Табл.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.

*Табл.2.2. Класс LinkHandler*

| Атрибут | Тип атрибута | Назначение |
| --- | --- | --- |
| порт | SerialPort | Объект COM порта, с которым происходит обмен данными |

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.

*Табл.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.

*Табл.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.

*Табл.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 |
| выбранныйПорт | string | Имя порта для подключения и работы |
| 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 |

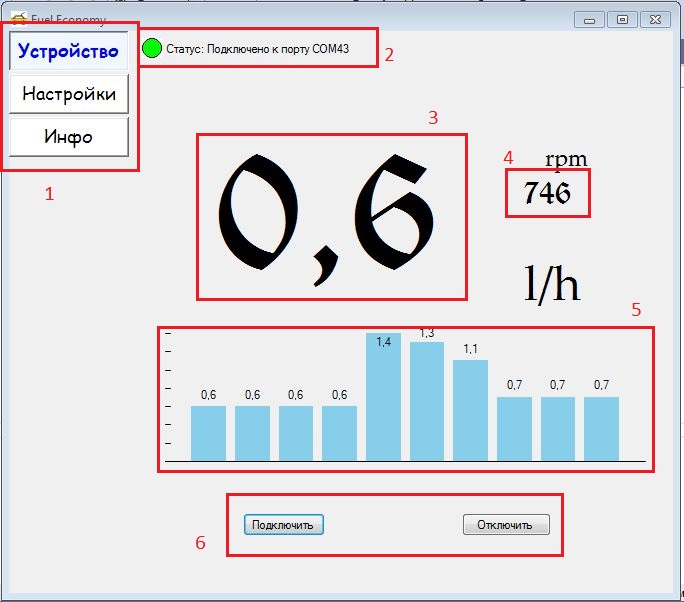
Глава 3. Реализация информационной системы контроля мгновенного расхода топлива

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 в контрастных тонах, и минималистичном дизайне.

### 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 настройка 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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dBr1jw7/yB4P8/wDLSvJ/Bv8AyXX44f8AY62v/qM6DXrHh3/kDwf5/wCWlVU/3WBNP/eZl6iiiuE7gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5XxF/yGJ/8/wDLOo/2Ff8AkhOof9jv4v8A/Um1SpPEX/IYn/z/AMs6j/YV/wCSE6h/2O/i/wD9SbVK7MV/CiceF/iSOH8G/wDJdfjh/wBjra/+ozoNeseHf+QPB/n/AJaV5P4N/wCS6/HD/sdbX/1GdBr1jw7/AMgeD/P/AC0qqn+6wJp/7zMvUUUVwncFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHK+Iv+QxP/n/AJZ1H+wr/wAkJ1D/ALHfxf8A+pNqlSeIv+QxP/n/AJZ1H+wr/wAkJ1D/ALHfxf8A+pNqldmK/hROPC/xJHD+Df8Akuvxw/7HW1/9RnQa9Y8O/wDIHg/z/wAtK8n8G/8AJdfjh/2Otr/6jOg16x4d/wCQPB/n/lpVVP8AdYE0/wDeZl6iiiuE7gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5XxF/yGJ/8/8ALOo/2Ff+SE6h/wBjv4v/APUm1SpPEX/IYn/z/wAs6j/YV/5ITqH/AGO/i/8A9SbVK7MV/CiceF/iSOH8G/8AJdfjh/2Otr/6jOg16x4d/wCQPB/n/lpXk/g3/kuvxw/7HW1/9RnQa9Y8O/8AIHg/z/y0qqn+6wJp/wC8zL1FFFcJ3BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQByviL/AJDE/wDn/lnUf7Cv/JCdQ/7Hfxf/AOpNqlSeIv8AkMT/AOf+WdR/sK/8kJ1D/sd/F/8A6k2qV2Yr+FE48L/EkcP4N/5Lr8cP+x1tf/UZ0GvWPDv/ACB4P8/8tK8n8G/8l1+OH/Y62v8A6jOg16x4d/5A8H+f+WlVU/3WBNP/AHmZeooorhO4KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOV8Rf8AIYn/AM/8s6j/AGFf+SE6h/2O/i//ANSbVKk8Rf8AIYn/AM/8s6j/AGFf+SE6h/2O/i//ANSbVK7MV/CiceF/iSOH8G/8l1+OH/Y62v8A6jOg16x4d/5A8H+f+WleT+Df+S6/HD/sdbX/ANRnQa9Y8O/8geD/AD/y0qqn+6wJp/7zMvUUUVwncFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHK+Iv+QxP/AJ/5Z1H+wr/yQnUP+x38X/8AqTapUniL/kMT/wCf+WdR/sK/8kJ1D/sd/F//AKk2qV2Yr+FE48L/ABJHD+Df+S6/HD/sdbX/ANRnQa9Y8O/8geD/AD/y0ryfwb/yXX44f9jra/8AqM6DXrHh3/kDwf5/5aVVT/dYE0/95mXqKKK4TuCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDlfEX/IYn/wA/8s6j/YV/5ITqH/Y7+L//AFJtUqTxF/yGJ/8AP/LOo/2Ff+SE6h/2O/i//wBSbVK7MV/CiceF/iSOH8G/8l1+OH/Y62v/AKjOg16x4d/5A8H+f+WleT+Df+S6/HD/ALHW1/8AUZ0GvWPDv/IHg/z/AMtKqp/usCaf+8zL1FFFcJ3BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQByviL/kMT/5/5Z1H+wr/AMkJ1D/sd/F//qTapUniL/kMT/5/5Z1H+wr/AMkJ1D/sd/F//qTapXZiv4UTjwv8SRw/g3/kuvxw/wCx1tf/AFGdBr1jw7/yB4P8/wDLSvJ/Bv8AyXX44f8AY62v/qM6DXrHh3/kDwf5/wCWlVU/3WBNP/eZl6iiiuE7gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5XxF/yGJ/8/wDLOo/2Ff8AkhOof9jv4v8A/Um1SpPEX/IYn/z/AMs6j/YV/wCSE6h/2O/i/wD9SbVK7MV/CiceF/iSOH8G/wDJdfjh/wBjra/+ozoNeseHf+QPB/n/AJaV5P4N/wCS6/HD/sdbX/1GdBr1jw7/AMgeD/P/AC0qqn+6wJp/7zMvUUUVwncFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHK+Iv+QxP/n/AJZ1H+wr/wAkJ1D/ALHfxf8A+pNqlSeIv+QxP/n/AJZ1H+wr/wAkJ1D/ALHfxf8A+pNqldmK/hROPC/xJHD+Df8Akuvxw/7HW1/9RnQa9Y8O/wDIHg/z/wAtK8n8Gf8AJdfjh/2Otr/6jOg16x4d/wCQPB/n/lpVVP8AdYE0/wDeZl6iiiuE7gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5XxF/yGJ/8/8ALOo/2Ff+SE6h/wBjv4v/APUm1SpPEX/IYn/z/wAs6j/YV/5ITqH/AGO/i/8A9SbVK7MV/CiceF/iSOH8F/8AJdPjh/2O1r/6jOg13FrrNza2+yJvLj/3Km8Q/sdeB/HHjnXPEFz/AMJlY6pr1ylzftpHjTWdKhuJo4ktUkMNrdRxbhDbwpnb0QVD/wAMLeBf+gh8Uf8Aw5viT/5Pp0cVTdPklEqeFqe05+Yk/wCEkvP+e3/jkdH/AAkl5/z2/wDHI6j/AOGFvAv/AEEPij/4c3xJ/wDJ9H/DC3gX/oIfFH/w5viT/wCT6PrVP+Un6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5Po+tU/5Q+q1P5iT/hJLz/nt/wCOR0f8JJef89v/AByOo/8AhhbwL/0EPij/AOHN8Sf/ACfR/wAMLeBf+gh8Uf8Aw5viT/5Po+tU/wCUPqtT+Yk/4SS8/wCe3/jkdH/CSXn/AD2/8cjqP/hhbwL/ANBD4o/+HN8Sf/J9H/DC3gX/AKCHxR/8Ob4k/wDk+j61T/lD6rU/mJP+EkvP+e3/AI5HR/wkl5/z2/8AHI6j/wCGFvAv/QQ+KP8A4c3xJ/8AJ9H/AAwt4F/6CHxR/wDDm+JP/k+j61T/AJQ+q1P5iT/hJLz/AJ7f+OR0f8JJef8APb/xyOo/+GFvAv8A0EPij/4c3xJ/8n0f8MLeBf8AoIfFH/w5viT/AOT6PrVP+UPqtT+Yk/4SS8/57f8AjkdH/CSXn/Pb/wAcjqP/AIYW8C/9BD4o/wDhzfEn/wAn0f8ADC3gX/oIfFH/AMOb4k/+T6PrVP8AlD6rU/mJP+EkvP8Ant/45HR/wkl5/wA9v/HI6j/4YW8C/wDQQ+KP/hzfEn/yfR/wwt4F/wCgh8Uf/Dm+JP8A5PpfWqf8ovqtT+Yhurp7q43y/vJKm/YVH/FidQ/7Hfxf/wCpNqlA/YW8Cn/mIfFH/wAOb4k/+T6634W/DLRfg34Pj8O+H7Wa30u0nnuVW6u5r+d5bmVrqeR5rh5JXZ5ppHJZjyxpYitzmtChyo//2Q==)

*Рис.3.2. Экран настроек информационной системы*

### 3.3. Тестирование информационной системы

| № теста | Начальное состояние | Внешние действия | Ожидаемый результат |
| --- | --- | --- | --- |
| 1 | Обогреватель выключен | Показания датчика температуры между нормальным уровнем и нижним | Отсутствие сработки обогрева |
| 2 | Обогреватель выключен | Показания датчика температуры меньше нижнего уровня | Включение обогревателя |
| 3 | Обогреватель включен | Показания датчика температуры между нормальным уровнем и нижним | Сохранение включенного обогрева |
| 4 | Обогреватель включен | Показания датчика температуры выше нормального уровня | Выключение обогревателя |
| 5 | Кондиционер выключен | Показания датчика температуры между нормальным уровнем и верхним | Отсутствие сработки кондиционера |
| 6 | Кондиционер выключен | Показания датчика температуры больше верхнего уровня | Включение кондиционера |
| 7 | Кондиционер включен | Показания датчика температуры между нормальным уровнем и верхним | Сохранение включенного кондиционера |
| 8 | Кондиционер включен | Показания датчика температуры ниже нормального уровня | Выключение кондиционера |
| 9 | Вентиляция выключена | Показания датчика загазованности между нормальным уровнем и верхним | Отсутствие сработки вентиляции |
| 10 | Вентиляция выключена | Показания датчика загазованности больше верхнего уровня | Включение вентиляции |
| 11 | Вентиляция включена | Показания датчика загазованности между нормальным уровнем и верхним | Сохранение включенной вентиляции |
| 12 | Вентиляция включена | Показания датчика загазованности ниже нормального уровня | Выключение вентиляции |

**Приложениe А. Листинг 1. Класс HomeController**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Mvc;

using FinalProject.Models;

using Microsoft.AspNet.Identity.Owin;

using Microsoft.AspNet.Identity;

using FinalProject.Models;

namespace FinalProject.Controllers

{

public class HomeController : Controller

{

ClimateContext db = new ClimateContext();

public ActionResult Index()

{

var departments = db.Departments;

ViewBag.Departments = departments;

return View();

}

[HttpGet]

public ActionResult Edit(int id)

{

ViewBag.DepartmentId = id;

return View();

}

[HttpPost]

public string Edit(EditDep editDep)

{

db.Edits.Add(editDep);

db.SaveChanges();

return "Ваши изменения сохранены";

}

public ActionResult GetUsers()

{

List<ApplicationUser> users = new List<ApplicationUser>();

using (ApplicationDbContext db = new ApplicationDbContext())

{

users = db.Users.ToList();

}

return View(users);

}

[Authorize]

public ActionResult GetMyRoles()

{

IList<string> roles = new List<string> { "Роль не определена" };

ApplicationUserManager userManager = HttpContext.GetOwinContext()

.GetUserManager<ApplicationUserManager>();

ApplicationUser user = userManager.FindByEmail(User.Identity.Name);

if (user != null)

roles = userManager.GetRoles(user.Id);

return View(roles);

}

public ActionResult About()

{

ViewBag.Message = "Your application description page.";

return View();

}

public ActionResult Contact()

{

ViewBag.Message = "Your contact page.";

return View();

}

}

}**Приложениe Б. Листинг 2. Модель IdentityModels**

using System.Data.Entity;

using System.Security.Claims;

using System.Threading.Tasks;

using Microsoft.AspNet.Identity;

using Microsoft.AspNet.Identity.EntityFramework;

namespace FinalProject.Models

{

// You can add profile data for the user by adding more properties to your ApplicationUser class, please visit https://go.microsoft.com/fwlink/?LinkID=317594 to learn more.

public class ApplicationUser : IdentityUser

{

public string Department { get; set; }

public async Task<ClaimsIdentity> GenerateUserIdentityAsync(UserManager<ApplicationUser> manager)

{

// Обратите внимание, что authenticationType должен совпадать с типом, определенным в CookieAuthenticationOptions.AuthenticationType

var userIdentity = await manager.CreateIdentityAsync(this, DefaultAuthenticationTypes.ApplicationCookie);

// Здесь добавьте утверждения пользователя

return userIdentity;

}

}

public class ApplicationDbContext : IdentityDbContext<ApplicationUser>

{

public ApplicationDbContext()

: base("DefaultConnection", throwIfV1Schema: false)

{

}

public DbSet<Department> Departments { get; set; }

public static ApplicationDbContext Create()

{

return new ApplicationDbContext();

}

}

public class AppDbInitializer : DropCreateDatabaseAlways<ApplicationDbContext>

{

protected override void Seed(ApplicationDbContext context)

{

var UserManager = new ApplicationUserManager(new UserStore<ApplicationUser>(context));

var RoleManager = new RoleManager<IdentityRole>(new RoleStore<IdentityRole>(context));

var role1 = new IdentityRole { Name = "admin" };

var role2 = new IdentityRole { Name = "user" };

RoleManager.Create(role1);

RoleManager.Create(role2);

var admin = new ApplicationUser { Email = "admin@admin.ru", UserName = "admin@admin.ru", Department = "Техподдержка"};

string password = "Qwe123!";

var result = UserManager.Create(admin, password);

if (result.Succeeded)

{

UserManager.AddToRole(admin.Id, role1.Name);

UserManager.AddToRole(admin.Id, role2.Name);

}

var usertest = new ApplicationUser { Email = "user@user.ru", UserName = "user@user.ru", Department = "Продажи" };

string password1 = "Qwe123!";

var result1 = UserManager.Create(usertest, password1);

if (result1.Succeeded)

{

UserManager.AddToRole(usertest.Id, role2.Name);

}

base.Seed(context);

}

}

}

**Приложениe В. Листинг 3. Класс ClimateContext**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Mvc;

using FinalProject.Models;

using Microsoft.AspNet.Identity.Owin;

using Microsoft.AspNet.Identity;

using FinalProject.Models;

namespace FinalProject.Controllers

{

public class HomeController : Controller

{

ClimateContext db = new ClimateContext();

public ActionResult Index()

{

var departments = db.Departments;

ViewBag.Departments = departments;

return View();

}

[HttpGet]

public ActionResult Edit(int id)

{

ViewBag.DepartmentId = id;

return View();

}

[HttpPost]

public string Edit(EditDep editDep)

{

db.Edits.Add(editDep);

db.SaveChanges();

return "Ваши изменения сохранены";

}

public ActionResult GetUsers()

{

List<ApplicationUser> users = new List<ApplicationUser>();

using (ApplicationDbContext db = new ApplicationDbContext())

{

users = db.Users.ToList();

}

return View(users);

}

[Authorize]

public ActionResult GetMyRoles()

{

IList<string> roles = new List<string> { "Роль не определена" };

ApplicationUserManager userManager = HttpContext.GetOwinContext()

.GetUserManager<ApplicationUserManager>();

ApplicationUser user = userManager.FindByEmail(User.Identity.Name);

if (user != null)

roles = userManager.GetRoles(user.Id);

return View(roles);

}

public ActionResult About()

{

ViewBag.Message = "Your application description page.";

return View();

}

public ActionResult Contact()

{

ViewBag.Message = "Your contact page.";

return View();

}

}

}

**Приложениe Г. Листинг 4. Приложение обработки данных**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Timers;

namespace ConsoleApp1

{

class Program

{

//проверка на холод

static int TempCheckCold(int heater, int temper, int norm, int low)

{

if (temper < low)

{

heater = 1;

Console.WriteLine("Обогреватель включен");

}

else if (temper > norm)

{

heater = 0;

Console.WriteLine("Обогреватель выключен");

}

return heater;

}

//проверка на жару

static int TempCheckHot(int conditioner, int temper, int high, int norm)

{

if (temper > high)

{

conditioner = 1;

Console.WriteLine("Кондиционер включен");

}

else if (temper < norm)

{

conditioner = 0;

Console.WriteLine("Кондиционер выключен");

}

return conditioner;

}

//проверка на уровень углекислого газа

static int OxygenCheck(int ventilation, int CO2, int high, int norm)

{

if (CO2 > high)

{

ventilation = 1;

Console.WriteLine("Вентиляция включена");

}

else if (CO2 < norm)

{

ventilation = 0;

Console.WriteLine("Вентиляция выключена");

}

return ventilation;

}

static void Main(string[] args)

{

//параметры для тестов

bool trigger = true;

int TempSensorValue = 22;

int CO2SensorValue = 1700;

int HotTemp = 25;

int NormTemp = 23;

int ColdTemp = 21;

int CO2High = 1500;

int CO2Norm = 1000;

int HeaterState = 0;

int ConditionerState = 0;

int VentilationState = 0;

do

{

//передача в приложение текущих параметров из веб - включение системы, текущие показания датчиков температуры и CO2, выставленные границы включения и выключения кондиционера, обогрева и вентиляции для нужного отдела

int temper = TempSensorValue;

int co2 = CO2SensorValue;

int hottemp = HotTemp;

int normtemp = NormTemp;

int coldtemp = ColdTemp;

int co2high = CO2High;

int co2norm = CO2Norm;

int heater = HeaterState;

int conditioner = ConditionerState;

int ventilation = VentilationState;

TempCheckCold(heater, temper, NormTemp, ColdTemp);

TempCheckHot(conditioner, temper, HotTemp, NormTemp);

OxygenCheck(ventilation, co2, CO2High, CO2Norm);

Timer timer = new Timer();

timer.Interval = 60000;

timer.Start();

}

while (trigger == true);

}

}

}

**Приложениe Д. Листинг 5. Класс Department**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

namespace FinalProject.Models

{

public class Department

{

public int Id { get; set; }

public string Name { get; set; }

public int HotTemp { get; set; }

public int NormTemp { get; set; }

public int ColdTemp { get; set; }

public int CO2High { get; set; }

public int CO2Norm { get; set; }

}

}

**Приложениe E. Листинг 6. Представление Index**

@{

ViewBag.Title = "Страница настройки по отделам";

}

<div>

<h3>Список отделов</h3>

<table>

<tr>

<td><p>Id</p></td>

<td><p>Название отдела</p></td>

<td><p>Верхняя граница температуры</p></td>

<td><p>Нормальное значение температуры</p></td>

<td><p>Нижняя граница температуры</p></td>

<td><p>Верхняя граница уровня CO2</p></td>

<td><p>Нормальное значение уровня CO2</p></td>

<td></td>

</tr>

@foreach(var d in ViewBag.Departments)

{

<tr>

<td><p>@d.Id</p></td>

<td><p>@d.Name</p></td>

<td><p>@d.HotTemp</p></td>

<td><p>@d.NormTemp</p></td>

<td><p>@d.ColdTemp</p></td>

<td><p>@d.CO2High</p></td>

<td><p>@d.CO2Norm</p></td>

<td><p><a href="/Home/Edit@d.Id">Изменить</a></p></td>

</tr>

}

</table>

</div>

**Приложениe Ж. Листинг 7. Представление Edit**

@{

ViewBag.Title = "Редактирование настроек отдела";

}

<div>

<h3>Редактирование настроек отдела</h3>

<form method="post">

<input type="hidden" value="@ViewBag.DepartmentId" name="DepartmentId" />

<table>

<tr>

<td><p>Введите значение верхней границы температуры</p></td>

<td><input type="number" name="HotTemp" /></td>

</tr>

<tr>

<td><p>Введите значение нормальной границы температуры</p></td>

<td><input type="number" name="NormTemp" /></td>

</tr>

<tr>

<td><p>Введите значение нижней границы температуры</p></td>

<td><input type="number" name="ColdTemp" /></td>

</tr>

<tr>

<td><p>Введите значение верхней границы загазованности</p></td>

<td><input type="number" name="CO2High" /></td>

</tr>

<tr>

<td><p>Введите значение нормальной границы загазованности</p></td>

<td><input type="number" name="CO2Norm" /></td>

</tr>

<tr><td><input type="submit" value="Принять изменения" /></td><td></td></tr>

</table>

</form>

</div>