

Министерство науки и высшего образования Российской Федерации

Федеральное государственное автономное образовательное учреждение высшего образования
Национальный исследовательский Нижегородский государственный университет им. Н.И.
Лобачевского

Институт информационных технологий, математики и механики

Отчет по практическому заданию №4
«Инструменты разработки мобильных приложений»

Выполнил:

студент группы 381906-1

Зайцев М. А.

Нижний Новгород
2022

Оглавление

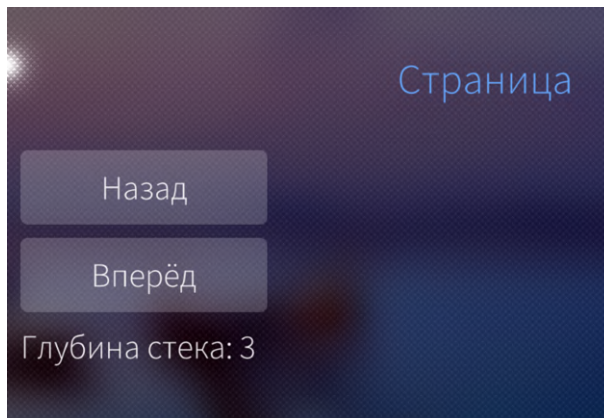
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Цель задачи

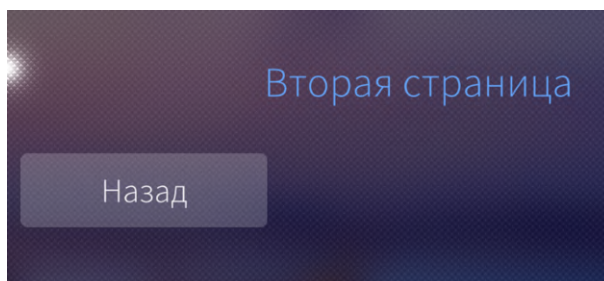
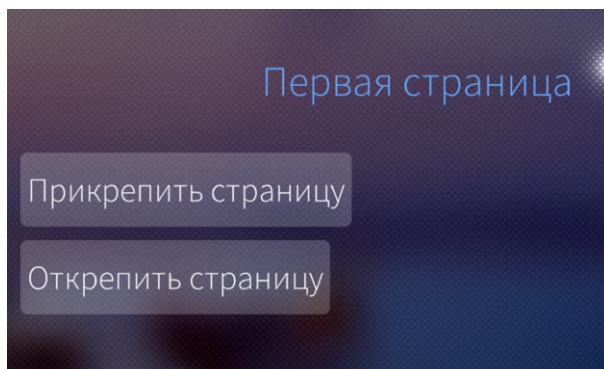
В данном лабораторной работе требуется научиться организовывать многостраничное приложение, использовать контейнеры Silica, вытягиваемые меню и обложку приложения.

Постановка задачи

1. Создать приложение, которое будет отображать страницу с двумя кнопками “Назад” и “Вперёд”. Первая удалит текущую страницу со стека, вторая добавит новую. Также на экране нужно отображать текущую глубину стека.

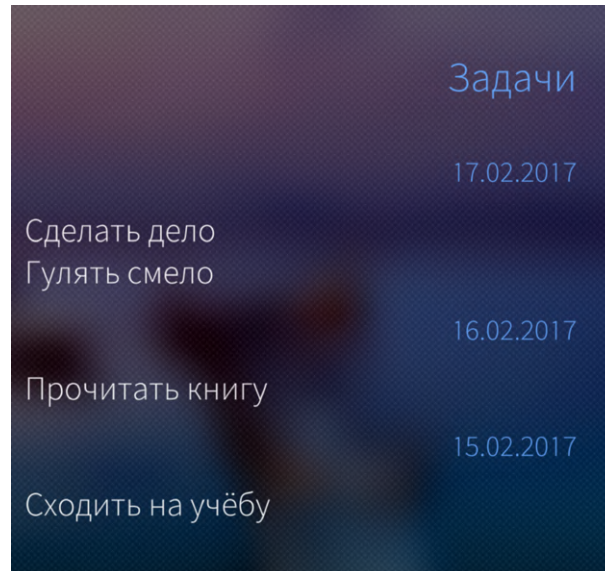


2. Создать приложение из двух страниц. Первая страница содержит две кнопки “Добавить страницу” и “Убрать страницу”. Первая кнопка добавит вторую страницу как прикреплённую, вторая кнопка её удалит. На второй странице должна быть кнопка для возврата на первую страницу без закрытия второй.



3. Создать приложение с одной кнопкой и текстовым полем. После нажатия на кнопку отображается диалог для ввода текста. После согласия с результатом введённый текст отображается в текстовое поле.
4. Создать приложение с одной кнопкой и текстовым полем. После нажатия на кнопку отображается диалог для выбора даты. После согласия с результатом ввода выбранная дата отображается в текстовое поле.

5. Создать приложение с одной кнопкой и текстовым полем. После нажатия на кнопку отображается диалог для выбора времени. После согласия с результатом ввода выбранное время отображается в текстовом поле.
6. Создать приложение со списком **SilicaListView**, из задач на неделю. Задачи должны содержать дату и описание. В списке задачи группировать по датам.



7. Создать приложение с **SilicaWebView** для доступа к вашему любимому сайту.
8. Использовать **SlideshowView** для просмотра и перелистывания задач на неделю. На одном слайде – одна задача.
9. Создать приложение с вытягиваемыми меню сверху и снизу и текстовым полем. После выбора какого-либо элемента меню, его название отобразить в текстовом поле.
10. Создать приложение со списком и контекстным меню. После выбора элемента контекстного меню отобразить в консоли название выбранного элемента меню и индекс элемента списка.
11. Создать приложение с обложкой-счётчиком. На обложке отобразить текущий счёт и две кнопки для добавления единицы к счёту и для сброса счётчика.

Описание программной реализации

Добавление страниц и отображение глубины стека

Глубина стека отображается в **Label** используя *pageStack.depth* для получения значения. *pageStack.push(Qt.resolvedUrl("Page2.qml"))* создает новую страницу, *pageStack.pop()* удаляет страницу из стека.

Прикрепленные страницы

pageStack.pushAttached(Qt.resolvedUrl("Page2.qml")) прикрепляет страницу,
pageStack.popAttached() – открепляет.

Диалог для ввода текста

Чтобы изменять ввод в **TextField**, в **Dialog** используем *onAccepted: field.text = firstTextFieldValue*.

Диалог с календарем

Чтобы изменять ввод в **TextField**, в **Dialog** используем

DatePickerDialog с *onAccepted: field.text = date.toString()*.

Диалог с часами

TimePickerDialog с *onAccepted: field.text = time.toString()*.

Список задач

Используем **SilicaListView** с **ListModel**.

Браузер

Используем **SilicaWebView** со свойством *url*.

Слайд-шоу

Используем **SlideshowView** с **ListModel**.

Вытягиваемые меню

Используем **SilicaListView** с **PullDownMenu**.

Список с контекстным меню

Используем **SilicaListView** с **ContextMenu**.

Обложка приложения

Используем **CoverActionList** с **CoverAction**.

Руководство пользователя

В первом задании пользователю отображается глубина стека.

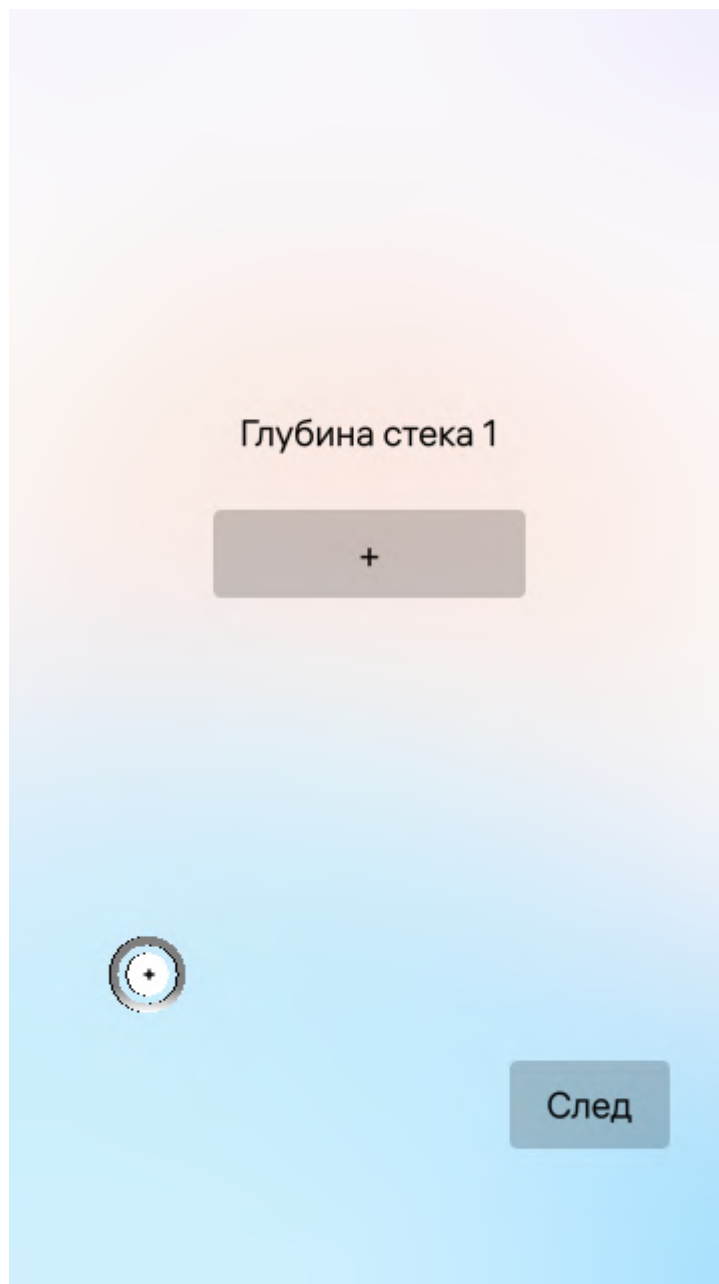


Рис. 1: Глубина стека на первой странице

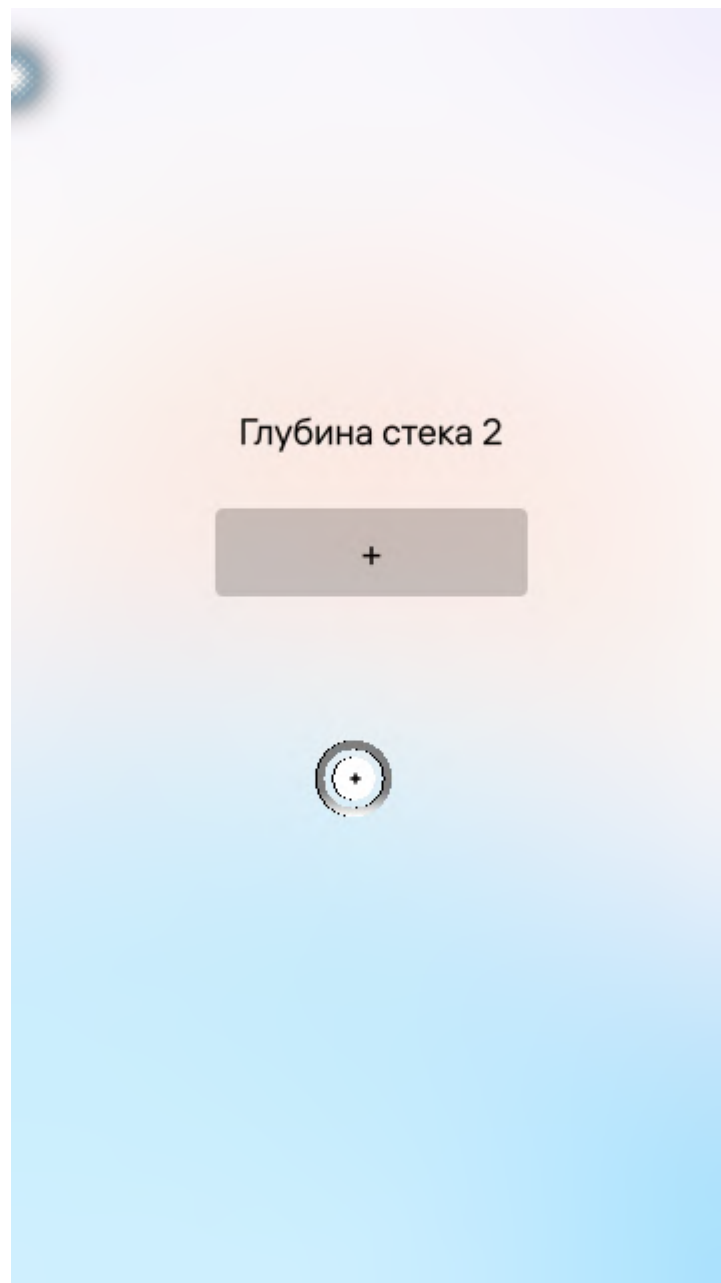


Рис. 2: Глубина стека на второй странице

Во втором задании при нажатии на кнопку прикрепить появляется индикатор перехода на следующую страницу.

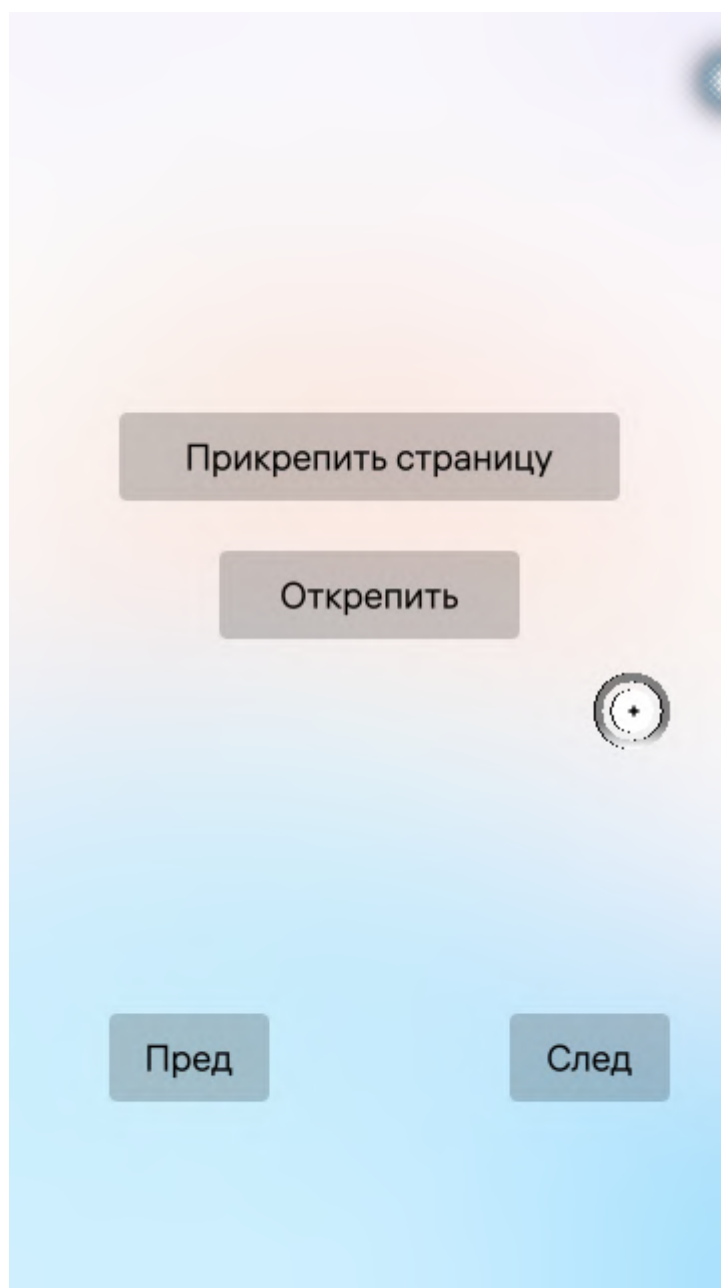


Рис. 3: Прикрепление страницы

В третьем задании ввод в текстовом поле управляется диалогом.

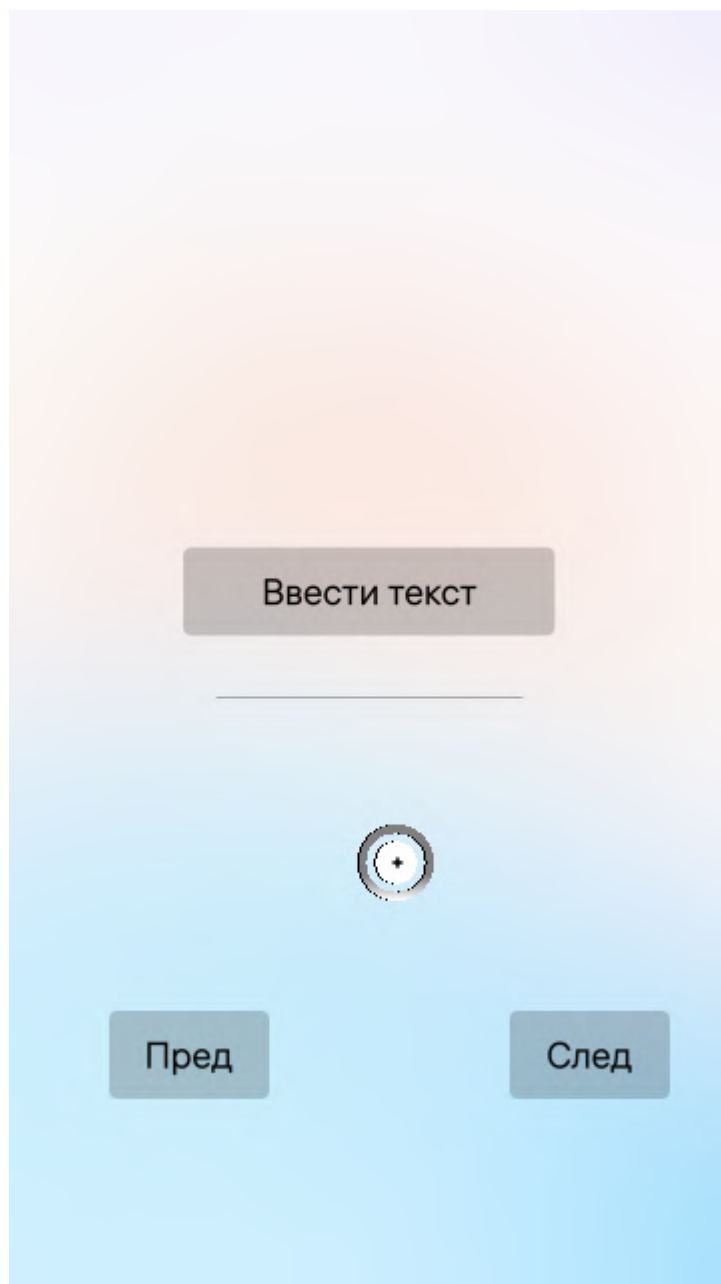


Рис. 4: Текстовое поле

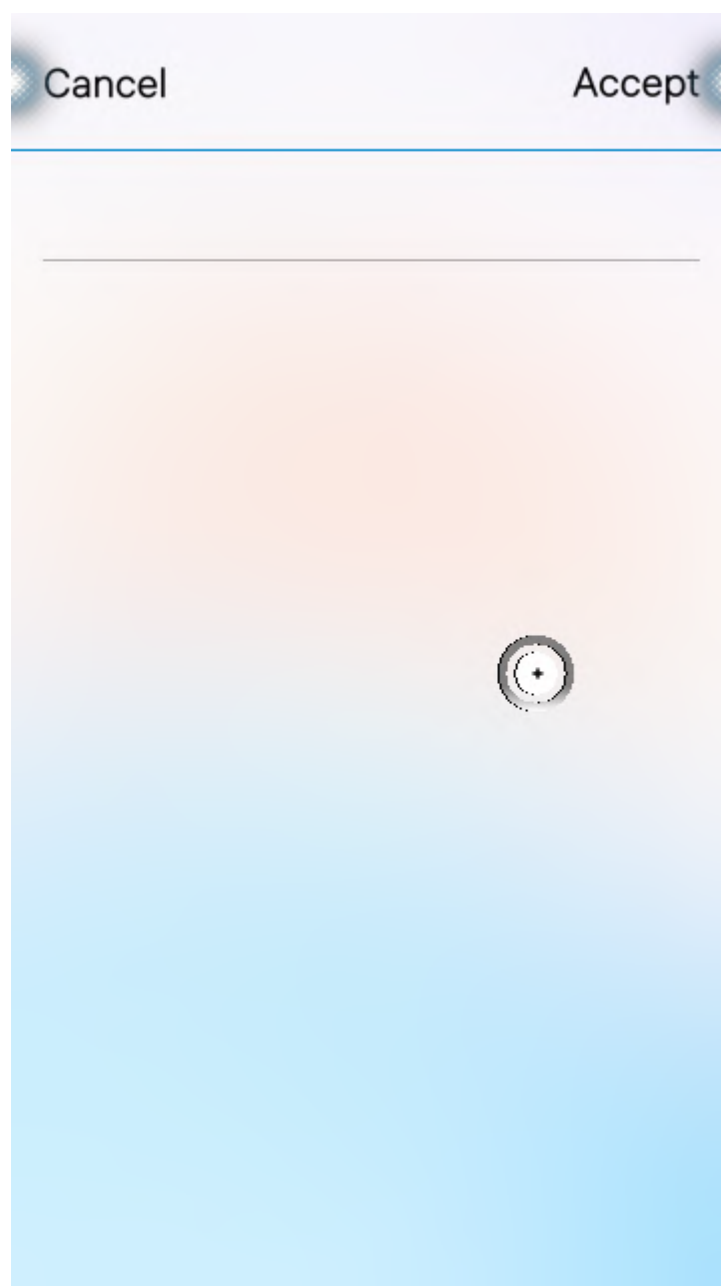


Рис. 5: Диалог ввода текста

В четвертом задании ввод в текстовом поле управляется диалогом выбора даты.

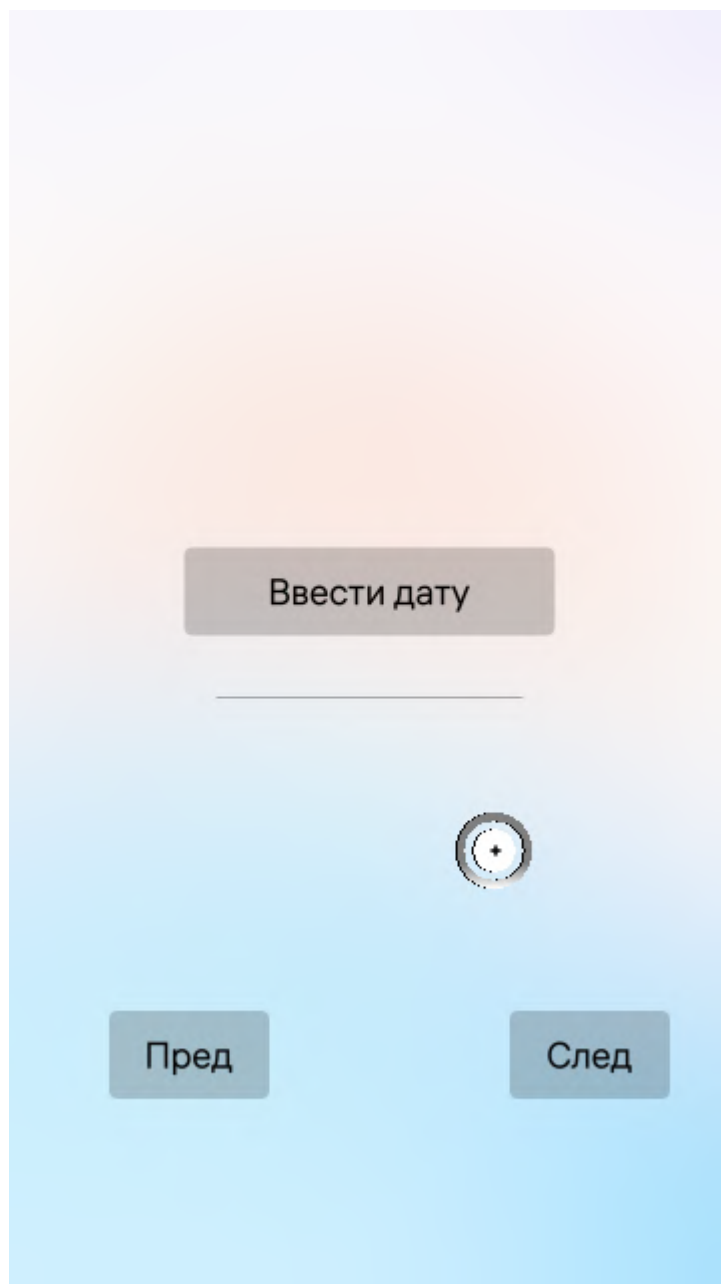


Рис. 6: Текстовое поле

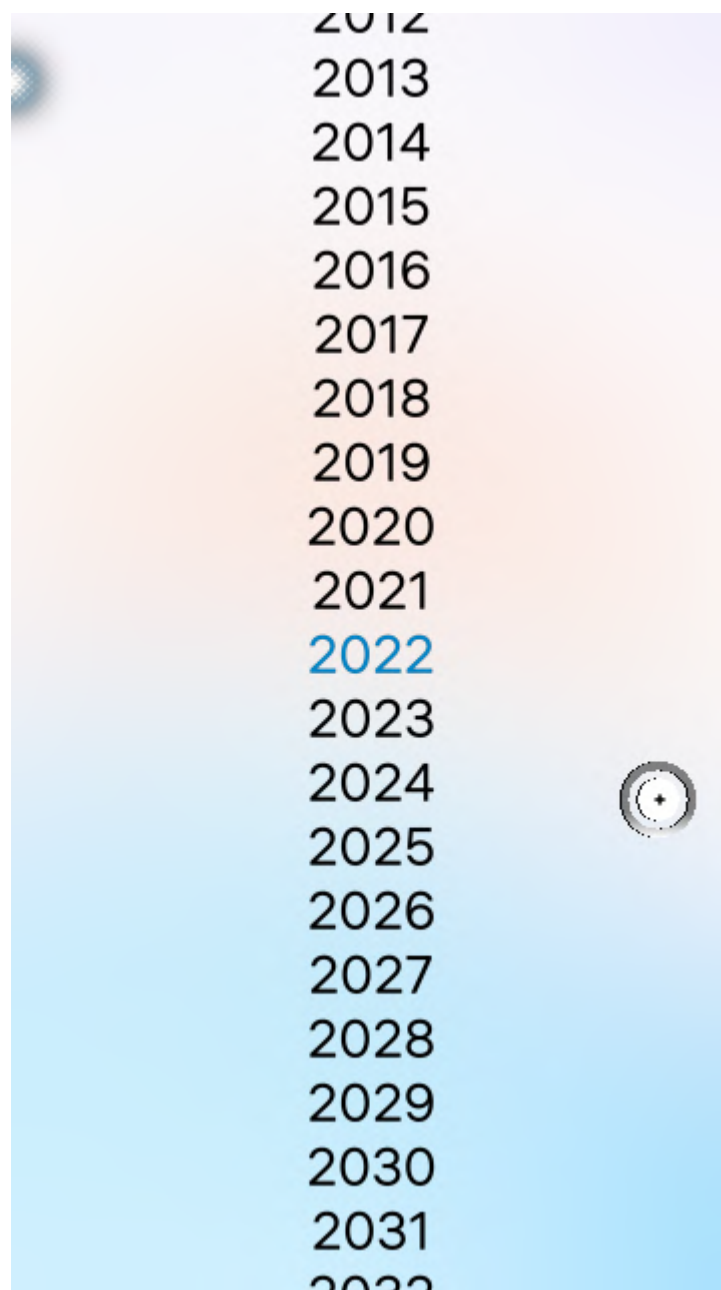


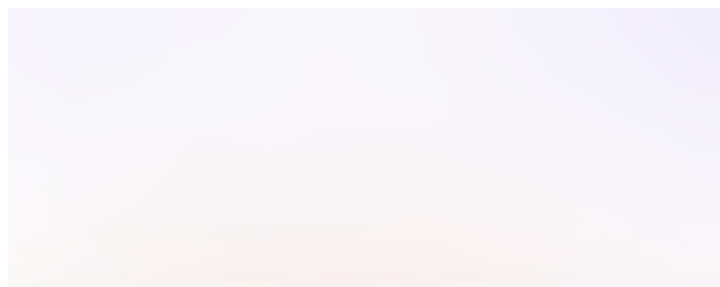
Рис. 7: Диалог ввода даты

В седьмом задании на странице находится браузер.



Рис. 8: Браузер

В восьмом задании список дел отображается как слайд-шоу.



7.12.22

Элемент списка 1

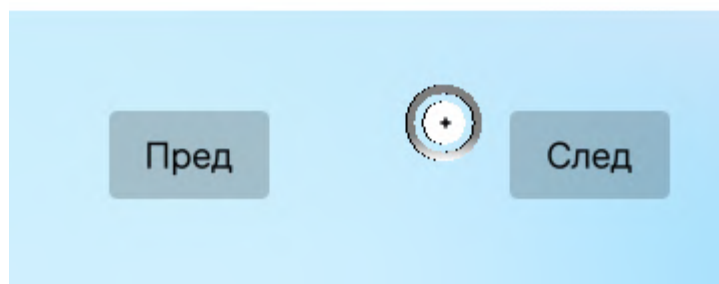


Рис. 9: Слайд-шоу

В девятом задании есть два вытягиваемых меню.

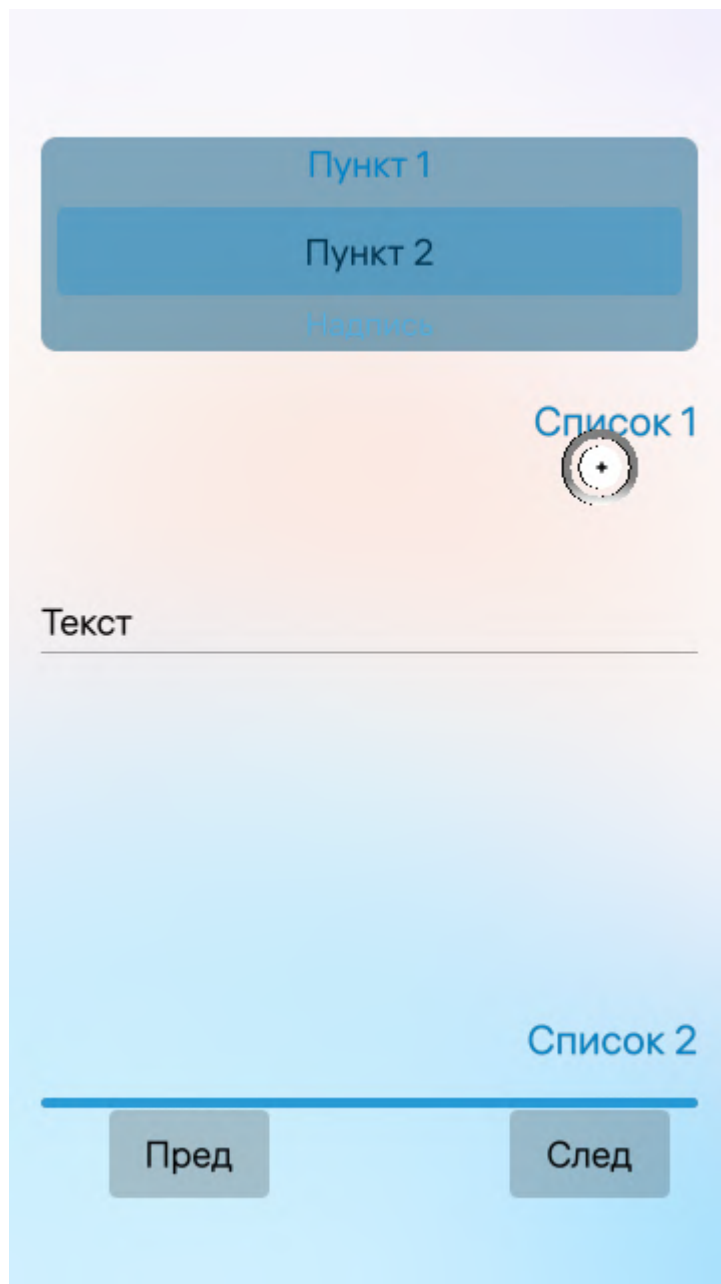


Рис. 10: Вытягиваемые меню

В десятом задании на элементах списка открывается контекстное меню.

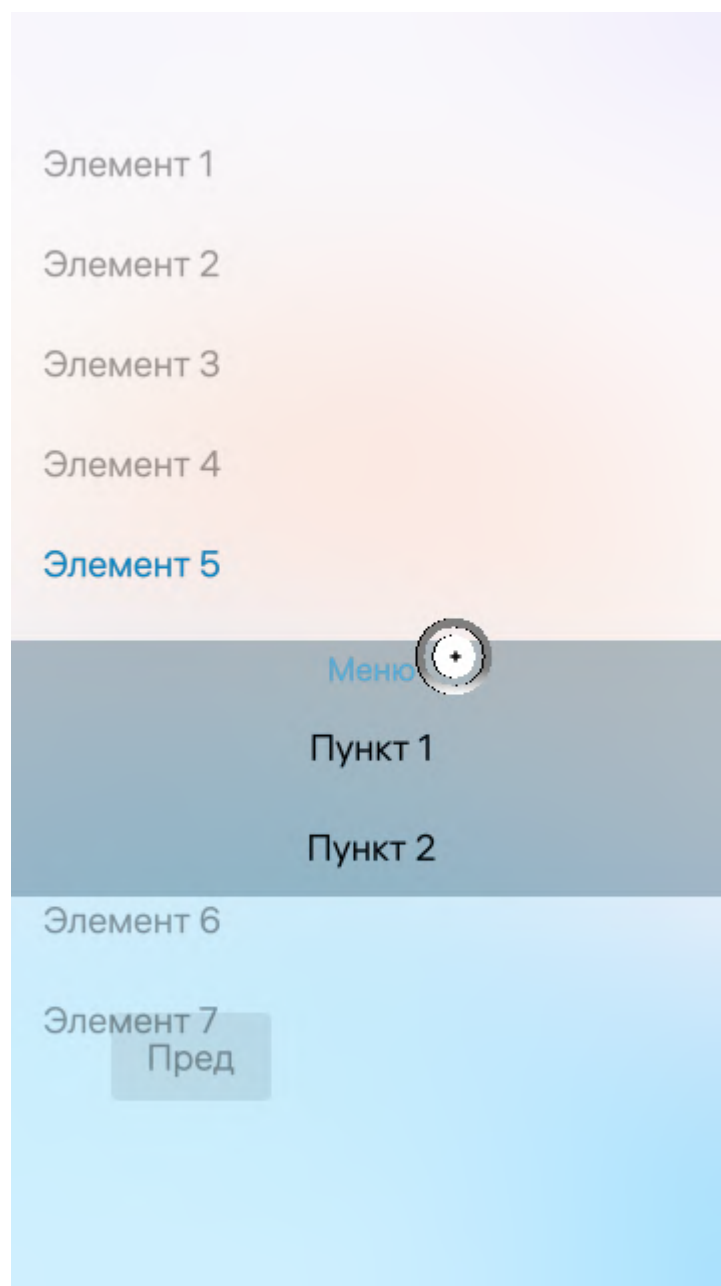


Рис. 11: Контекстное меню

На обложке приложения находится рабочий счетчик.



Рис. 12: Обложка

Заключение

В процессе выполнения данной лабораторной работы мы научились организовывать многостраничное приложение, использовать контейнеры Silica, вытягиваемые меню и обложку приложения.

Приложение

Page1-1.qml

```

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*****/

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    objectName: "mainPage"
    allowedOrientations: Orientation.All
}
```

```

Label {
    anchors.horizontalCenter: parent.horizontalCenter
    y: 400
    text: qsTr("Глубина стека %1").arg(pageStack.depth)
}

Button {
    anchors.horizontalCenter: parent.horizontalCenter
    y: 500
    text: "+"
    onClicked: pageStack.push(Qt.resolvedUrl(qsTr("Page1_%1.qml").arg((pageStack.
}

Button {
    y: 1050
    x: 500
    width: 160
    text: "След"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page2_1.qml")))
}
}

```

Page1-2.qml

```

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    objectName: "mainPage"
    allowedOrientations: Orientation.All

    Label {
        anchors.horizontalCenter: parent.horizontalCenter
        y: 400
        text: qsTr("Глубина стека %1").arg(pageStack.depth)
    }

    Button {
        anchors.horizontalCenter: parent.horizontalCenter
        y: 500
        text: "+"
        onClicked: pageStack.push(Qt.resolvedUrl(qsTr("Page1_%1.qml").arg((pageStack.
    }
}

```

Page1-2.qml

```
import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    objectName: "mainPage"
    allowedOrientations: Orientation.All

    Label {
        anchors.horizontalCenter: parent.horizontalCenter
        y: 400
        text: qsTr("Глубина стека %1").arg(pageStack.depth)
    }

    Button {
        anchors.horizontalCenter: parent.horizontalCenter
        y: 500
        text: "+"
        onClicked: pageStack.push(Qt.resolvedUrl(qsTr("Page1_%1.qml").arg((pageStack.depth + 1))))
    }
}
```

Page2-1.qml

```
/*
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**
*****/

```

```

import QtQuick 2.0
import Sailfish.Silica 1.0

```

```

Page {

    Column {

        anchors.horizontalCenter: parent.horizontalCenter
        y: 400
        spacing: 50

        Button {
            anchors.horizontalCenter: parent.horizontalCenter
            text: "Прикрепить страницу"
            width: 500
            onClicked: pageStack.pushAttached(Qt.resolvedUrl(qsTr("Page2_2.qml")))
        }

        Button {
            anchors.horizontalCenter: parent.horizontalCenter
            text: "Открепить"
            width: 300
            onClicked: pageStack.popAttached()
        }

    }

    Button {
        x: 100
        y: 1000
        width: 160
        text: "Пред"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page1_1.qml")))
    }

    Button {
        x: 500
        y: 1000
        width: 160
        text: "След"
    }

}

```



```

        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page3.qml")))
    }
}

```

Page2-2.qml

```

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*****/

```

```

import QtQuick 2.0
import Sailfish.Silica 1.0

```

```

Page {

```

```

    objectName: "mainPage"
    allowedOrientations: Orientation.All

    Button {
        anchors.centerIn: parent
        text: "Пред"
        onClicked: pageStack.navigateBack(1)
    }
}

```

Page3.qml

```

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```

*****/

```
import QtQuick 2.0
import Sailfish.Silica 1.0

Page {

    Column {
        anchors.centerIn: parent

        Button {
            text: "Ввести текст"
            onClicked: dialog.open()
            anchors.horizontalCenter: parent.horizontalCenter
            width: 371
        }
        TextField {
            id: field
            anchors.horizontalCenter: parent.horizontalCenter
            width: 370
        }
    }

    Dialog {
        id: dialog
        property alias firstTextFieldValue: firstTextField.text

        Column {
            width: parent.width
            spacing: Theme.paddingMedium
            DialogHeader { }
            TextField {
                id: firstTextField
                width: parent.width
            }
        }
        onAccepted: field.text = firstTextFieldValue
    }

    Button {
        x: 100
        y: 1000
        width: 160
        text: "Пред"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page2_1.qml")))
    }
    Button {
        x: 500
        y: 1000
    }
}
```

```

        width: 160
        text: "След"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page4.qml")))
    }
}

```

Page4.qml

```

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import QtQuick 2.0
import Sailfish.Silica 1.0

```

```

Page {

    Column {
        anchors.centerIn: parent

        Button {
            text: "Ввести дату"
            onClicked: dialog.open()
            width: 370
            anchors.horizontalCenter: parent.horizontalCenter
        }
        TextField {
            id: field
            anchors.horizontalCenter: parent.horizontalCenter
            width: 370
            text: ""
        }
    }

    DatePickerDialog {
        id: dialog
        onAccepted: {
            field.text = date.toString()
        }
    }

    Button {
        x: 100
        y: 1000
        width: 160
        text: "Пред"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page3.qml")))
    }
    Button {
        x: 500
        y: 1000
        width: 160
        text: "След"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page5.qml")))
    }
}

```

Page5.qml

```

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```



```

        id: field
        anchors.horizontalCenter: parent.horizontalCenter
        width: 370
    }
}

TimePickerDialog {
    id: dialog
    onAccepted: field.text = time.toTimeString()
}

Button {
    x: 100
    y: 1000
    width: 160
    text: "Пред"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page4.qml")))
}
Button {
    x: 500
    y: 1000
    width: 160
    text: "След"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page6.qml")))
}
}

```

Page6.qml

```

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    Item {
        anchors.centerIn: parent
        width: 700
        height: 900
        SilicaListView {
            anchors.fill: parent
            model: ListModel {
                ListElement { desc: "Элемент списка 1"; date: "7.12.22"; }
                ListElement { desc: "Элемент списка 2"; date: "11.12.22"; }
                ListElement { desc: "Элемент списка 3"; date: "15.12.22"; }
            }
            header: PageHeader { title: "Список дел" }
            section {
                property: 'date'
            }
        }
    }
}

```

```

        delegate: SectionHeader { text: section }
    }
    delegate: Text { text: desc }
    HorizontalScrollDecorator {}
}

}

Button {
    x: 100
    y: 1100
    width: 160
    text: "Пред"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page5.qml")))
}
Button {
    x: 500
    y: 1100
    width: 160
    text: "След"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page7.qml")))
}
}

```

Page7.qml

```

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    Item {
        anchors {
            left: parent.left; right: parent.right;
            verticalCenter: parent.verticalCenter;
        }
        height: parent.height * 0.7
        SilicaWebView {
            anchors.fill: parent
            url: "https://www.google.com"
        }
    }
}

Button {
    x: 100
    y: 1100
    width: 160
    text: "Пред"
}

```



```

        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page6.qml")))
    }
    Button {
        x: 500
        y: 1100
        width: 160
        text: "След"
        onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page8.qml")))
    }
}

```

Page8.qml

```

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {
    Item {
        anchors {
            left: parent.left; right: parent.right;
            verticalCenter: parent.verticalCenter;
        }
        height: parent.height * 0.8

        SlideshowView {
            id: view
            anchors.centerIn: parent
            height: width
            itemHeight: width; itemWidth: width;
            model: ListModel {
                ListElement { desc: "Элемент списка 1"; date: "7.12.22"; }
                ListElement { desc: "Элемент списка 2"; date: "11.12.22"; }
                ListElement { desc: "Элемент списка 3"; date: "15.12.22"; }
            }
            delegate: Rectangle {
                width: view.itemWidth;
                height: view.itemHeight;
                color: "white"
                Text {
                    anchors.horizontalCenter: parent.horizontalCenter
                    y: 100
                    text: date
                }
                Text {
                    anchors.centerIn: parent
                    text: desc
                }
            }
        }
    }
}

```

```

    }
}

}

Button {
    x: 100
    y: 1100
    width: 160
    text: "Пред"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page7.qml")))
}
Button {
    x: 500
    y: 1100
    width: 160
    text: "След"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page9.qml")))
}
}

```

Page9.qml

```

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**

```

```

*****/

```

```

import QtQuick 2.0
import Sailfish.Silica 1.0

```

```

Page {

    SilicaListView {
        PullDownMenu {
            MenuItem {
                text: "Пункт 1"
                onClicked: field.text = text
            }
            MenuItem {
                text: "Пункт 2"
                onClicked: field.text = text
            }
            MenuLabel { text: "Надпись" }
        }
        anchors {
            left: parent.left; right: parent.right;
        }
        height: parent.height * 0.1
        y: parent.height * 0.1
        header: PageHeader { title: "Список 1" }
    }

    TextField {
        id: field
        text: "Текст"
        anchors.centerIn: parent
    }

    SilicaListView {
        PushUpMenu {
            MenuItem {
                text: "Пункт 3"
                onClicked: field.text = text
            }
        }
    }
}

```

```

        MenuItem {
            text: "Пункт 4"
            onClicked: field.text = text
        }
        MenuLabel { text: "Надпись" }
    }
    anchors {
        left: parent.left; right: parent.right;
    }
    height: parent.height * 0.1
    y: parent.height * 0.75
    header: PageHeader { title: "Список 2" }
}

Button {
    x: 100
    y: 1100
    width: 160
    text: "Пред"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page8.qml")))
}
Button {
    x: 500
    y: 1100
    width: 160
    text: "След"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page10.qml")))
}
}

```

Page10.qml

```

import QtQuick 2.0
import Sailfish.Silica 1.0

Page {

    SilicaListView {
        anchors {
            left: parent.left; right: parent.right;
            verticalCenter: parent.verticalCenter
        }
        height: parent.height * 0.8
        model: 7
        delegate: ListItem {
            id: delegate
            Label {
                x: Theme.paddingLarge
            }
        }
    }
}

```

```

        text: "Элемент " + (index + 1)
        color: delegate.highlighted ? Theme.highlightColor : Theme.primaryColor
    }
    menu: ContextMenu {
        MenuLabel { text: "Меню" }
        MenuItem {
            text: "Пункт 1"
            onClicked: console.log("Нажат", text)
        }
        MenuItem {
            text: "Пункт 2"
            onClicked: console.log("Нажат", text)
        }
    }
}

Button {
    x: 100
    y: 1000
    width: 160
    text: "Пред"
    onClicked: pageStack.replace(Qt.resolvedUrl(qsTr("Page9.qml")))
}
}

```

DefaultCoverPage.qml

```

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*****/

import QtQuick 2.0
import Sailfish.Silica 1.0

CoverBackground {
    objectName: "defaultCover"

    property int counter: 0

    Label {
        id: label123
        anchors.centerIn: parent
        text: counter
    }

    CoverActionList {
        CoverAction {
            iconSource: "image://theme/icon-splus-add"
            onTriggered: counter++
        }
        CoverAction {
            iconSource: "image://theme/icon-splus-remove"
            onTriggered: counter--
        }
    }
}

```