Ministerul Educației al Republicii Moldova

Universitatea Tehnică a Moldovei Catedra Tehnologii Informaţionale

RAPORT

Lucrarea de laborator : 5

la Medii Interactive de Dezvoltare a Produselor Soft

Tema: Dezvoltarea unei aplicatii mobile

st.gr. TI – 143	
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A efectuat:

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Scopul lucrării:

Dezvoltarea unei aplicatii mobile

- Visual Studio
- Xcode
- Android Studio
- Eclipse
- NetBeans

Prerequisites:

- IDEs: Visual Studio, Xcode, Android Studio, Eclipse, NetBeans
- Limbaje de programare: C#, JavaScript, Objective C, Java, Swift
- Tehnologii si Frameworks: Windows Mobile, iOS, Android

Objective:

- Cunostinte de baza privina arhitectura unei aplicatii mobile
- Cunostinte de baza ale platformei SDK

Conditii Generale:

Se considera ca ai trecut cu succes laboratorul daca ai urmat toti pasii din:

- 1. Submission Process
- 2. Trebuie sa elaborezi un program prototip care il vei arata in timpul laboratorului
- 3. Ai respectat DL (data limita)

Technical Prerequisites:

- Your application must be developed and tested in SDK included Emulator.
- You probably would like to run your application on real device.
- Your application must support multiple screen resolutions.

Laboratory Requirements:

- *Basic Level* (nota 5 || 6) :
 - Realizeaza o aplicatie simpla "Hello world" care va contine 2 butoane care vor afisa 2 pagini diferite, folosing 2 elemente diferite de interactiune
- *Normal Level* (nota 7 || 8):
 - o Implimenteaza un simplu ceas sau stopwatch
- *Advanced Level* (nota 9 || 10):
 - o Realizeaza o aplicatie care va implimenta tehnica Pomodoro SAU
 - O alta aplicatie sofisticata la alegere
 - Game
- Bonus Point
 - Foloseste libraria cross platform pentru a realiza o apliacatie cross platform (aplicatia poate fi compilata atit pe Android, cit si pe iOS)
 - o Folosirea Facebook/Twitter/Google Maps API

Cod Sursa:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   android:paddingBottom="@dimen/activity vertical margin"
   android:paddingLeft="@dimen/activity_horizontal_margin"
   android:paddingRight="@dimen/activity_horizontal_margin"
   android:paddingTop="@dimen/activity_vertical_margin"
   app:layout behavior="@string/appbar scrolling view behavior"
   tools:context="com.example.user.myapplication.MainActivity"
   tools:showIn="@layout/main"
   android:background="@color/colorPrimary">
   <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
        android:id="@+id/time_view"
        android: textSize="70sp"
        android: text="0:00:00"
        android:layout alignParentTop="true"
        android:layout centerHorizontal="true" />
   <Button
        android:layout width="wrap content"
       android:layout height="wrap content"
        android: text="Start"
        android:id="@+id/btnStart"
        android:onClick="onClickStart"
        android:layout below="@+id/time view"
        android:layout_centerHorizontal="true"
        android:layout marginTop="66dp"
        android:textColor="#ffffff"
        android:singleLine="false"
        android:background="@color/colorAccent" />
   <Button
       android:layout width="wrap content"
       android:layout height="wrap content"
       android: text="Stop"
       android:id="@+id/btnStop"
       android:onClick="onClickStop"
        android:textColor="#ffffff"
        android:layout_centerVertical="true"
        android:layout_alignLeft="@+id/btnReset"
        android:layout alignStart="@+id/btnReset"
        android:background="#575052" />
   <Button
       android:layout width="wrap content"
       android:layout height="wrap content"
        android: text="Reset"
        android:id="@+id/btnReset"
        android:onClick="onClickReset"
        android:layout_below="@+id/btnStop"
        android:layout_centerHorizontal="true"
        android:layout marginTop="43dp"
        android:textColor="#ffffff"
        android:background="#575052" />
```

Main:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout height="match parent"
    android:fitsSystemWindows="true"
    tools:context="com.example.user.myapplication.MainActivity">
    <android.support.design.widget.AppBarLayout</pre>
        android:layout width="match parent"
        android: layout height="wrap content"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
            android:layout width="match parent"
            android:layout height="?attr/actionBarSize"
            android:background="#575052"
            app:popupTheme="@style/AppTheme.PopupOverlay" />
    </android.support.design.widget.AppBarLayout>
    <include layout="@layout/content scrolling" />
    <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/fab"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_gravity="bottom|end"
        android:layout margin="@dimen/fab margin"
        android:src="@android:drawable/ic dialog email"
        android:background="#ffffff" />
```

</android.support.design.widget.CoordinatorLayout>

Aplicatia:



Concluzie:	
In urma efectuarii acestei lucrari o Studio. Am realizat un simplu cro care poate fi utilizat in orice situa sistemul de operare Android. Mo	de laborator am capatat experienta in lucrul cu Andronometru format din 3 butoane (Start, Stop, Restor tie. Aplicatia a fost testata cu succes pe un telefonodul de utilizare al aplicației MyApplication este pot seta butoanele. Scopurile propuse au fost