*ПРИЛОЖЕНИЕ 2*

**Текст программы**

База данных:

CREATE TABLE TV\_S\_OFFICIAL\_O

(

•\_OFFICIAL\_ID NUMBER(12,0) NOT NULL ,

•\_LAST\_NAME VARCHAR2(30) NOT NULL ,

•\_FIRST\_NAME VARCHAR2(30) NOT NULL ,

•\_SECOND\_NAME VARCHAR2(30) NOT NULL ,

•\_POSITION VARCHAR2(255) NULL ,

•\_PHONE VARCHAR2(40) NULL ,

•\_DATE\_BEGIN DATE NOT NULL ,

•\_DATE\_END DATE NOT NULL ,

•\_DESCRIPTION VARCHAR2(255) NULL ,

•\_REPRESENT\_ID NUMBER(12,0) NOT NULL ,

•\_S\_FIO\_–\_ФИО VARCHAR2(150) NULL ,

•\_SOURCE\_NAME VARCHAR2(30) NULL ,

•\_E3\_USER\_ID NUMBER(12,0) NOT NULL ,

•\_E3\_DATE\_UPDATE DATE NOT NULL ,

•\_E3\_SESSION\_ID NUMBER(12,0) NOT NULL

);

CREATE UNIQUE INDEX XPKTV\_S\_OFFICIAL\_O ON TV\_S\_OFFICIAL\_O

(•\_OFFICIAL\_ID ASC,•\_REPRESENT\_ID ASC);

ALTER TABLE TV\_S\_OFFICIAL\_O

ADD CONSTRAINT XPKTV\_S\_OFFICIAL\_O PRIMARY KEY (•\_OFFICIAL\_ID,•\_REPRESENT\_ID);

CREATE TABLE TV\_S\_REPRESENT\_O

(

•\_REPRESENT\_ID NUMBER(12,0) NOT NULL ,

•\_REPRESENT\_LABEL VARCHAR2(120) NOT NULL ,

•\_REPRESENT\_NAME VARCHAR2(255) NULL ,

•\_PHONE VARCHAR2(254) NULL ,

•\_FAX VARCHAR2(20) NULL ,

•\_EMAIL\_ADR VARCHAR2(60) NULL ,

•\_KEY\_JURIDICAL\_ADDRESS NUMBER(12,0) NULL ,

•\_KEY\_REAL\_ADDRESS NUMBER(12,0) NULL ,

•\_TYPE\_UNIT\_ID NUMBER(12,0) NOT NULL ,

•\_DATE\_BEGIN DATE NOT NULL ,

•\_DATE\_END DATE NOT NULL ,

•\_DESCRIPTION VARCHAR2(255) NULL ,

•\_KOD\_FROM\_SOURCE NUMBER(20,0) NULL ,

•\_SOURCE\_NAME VARCHAR2(30) NULL ,

•\_KEY\_AISZIK NUMBER(12,0) NULL ,

•\_E3\_USER\_ID NUMBER(12,0) NOT NULL ,

•\_E3\_DATE\_UPDATE DATE NOT NULL ,

•\_E3\_SESSION\_ID NUMBER(12,0) NOT NULL ,

•\_ANCESTOR\_KEY NUMBER(12,0) NULL ,

•\_KOD\_ORG VARCHAR2(20) NULL ,

•\_DPRT\_ID NUMBER(12,0) NULL

);

CREATE UNIQUE INDEX XPKTV\_S\_REPRESENT\_O ON TV\_S\_REPRESENT\_O

(•\_REPRESENT\_ID ASC);

ALTER TABLE TV\_S\_REPRESENT\_O

ADD CONSTRAINT XPKTV\_S\_REPRESENT\_O PRIMARY KEY (•\_REPRESENT\_ID);

CREATE TABLE USER\_TABLE

(

LOGIN VARCHAR2(16) NOT NULL ,

PASSWORD VARCHAR2(16) NOT NULL ,

•\_OFFICIAL\_ID NUMBER(12,0) NOT NULL ,

•\_REPRESENT\_ID NUMBER(12,0) NOT NULL

);

CREATE UNIQUE INDEX XPKUSER\_TABLE ON USER\_TABLE

(•\_OFFICIAL\_ID ASC,•\_REPRESENT\_ID ASC);

ALTER TABLE USER\_TABLE

ADD CONSTRAINT XPKUSER\_TABLE PRIMARY KEY (•\_OFFICIAL\_ID,•\_REPRESENT\_ID);

ALTER TABLE TV\_S\_OFFICIAL\_O

ADD (CONSTRAINT состоит\_в FOREIGN KEY (•\_REPRESENT\_ID) REFERENCES TV\_S\_REPRESENT\_O(•\_REPRESENT\_ID));

ALTER TABLE USER\_TABLE

ADD (CONSTRAINT содержит FOREIGN KEY (•\_OFFICIAL\_ID,•\_REPRESENT\_ID) REFERENCES TV\_S\_OFFICIAL\_O(•\_OFFICIAL\_ID,•\_REPRESENT\_ID));

// LoginActivity.java

// (мобильное приложение)

package com.is\_cmirit;

import android.content.Intent;

import android.os.AsyncTask;

import android.os.Bundle;

import android.os.SystemClock;

import android.support.v7.app.AppCompatActivity;

import android.view.View;

import android.view.WindowManager;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import org.ksoap2.SoapEnvelope;

import org.ksoap2.SoapFault;

import org.ksoap2.serialization.PropertyInfo;

import org.ksoap2.serialization.SoapObject;

import org.ksoap2.serialization.SoapSerializationEnvelope;

import org.ksoap2.transport.HttpTransportSE;

import org.xmlpull.v1.XmlPullParserException;

import java.io.IOException;

public class LoginActivity extends AppCompatActivity {

// Данные для подключения к веб-сервису

private String URL = "http://10.0.2.2:8088/WebService\_Test111/WebService\_Test111Service?wsdl";

private String NAMESPACE = "http://webservice\_package/";

private int TIMEOUT = 3000;

private long mLastClickTime = 0;

private EditText userLogin;

private EditText userPassword;

private Button btnLogin;

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login);

//setTitle("");

//getWindow().setBackgroundDrawableResource(R.drawable.auth\_background);

this.getWindow().setSoftInputMode(WindowManager.LayoutParams.SOFT\_INPUT\_STATE\_ALWAYS\_HIDDEN);

userLogin = (EditText)findViewById(R.id.userLogin);

userPassword = (EditText)findViewById(R.id.userPassword);

btnLogin = (Button)findViewById(R.id.btnLogin);

btnLogin.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Запрет на повторное нажатие кнопки

if (SystemClock.elapsedRealtime() - mLastClickTime < 1000){

return;

}

mLastClickTime = SystemClock.elapsedRealtime();

String userLoginText = userLogin.getText().toString();

String userPasswordText = userPassword.getText().toString();

if(userLoginText.trim().equals("") || userPasswordText.trim().equals(""))

{

Toast.makeText(getApplicationContext(), "Введите логин и пароль!", Toast.LENGTH\_SHORT)

.show();

return;

}

btnLogin.setEnabled(false);

new getPlans().execute("tryLoginTest", userLoginText, userPasswordText);

}

});

}

class getPlans extends AsyncTask<String, Void, String> {

@Override

protected void onPostExecute(String s) {

if(s.equals("0")) {

Toast.makeText(getApplicationContext(), "Неверный логин или пароль!", Toast.LENGTH\_SHORT)

.show();

}

else if(s.equals("2"))

{

Toast.makeText(getApplicationContext(), "Не удалось установить соединение с сервером", Toast.LENGTH\_SHORT)

.show();

}

else {

try {

String[] words = s.split("\\|");

Intent intent = new Intent(LoginActivity.this, MainActivity.class);

intent.putExtra("OFFICIAL\_ID", words[0]);

intent.putExtra("REPRESENT\_ID", words[2]);

intent.putExtra("OFFICIAL\_LABEL", words[1]);

intent.putExtra("REPRESENT\_LABEL", words[3]);

LoginActivity.this.startActivity(intent);

}

catch (Exception exception) {

System.out.println("Exception " + exception);

}

}

btnLogin.setEnabled(true);

}

@Override

protected String doInBackground(String... params) {

String result = "";

SoapObject soapObject = new SoapObject(NAMESPACE, params[0]);

String SOAP\_ACTION = NAMESPACE + params[0];

PropertyInfo propertyInfo1 = new PropertyInfo();

propertyInfo1.setName("login");

propertyInfo1.setValue(params[1]);

propertyInfo1.setType(String.class);

soapObject.addProperty(propertyInfo1);

PropertyInfo propertyInfo2 = new PropertyInfo();

propertyInfo2.setName("password");

propertyInfo2.setValue(params[2]);

propertyInfo2.setType(String.class);

soapObject.addProperty(propertyInfo2);

SoapSerializationEnvelope envelope = new SoapSerializationEnvelope(SoapEnvelope.VER11);

envelope.setOutputSoapObject(soapObject);

try {

HttpTransportSE httpTransportSE = new HttpTransportSE(URL, TIMEOUT);

httpTransportSE.call(SOAP\_ACTION, envelope);

SoapObject result1 = (SoapObject)envelope.bodyIn;

if(result != null){

result = result1.getProperty(0).toString();

System.out.println(result1.getProperty(0).toString());

}

} catch (SoapFault soapFault) {

System.out.println("Soap Fault Exception " + soapFault);

result = "1";

} catch (IOException ioException) {

System.out.println("IOException " + ioException);

result = "2";

} catch (XmlPullParserException parserException) {

System.out.println("XmlPullParserException " + parserException);

result = "3";

} catch (Exception exception) {

System.out.println("Exception " + exception);

result = "4";

}

return result;

}

}

}

// activity\_login.xml

// (мобильное приложение)

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<ImageView

android:layout\_width="match\_parent"

android:layout\_height="100dp"

android:paddingTop="15dp"

android:id="@+id/loginLogo"

android:src="@drawable/ic\_login\_logo"

android:scaleType="fitCenter"

android:layout\_marginBottom="30dp"

/>

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/loginLogo"

android:id="@+id/scrollView"

>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="@drawable/trans\_white\_rectangle"

android:layout\_marginStart="30dp"

android:layout\_marginEnd="30dp"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Авторизация"

android:textColor="@color/black"

android:textSize="20sp"

android:textStyle="bold"

android:layout\_marginBottom="5dp"

android:paddingStart="10dp"

android:paddingEnd="10dp"

android:paddingTop="10dp"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Добро пожаловать в приложение для оценки состояния дворовых территорий города Череповца. Введите логин и пароль сотрудника, прежде чем продолжить"

android:textColor="@color/black"

android:textSize="14sp"

android:layout\_marginBottom="30dp"

android:paddingStart="10dp"

android:paddingEnd="10dp"

/>

<AutoCompleteTextView

android:id="@+id/userLogin"

android:layout\_width="match\_parent" android:layout\_height="40dp" android:layout\_marginBottom="10dp"

android:layout\_marginEnd="15dp"

android:layout\_marginStart="15dp"

android:background="@drawable/rounded\_white"

android:drawableLeft="@drawable/ic\_login\_user"

android:drawablePadding="5dp"

android:hint="Введите логин"

android:paddingLeft="10dp"

android:paddingStart="10dp"

android:textSize="14sp"

android:textColor="@color/black"

android:singleLine="true"

/>

<AutoCompleteTextView

android:id="@+id/userPassword"

android:inputType="textPassword"

android:layout\_width="match\_parent"

android:layout\_height="40dp"

android:layout\_marginEnd="15dp"

android:layout\_marginStart="15dp"

android:background="@drawable/rounded\_white"

android:drawableLeft="@drawable/ic\_login\_password"

android:drawablePadding="5dp"

android:hint="Введите пароль"

android:paddingLeft="10dp"

android:paddingStart="10dp"

android:textSize="14sp"

android:layout\_marginBottom="10dp"

android:textColor="@color/black"

android:singleLine="true"

/>

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Сохранить данные авторизации"

android:textColor="@color/black"

android:layout\_gravity="center"

android:paddingLeft="5dp"

android:textSize="13sp"

android:id="@+id/checkBox"

android:buttonTint="@color/black"

/>

<Button

android:id="@+id/btnLogin"

android:layout\_width="wrap\_content"

android:layout\_height="50dp"

android:textColor="@color/white"

android:text="Войти"

android:textStyle="normal"

android:background="@drawable/button"

android:layout\_gravity="center"

android:paddingLeft="20dp"

android:paddingRight="20dp"

android:layout\_marginTop="20dp"

android:layout\_marginBottom="16dp"

/>

</LinearLayout>

</ScrollView>

</RelativeLayout>

// WebService.Java

// (веб-сервис)

public String tryLoginTest(

@WebParam(name = "login") String login,

@WebParam(name = "password") String password){

String result = "0";

try {

// получаем список пользователей

Class.forName(DRIVER\_CLASS);

Connection con = DriverManager.getConnection(URL, USER, PASSWORD);

Statement stmt = con.createStatement();

String OFFICIAL\_ID = "";

ResultSet rs = stmt.executeQuery("select OFFICIAL\_ID from USER\_TABLE where LOGIN='"+login+"' and PASSWORD='"+password+"'");

while (rs.next()) {

OFFICIAL\_ID = rs.getString(1);

result = OFFICIAL\_ID + "|";

}

String represent\_id = "";

rs = stmt.executeQuery("select last\_name, first\_name, second\_name, represent\_id from tv\_s\_official\_o where official\_id='"+OFFICIAL\_ID+"'");

while (rs.next()) {

result += rs.getString(1) + " ";

result += rs.getString(2) + " ";

result += rs.getString(3) + "|";

represent\_id = rs.getString(4);

result += represent\_id + "|";

}

rs = stmt.executeQuery("select represent\_label from tv\_s\_represent\_o where represent\_id='"+represent\_id+"'");

while (rs.next()) {

result += rs.getString(1);

}

stmt.close();

rs.close();

con.close();

} catch (ClassNotFoundException e) {

result = "Could not find the database driver";

} catch (SQLException e) {

result = "Could not connect to the database!";

} catch (Exception e) {

result = e.toString();

}

//System.out.println(result);

return result;

}