NowledgeNet
developed and designed by
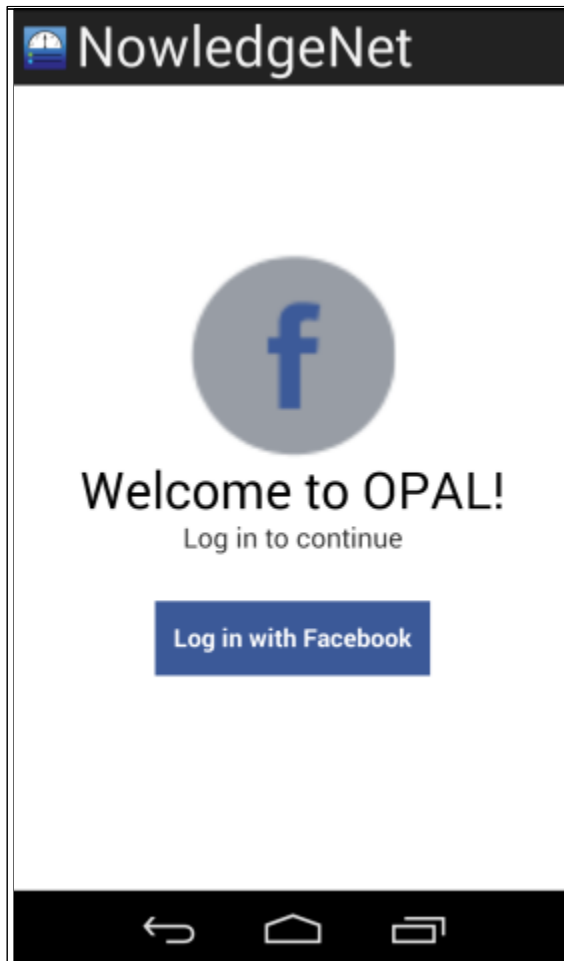
Michael **O**wens – Project Manager
Joshua **P**roctor – Marketing/Copyright Management
And
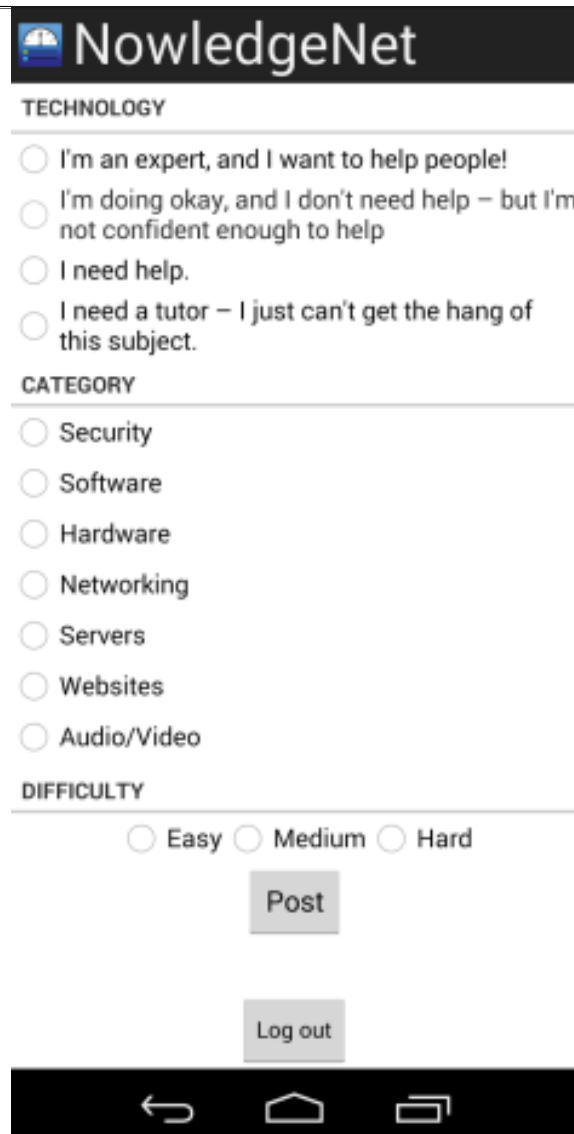Logan **L**opez – Senior Lead Software Developer
http://opaltech.us

FBLA 2013 Mobile App Competition

English

Screenshots are made from within XML viewer to capture all of the layout
They are taken with the dimensions of a Galaxy Nexus smartphone
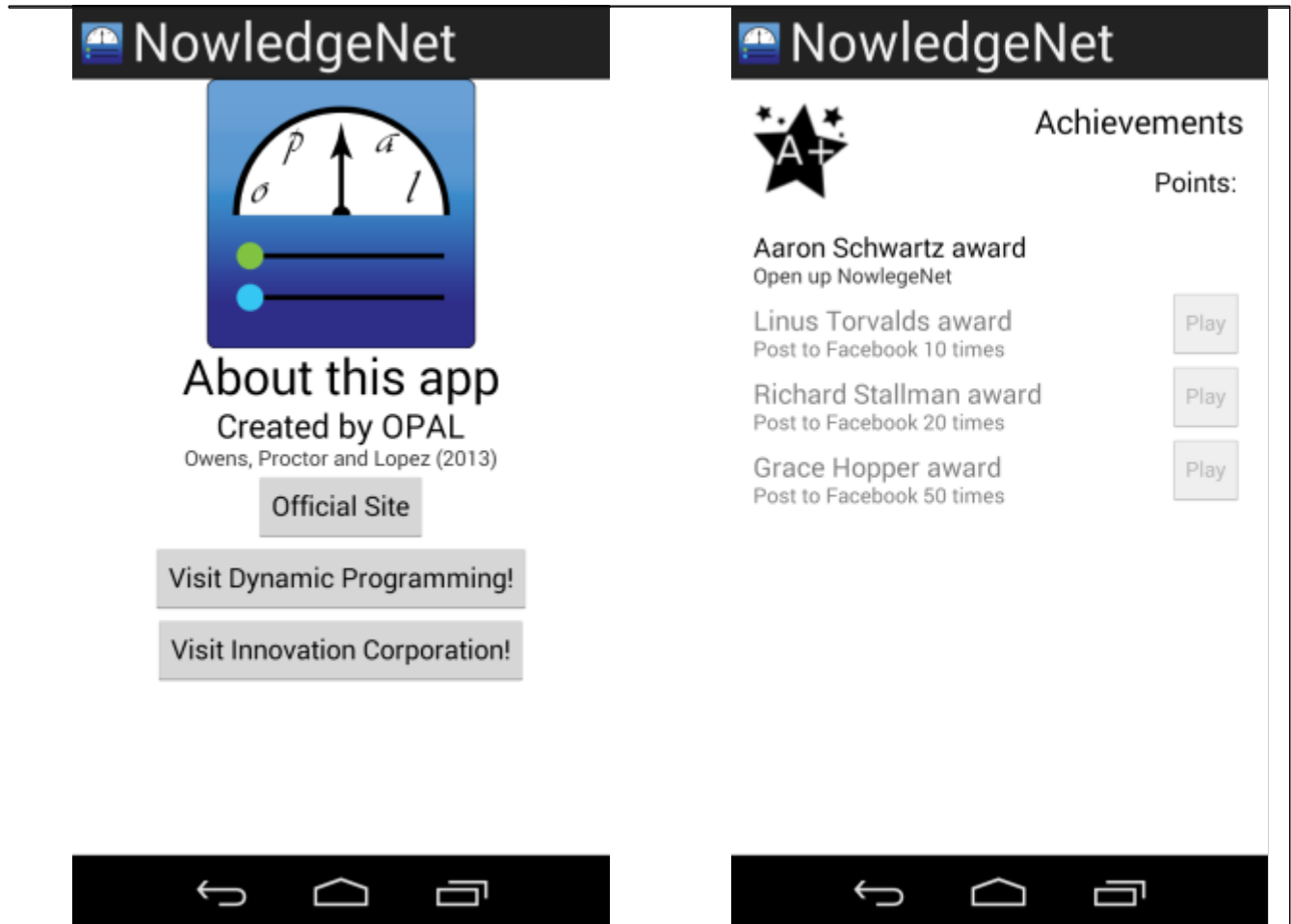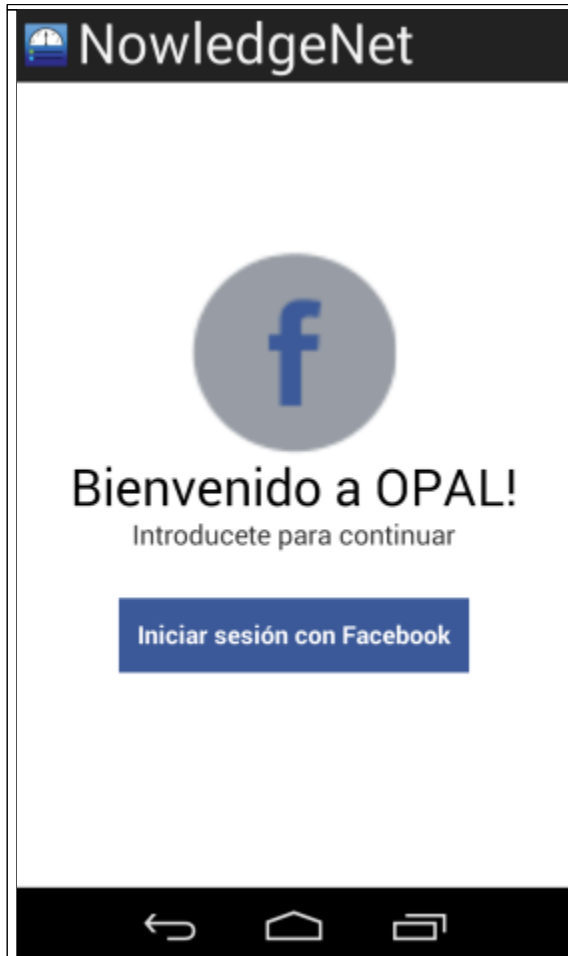

Login Screen

Main screen for posting

About page for app

Achievements center
Points not visible due to XML viewer

Spanish

These translations were verified by a native speaker of the Colombian dialect of Spanish

NowledgeNet

Bienvenido a OPAL!

Introducete para continuar

Iniciar sesión con Facebook

Login Screen

NowledgeNet

TECNOLOGIA

- Yo soy un experto y quiero ayudar a los personas!
- Yo estoy haciendo bien y no necesito ayuda pero no me siento confiado suficiente para ayudar.
- You necesito ayuda.
- Yo necesito un tutor - yo no puedo coger de lo que se trata.

CATEGORÍA

- Seguridad
- Software
- Hardware
- Redes
- Servidores
- Sitios web
- Sonido/Video

DIFFICULTAD

- Facíl ○ Mediano ○ Difícil

Envie

Salirse

Main screen for posting

Spanish (cont.)

NowledgeNet

Acerca de esta app

Creado por OPAL

Owens, Proctor y Lopez (2013)

Sitio Official

Visitá Dynamic Programming!

Visitá Innovation Corporation!

About page for app

NowledgeNet

Logros

Puntos:

Aaron Schwartz premio
Ejecutar NowlegeNet

Linus Torvalds premio
Envie a Facebook 10 veces

Juega

Richard Stallman premio
Envie a Facebook 20 veces

Juega

Grace Hopper premio
Envie a Facebook 50 veces

Juega

Achievements center
Points not visible due to XML viewer

Polish

Polish translations verified by a native speaker

Login Screen
*Login button not translated due to
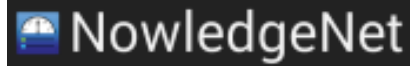Facebook not supporting translation*

Main screen for posting

A special thank you to Karmen Nejranowska for the translations into Polish

NowledgeNet

O tej aplikacji

Stworzony przez OPAL

Owens, Proctor i Lopez (2013)

Strona oficjalna

Odwiedź Dynamic Programming!

Odwiedź Innovation Corporation!

NowledgeNet

Osiągnięcia

Punkty:

Aaron Schwartz nagroda
Otworzyć NowlegeNet

Linus Torvalds nagroda
Opublikuj na Facebooka 10 razy

Odtwórz

Richard Stallman nagroda
Opublikuj na Facebooka 20 razy

Odtwórz

Grace Hopper nagroda
Opublikuj na Facebooka 50 razy

Odtwórz

About page for app

Achievements center
Points not visible due to XML viewer

A special thank you to Karmen Nejranowska for the translations into Polish

Source code

provided in order of importance and also in order of execution of the program flow

```java
package com.opaltech.nowledgenet;

import android.annotation.SuppressLint;

public class MainActivity extends FragmentActivity {
    private static final int LOGIN = 0;
    private static final int AUTHED = 1;
    private static final int LOGOUT = 2;
    private static final int FRAGMENT_COUNT = LOGOUT +1;
    private boolean isResumed = false;
    public static String difficulty;
    public static String category;
    private WebDialog dialog = null;
    public int techLvl = 0;
    public int score = 0;

    private Fragment[] fragments = new Fragment[FRAGMENT_COUNT];


    private UiLifecycleHelper uiHelper;
    private Session.StatusCallback callback =
        new Session.StatusCallback() {
        @Override
        public void call(Session session,
                SessionState state, Exception exception) {
            onSessionStateChange(session, state, exception);
        }
    };

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        //restores any saved score or if no saved score sets to 0
        SharedPreferences sharedPref = this.getSharedPreferences(
                "savedScore", Context.MODE_PRIVATE);
        score = sharedPref.getInt("saved_score", 0);
        uiHelper = new UiLifecycleHelper(this, callback);
        uiHelper.onCreate(savedInstanceState);

        FragmentManager fm = getSupportFragmentManager();
        fragments[LOGIN] = fm.findFragmentById(R.id.loginFragment);
        fragments[AUTHED] = fm.findFragmentById(R.id.authedFragment);
        fragments[LOGOUT] = fm.findFragmentById(R.id.userSettingsFragment);

        FragmentTransaction transaction = fm.beginTransaction();
        for(int i = 0; i < fragments.length; i++) {
            transaction.hide(fragments[i]);
        }
        transaction.commit();
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
```

```java
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
        case R.id.action_about:
            aboutApp();
            return true;
        case R.id.action_achieve:
            goAchieve();
            return true;
        }
        return super.onOptionsItemSelected(item);
    }

    public void aboutApp(){
        // when the user goes to the about in the Action bar send them to the about page
        Intent intent = new Intent(this, AboutApp.class);
        startActivity(intent);
    }

    private void showFragment( int fragmentIndex, boolean addToBackStack) {
        FragmentManager fm = getSupportFragmentManager();
        FragmentTransaction transaction = fm.beginTransaction();
        for (int i = 0; i < fragments.length; i++) {
            if (i == fragmentIndex) {
                transaction.show(fragments[i]);
            } else {
                transaction.hide(fragments[i]);
            }
        }
        if (addToBackStack) {
            transaction.addToBackStack( null);
        }
        transaction.commit();
    }


    @Override
    public void onResume() {
        //restores any saved score or if no saved score sets to 0
        SharedPreferences sharedPref = this.getSharedPreferences(
                "savedScore", Context. MODE_PRIVATE);
        score = sharedPref.getInt("saved_score", 0);
        super.onResume();
        uiHelper.onResume();
        isResumed = true;
    }

    @Override
    public void onPause() {
        super.onPause();
        uiHelper.onPause();
        isResumed = false;
    }

    @Override
    public void onActivityResult( int requestCode, int resultCode, Intent data) {
```

```java
            super.onActivityResult(requestCode, resultCode, data);
            uiHelper.onActivityResult(requestCode, resultCode, data);
    }

    @Override
    public void onDestroy() {
        SharedPreferences sharedPref = this.getSharedPreferences(
                "savedScore", Context.MODE_PRIVATE );
        SharedPreferences.Editor editor = sharedPref.edit();
        editor.putInt("saved_score", score);
        editor.commit();
        super.onDestroy();
        uiHelper.onDestroy();
    }

    @Override
    protected void onSaveInstanceState(Bundle outState) {
        super.onSaveInstanceState(outState);
        uiHelper.onSaveInstanceState(outState);
    }

    private void onSessionStateChange(Session session, SessionState state, Exception exception) {
        // Only make changes if the activity is visible
        if (isResumed) {
            FragmentManager manager = getSupportFragmentManager();
            // Get the number of entries in the back stack
            int backStackSize = manager.getBackStackEntryCount();
            // Clear the back stack
            for (int i = 0; i < backStackSize; i++) {
                manager.popBackStack();
            }
            if (state.isOpened()) {
                // If the session state is open:
                // Show the authenticated fragment
                showFragment( AUTHED, false);
            } else if (state.isClosed()) {
                // If the session state is closed:
                // Show the login fragment
                showFragment( LOGIN, false);
            }
        }
    }

    @Override
    protected void onResumeFragments() {
        super.onResumeFragments();
        Session session = Session. getActiveSession ();

        if (session != null && session.isOpened()) {
            // if the session is already open,
            // try to show the selection fragment
            showFragment( AUTHED, false);
        } else {
            // otherwise present the splash screen
            // and ask the person to login.
            showFragment( LOGIN, false);
        }
```

```java
    }
    public void confidenceSelected(View view) {
        //checks if something was actually checked
        boolean checked = ((RadioButton) view).isChecked();
        //finds out which one was checked and assigns appropriate level
        switch(view.getId()){
            case R.id.radio_expertTech :
                if (checked)
                    techLvl = 4;
                break;
            case R.id.radio_okayTech :
                if (checked)
                    techLvl = 3;
                break;
            case R.id.radio_helpTech :
                if (checked)
                    techLvl = 2;
                break;
            case R.id.radio_tutorTech :
                if (checked)
                    techLvl = 1;
                break;
        }
    }
    public void difficultySelected(View view) {
        //checks if something was actually checked
        boolean checked = ((RadioButton) view).isChecked();
        //finds out which one was checked and assigns appropriate level
        switch(view.getId()){
            case R.id.radio_easy :
                if (checked)
                    difficulty = getString(R.string. lvlDiff1);
                break;
            case R.id.radio_med :
                if (checked)
                    difficulty = getString(R.string. lvlDiff2);
                break;
            case R.id.radio_hard :
                if (checked)
                    difficulty = getString(R.string. lvlDiff3);
                break;
        }
    }
    @SuppressLint("DefaultLocale")
    public void categorySelected(View view) {
        //checks if something was actually checked
        boolean checked = ((RadioButton) view).isChecked();
        //finds out which one was checked and assigns appropriate level
        switch(view.getId()){
            case R.id.catSecurity :
                if (checked)
                    category = getString(R.string. security).toLowerCase();
                break;
            case R.id.catSoftware :
                if (checked)
                    category = getString(R.string. software).toLowerCase();
                break;
```

```java
                case R.id.catHardware:
                    if (checked)
                        category = getString(R.string.hardware).toLowerCase();
                    break;
                case R.id.catNetwork:
                    if (checked)
                        category = getString(R.string.network).toLowerCase();
                    break;
                case R.id.catServer:
                    if (checked)
                        category = getString(R.string.server).toLowerCase();
                    break;
                case R.id.catSite:
                    if (checked)
                        category = getString(R.string.sites).toLowerCase();
                    break;
                case R.id.catAV:
                    if (checked)
                        category = getString(R.string.a_v).toLowerCase();
                    break;
            }
        }
    public void postHelp(View view){
        // make sure to check that the (l)user filled out everything
        if(techLvl == 0){
            Context context = getApplicationContext();
            CharSequence text = getString(R.string.confidence_error);
            int duration = Toast.LENGTH_SHORT;

            Toast toast = Toast.makeText(context, text, duration);
            toast.show();
        }
        else if(category == null){
            Context context = getApplicationContext();
            CharSequence text = getString(R.string.category_error);
            int duration = Toast.LENGTH_SHORT;

            Toast toast = Toast.makeText(context, text, duration);
            toast.show();
        }
        else if(difficulty == null){
            Context context = getApplicationContext();
            CharSequence text = getString(R.string.difficulty_error);
            int duration = Toast.LENGTH_SHORT;

            Toast toast = Toast.makeText(context, text, duration);
            toast.show();
        }
        else{
            score += 1;
            SharedPreferences sharedPref = this.getSharedPreferences(
                    "savedScore", Context.MODE_PRIVATE);
            SharedPreferences.Editor editor = sharedPref.edit();
            editor.putInt("saved_score", score);
            editor.commit();
            Bundle params = new Bundle();
            params.putString("message", R.string.requestHelp + category +
```

MainActivity.java

```java
                        R.string.problemDiff + difficulty + ".");
                showDialogWithoutNotificationBar("apprequests", params);
            }
    }
    private void showDialogWithoutNotificationBar(String action, Bundle params){
        dialog = new WebDialog.Builder( this, Session.getActiveSession(), action, params).
                setOnCompleteListener( new WebDialog.OnCompleteListener() {
                    @Override
                    public void onComplete(Bundle values, FacebookException error) {
                        if (error != null && !(error instanceof FacebookOperationCanceledException))
{
                            // nothing to do here, except ignore non existent errors in my
perfect code
                        }
                    }
                }).build();

        Window dialog_window = dialog.getWindow();
        dialog_window.setFlags(WindowManager.LayoutParams. FLAG_FULLSCREEN,
                WindowManager.LayoutParams. FLAG_FULLSCREEN );
        dialog.show();
    }
    public void goAchieve(){
        // when the user goes to the about in the Action bar send them to their achievements
        Intent intent = new Intent(this, AchieveActivity. class);
        startActivity(intent);
    }
    public void logOut(View view){
        showFragment( LOGOUT, true);
    }
}
```

```java
package com.opaltech.nowledgenet;

import java.util.Arrays;

/**
 * A simple {@link android.support.v4.app.Fragment} subclass.
 *
 */
public class LoginFragment extends Fragment {

    public LoginFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
            Bundle savedInstanceState) {
        return inflater.inflate(R.layout.login_fragment, container, false);
    }
    public void facebookAuth(View view){
        LoginButton authButton = (LoginButton) view.findViewById(R.id.login_button);
        authButton.setReadPermissions(Arrays.asList("basic_info"));
    }
}
```

```java
package com.opaltech.nowledgenet;

import android.os.Bundle;

/**
 * A simple {@link android.support.v4.app.Fragment} subclass.
 *
 */
public class AuthedFragment extends Fragment {
    public AuthedFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
            Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.authed_fragment, container, false);
        return view;
    }
}
```

```java
package com.opaltech.nowledgenet;

import android.app.Activity;

public class AchieveActivity extends Activity {
    public int score;
    public String strScore;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_achieve);
        // Show the Up button in the action bar.
        setupActionBar();
        // get the score from the preferences file
        SharedPreferences sharedPref = this.getSharedPreferences(
                "savedScore", Context.MODE_PRIVATE);
        score = sharedPref.getInt("saved_score", 0);
        //score = 51;
        strScore = Integer.toString(score);
        // them display the score to the user
        TextView txtPoints = (TextView) findViewById(R.id.txtPoints);
        txtPoints.setText(strScore);
        enableAchievements();
    }
    private void setupActionBar() {
        getActionBar().setDisplayHomeAsUpEnabled(true);


    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.achieve, menu);
        return true;
    }
    public void enableAchievements(){
        // this will change the text back to black in accordance with user score
        // also the textviews are set here to be manipulated for this reason
        TextView linusTitle = (TextView) findViewById(R.id.TextView01);
        TextView linusDescription = (TextView) findViewById(R.id.textView1);
        TextView richardTitle = (TextView) findViewById(R.id.TextView02);
        TextView richardDescription = (TextView) findViewById(R.id.textView2);
        TextView graceTitle = (TextView) findViewById(R.id.TextView03);
        TextView graceDescription = (TextView) findViewById(R.id.textView4);
        // can't forget the buttons
        Button btnLinus = (Button) findViewById(R.id.btnLinus);
        Button btnRichard = (Button) findViewById(R.id.btnRichard);
        Button btnGrace = (Button) findViewById(R.id.btnGrace);
        if(score >= 50){
            linusTitle.setTextColor(Color.parseColor("#000000"));
            linusDescription.setTextColor(Color.parseColor("#000000"));
            richardTitle.setTextColor(Color.parseColor("#000000"));
            richardDescription.setTextColor(Color.parseColor("#000000"));
            graceTitle.setTextColor(Color.parseColor("#000000"));
            graceDescription.setTextColor(Color.parseColor("#000000"));
            btnLinus.setEnabled(true);
            btnRichard.setEnabled(true);
```

```java
                btnGrace.setEnabled( true);
            }
        else if(score >= 20){
            linusTitle.setTextColor(Color. parseColor("#000000"));
            linusDescription.setTextColor(Color. parseColor("#000000"));
            richardTitle.setTextColor(Color. parseColor("#000000"));
            richardDescription.setTextColor(Color. parseColor("#000000"));
            btnLinus.setEnabled( true);
            btnRichard.setEnabled( true);
        }
        if(score >= 10){
            linusTitle.setTextColor(Color. parseColor("#000000"));
            linusDescription.setTextColor(Color. parseColor("#000000"));
            btnLinus.setEnabled( true);
        }
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
        case android.R.id. home:
            NavUtils.navigateUpFromSameTask (this);
            return true;
        case R.id.action_about:
            aboutApp();
            return true;
        }
        return super.onOptionsItemSelected(item);
    }
    public void aboutApp(){
        // when the user goes to the about in the Action bar send them to the about page
        Intent intent = new Intent(this, AboutApp.class);
        startActivity(intent);
    }
    public void playLinus(View view){
        MediaPlayer mediaPlayer = MediaPlayer. create(this, R.raw.strings);
        mediaPlayer.start();
    }
    public void playRichard(View view){
        MediaPlayer mediaPlayer = MediaPlayer. create(this, R.raw.slim_scape);
        mediaPlayer.start();
    }
    public void playGrace(View view){
        MediaPlayer mediaPlayer = MediaPlayer. create(this, R.raw.christmas_tree);
        mediaPlayer.start();
    }


}
```

```java
package com.opaltech.nowledgenet;

import android.app.Activity;

public class AboutApp extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.about_app);
        // Show the Up button in the action bar.
        setupActionBar();
    }

    /**
     * Set up the {@link android.app.ActionBar}.
     */
    private void setupActionBar() {

        getActionBar().setDisplayHomeAsUpEnabled(true);

    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.about_app, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
        case android.R.id.home:
            NavUtils.navigateUpFromSameTask(this);
            return true;
        }
        return super.onOptionsItemSelected(item);
    }
    public void visitInnovation(View view){
        // When button is pressed bring up website for iN using browser
        Uri webpage = Uri.parse("http://innovationcorporation.net/");
        Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);
        startActivity(webIntent);
    }
    public void visitDynPro(View view){
        // Same thing here except with DynPro site
        Uri webpage = Uri.parse("http://burnedtoast.cu.cc/?pk_campaign=NowledgeNet");
        Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);
        startActivity(webIntent);
    }
    public void visitOPAL(View view){
        // I still think we should've went with my idea of a domain
        Uri webpage = Uri.parse("http://opaltech.us");
        Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);
        startActivity(webIntent);
    }
```

```java
    public void bringBaan(View view){
        // huehuehuehue
        Context context = getApplicationContext();
        CharSequence text = "Bring Baan";
        int duration = Toast.LENGTH_SHORT;

        Toast toast = Toast.makeText(context, text, duration);
        toast.show();
    }


}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:gravity="center"
    android:orientation="vertical" >

    <fragment android:name="com.opaltech.nowledgenet.LoginFragment"
        android:id="@+id/loginFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
    <fragment android:name="com.opaltech.nowledgenet.AuthedFragment"
        android:id="@+id/authedFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
    <fragment android:name="com.facebook.widget.UserSettingsFragment"
        android:id="@+id/userSettingsFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</LinearLayout>
```

login_fragment.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:gravity="center"
    android:orientation="vertical" >

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="132dp"
        android:layout_height="134dp"
        android:scaleType="centerCrop"
        android:src="@drawable/facebook_icon"
        tools:ignore="ContentDescription" />

    <TextView
        android:id="@+id/bigtitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/welcome"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:textSize="@dimen/lgTitle" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/loginlabel"
        android:textAppearance="?android:attr/textAppearanceSmall"
        android:textSize="@dimen/s_mTitle" />

    <com.facebook.widget.LoginButton
            android:id="@+id/login_button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:layout_marginTop="30dp"
            android:layout_marginBottom="30dp"
            android:onClick="facebookAuth" />
</LinearLayout>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/ scrollView1"
    android:layout_width= "match_parent"
    android:layout_height= "match_parent"  >

    <LinearLayout
        android:layout_width= "fill_parent"
        android:layout_height= "wrap_content"
        android:gravity= "left"
        android:orientation= "vertical"  >
    <TextView
        android:id= "@+id/text_tech"
        style= "?android:attr/listSeparatorTextViewStyle"
        android:layout_width= "match_parent"
        android:layout_height= "wrap_content"
        android:text= "@string/tech"
        android:textAppearance= "?android:attr/textAppearanceMedium"  />

    <RadioGroup
        android:id= "@+id/radioTech"
        android:layout_width= "wrap_content"
        android:layout_height= "wrap_content"  >

        <RadioButton
            android:id= "@+id/radio_expertTech"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "confidenceSelected"
            android:text= "@string/expert"  />

        <RadioButton
            android:id= "@+id/radio_okayTech"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "confidenceSelected"
            android:text= "@string/okay"  />

        <RadioButton
            android:id= "@+id/radio_helpTech"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "confidenceSelected"
            android:text= "@string/help"  />

        <RadioButton
            android:id= "@+id/radio_tutorTech"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "confidenceSelected"
            android:text= "@string/tutor"  />
    </RadioGroup>
        <TextView
            android:id= "@+id/category"
            style= "?android:attr/listSeparatorTextViewStyle"
            android:layout_width= "match_parent"
```

```xml
        android:layout_height= "wrap_content"
        android:paddingTop= "5dip"
        android:text= "@string/category"
        android:textAppearance= "?android:attr/textAppearanceLarge"  />

    <RadioGroup
        android:id= "@+id/techCategory"
        android:layout_width= "wrap_content"
        android:layout_height= "wrap_content"  >

        <RadioButton
            android:id= "@+id/catSecurity"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:text= "@string/security"  />

        <RadioButton
            android:id= "@+id/catSoftware"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/software"  />

        <RadioButton
            android:id= "@+id/catHardware"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/hardware"  />

        <RadioButton
            android:id= "@+id/catNetwork"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/network"  />

        <RadioButton
            android:id= "@+id/catServer"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/server"  />

        <RadioButton
            android:id= "@+id/catSite"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/sites"  />

        <RadioButton
            android:id= "@+id/catAV"
            android:layout_width= "wrap_content"
            android:layout_height= "wrap_content"
            android:onClick= "categorySelected"
            android:text= "@string/a_v"  />
```

```xml
    </RadioGroup>

    <TextView
        android:id= "@+id/difficulty"
        style= "?android:attr/listSeparatorTextViewStyle"
        android:layout_width= "match_parent"
        android:layout_height= "wrap_content"
        android:paddingTop= "5dip"
        android:text= "@string/difficulty"
        android:textAppearance= "?android:attr/textAppearanceLarge"   />

    <RadioGroup
        android:id= "@+id/radioDifficulty"
        android:layout_width= "wrap_content"
        android:layout_height= "wrap_content"
        android:layout_gravity= "center_horizontal"
        android:orientation= "horizontal"  >

        <RadioButton
            android:id= "@+id/radio_easy"
            android:layout_width= "match_parent"
            android:layout_height= "match_parent"
            android:layout_gravity= "left|start"
            android:onClick= "difficultySelected"
            android:text= "@string/easy"  />

        <RadioButton
            android:id= "@+id/radio_med"
            android:layout_width= "match_parent"
            android:layout_height= "match_parent"
            android:onClick= "difficultySelected"
            android:text= "@string/med"  />

        <RadioButton
            android:id= "@+id/radio_hard"
            android:layout_width= "match_parent"
            android:layout_height= "match_parent"
            android:onClick= "difficultySelected"
            android:text= "@string/hard"  />
    </RadioGroup>

    <Button
        android:id= "@+id/btnPost"
        android:layout_width= "wrap_content"
        android:layout_height= "wrap_content"
        android:layout_gravity= "center_horizontal"
        android:onClick= "postHelp"
        android:text= "@string/post"  />

    <Button
        android:id= "@+id/btnLogout"
        style= "?android:attr/buttonStyleSmall"
        android:layout_width= "wrap_content"
        android:layout_height= "wrap_content"
        android:layout_gravity= "bottom|center"
        android:layout_marginTop= "@dimen/lgTitle"
        android:onClick= "logOut"
```

```xml
            android:text= "@string/logout"  />
        <!-- android:onClick="facebookLogout" -->

    </LinearLayout>

</ScrollView>
```

activity_achieve.xml

```xml
<RelativeLayout xmlns:android= "http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/RelativeLayout1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".AchieveActivity" >

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:src="@drawable/youwon"
        tools:ignore="ContentDescription" />

    <TextView
        android:id="@+id/achievemenTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentRight="true"
        android:layout_alignTop="@+id/imageView1"
        android:text="@string/action_achieve"
        android:textAppearance="?android:attr/textAppearanceLarge" />

    <TextView
        android:id="@+id/as_title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/imageView1"
        android:layout_below="@+id/imageView1"
        android:layout_marginTop="22dp"
        android:text="@string/aaron_schwartz"
        android:textAppearance="?android:attr/textAppearanceMedium" />
    <TextView
        android:id="@+id/TextView01"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/as_description"
        android:layout_below="@+id/as_description"
        android:layout_marginTop="@dimen/smTitle"
        android:text="@string/linus_award"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/gray" />

    <TextView
        android:id="@+id/as_description"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/as_title"
        android:layout_below="@+id/as_title"
        android:text="@string/as_description"
```

```xml
        android:textAppearance= "?android:attr/textAppearanceSmall" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/TextView01"
        android:text="@string/lt_description"
        android:textAppearance="?android:attr/textAppearanceSmall"
        android:textColor="@color/gray" />

    <TextView
        android:id="@+id/TextView02"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_below="@id/textView1"
        android:layout_marginTop="@dimen/smTitle"
        android:text="@string/richard_award"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/gray" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/TextView02"
        android:text="@string/rs_description"
        android:textAppearance="?android:attr/textAppearanceSmall"
        android:textColor="@color/gray" />

    <TextView
        android:id="@+id/TextView03"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView2"
        android:layout_below="@+id/textView2"
        android:layout_marginTop="@dimen/smTitle"
        android:text="@string/grace_award"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/gray" />

    <TextView
        android:id="@+id/txtPoints"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/as_title"
        android:layout_alignRight="@+id/achievemenTitle"
        android:textAppearance="?android:attr/textAppearanceMedium" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/txtPoints"
        android:layout_toLeftOf="@+id/txtPoints"
```

```xml
            android:text="@string/points"
            android:textAppearance="?android:attr/textAppearanceMedium" />

        <TextView
            android:id="@+id/textView4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentLeft="true"
            android:layout_below="@+id/TextView03"
            android:text="@string/gh_hopper"
            android:textAppearance="?android:attr/textAppearanceSmall"
            android:textColor="@color/gray" />

        <Button
            android:id="@+id/btnGrace"
            style="?android:attr/buttonStyleSmall"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignBaseline="@+id/TextView03"
            android:layout_alignBottom="@+id/TextView03"
            android:layout_alignLeft="@+id/btnRichard"
            android:enabled="false"
            android:onClick="playGrace"
            android:text="@string/play" />

        <Button
            android:id="@+id/btnRichard"
            style="?android:attr/buttonStyleSmall"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignBaseline="@+id/TextView02"
            android:layout_alignBottom="@+id/TextView02"
            android:layout_alignRight="@+id/txtPoints"
            android:enabled="false"
            android:onClick="playRichard"
            android:text="@string/play" />

        <Button
            android:id="@+id/btnLinus"
            style="?android:attr/buttonStyleSmall"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignBaseline="@+id/TextView01"
            android:layout_alignBottom="@+id/TextView01"
            android:layout_alignLeft="@+id/btnRichard"
            android:enabled="false"
            android:onClick="playLinus"
            android:text="@string/play" />

</RelativeLayout>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical" >

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:orientation="vertical" >

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="180sp"
        android:layout_height="180sp"
        android:onClick="bringBaan"
        android:src="@drawable/logo_opal"
        tools:ignore="ContentDescription" />

    <TextView
        android:id="@+id/bigtitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/aboutthisapp"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:textSize="@dimen/lgTitle" />

    <TextView
        android:id="@+id/as_description"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/createdby"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textSize="@dimen/mdTitle" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/copyright"
        android:textAppearance="?android:attr/textAppearanceSmall" />
    <Button
        android:id="@+id/btnOPAL"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="visitOPAL"
        android:text="@string/OPALsite" />

    <Button
        android:id="@+id/btnDynPro"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="visitDynPro"
        android:text="@string/visitdynpro" />
```

about_app.xml

```xml
    <Button
        android:id="@+id/btnInnovation"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="visitInnovation"
        android:text="@string/visitinnovation" />

</LinearLayout>
</ScrollView>
```

Menus

XML for each of the Action Bar menus

main.xml

```xml
<menu xmlns:android="http://schemas.android.com/apk/res/android" >

    <item
        android:id="@+id/action_about"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_about"/>
    <item
        android:id="@+id/action_achieve"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_achieve"/>

</menu>
```

about_app.xml

```xml
<menu xmlns:android="http://schemas.android.com/apk/res/android" >

    <item
        android:id="@+id/action_about"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_about"
        android:enabled="false"/>
    <item
        android:id="@+id/action_achieve"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_achieve"/>
</menu>
```

achieve.xml

```xml
<menu xmlns:android="http://schemas.android.com/apk/res/android" >

    <item
        android:id="@+id/action_about"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_about"/>
    <item
        android:id="@+id/action_achieve"
        android:orderInCategory="100"
        android:showAsAction="never"
        android:title="@string/action_achieve"
        android:enabled="false"/>
</menu>
```

Values

Where virtually all the strings are stored, there will be multiple copies of the same named file but they reside in different folders for translation and will be noted clearly

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">NowledgeNet</string>
    <string name="action_about">About</string>
    <string name="expert">I\'m an expert, and I want to help people!</string>
    <string name="okay">I\'m doing okay, and I don\'t need help - but I\'m not confident enough to help</string>
    <string name="help">I need help.</string>
    <string name="tutor">I need a tutor - I just can\'t get the hang of this subject.</string>
    <string name="tech">Technology</string>
    <string name="welcome">Welcome to OPAL!</string>
    <string name="loginlabel">Log in to continue</string>
    <string name="aboutthisapp">About this app</string>
    <string name="createdby">Created by OPAL</string>
    <string name="copyright">Owens, Proctor and Lopez (2013)</string>
    <string name="visitinnovation">Visit Innovation Corporation!</string>
    <string name="visitdynpro">Visit Dynamic Programming!</string>
    <string name="facebooklogin">Log in</string>
    <string name="title_activity_facebook_login">Login to Facebook</string>
    <string name="title_activity_about_app">About This App</string>
    <string name="action_settings">Settings</string>
    <string name="action_achieve">Achievements</string>
    <string name="app_id">257306584421087</string>
    <string name="category">Category</string>
    <string name="security">Security</string>
    <string name="software">Software</string>
    <string name="hardware">Hardware</string>
    <string name="network">Networking</string>
    <string name="server">Servers</string>
    <string name="a_v">Audio/Video</string>
    <string name="sites">Websites</string>
    <string name="post">Post</string>
    <string name="difficulty">Difficulty</string>
    <string name="easy">Easy</string>
    <string name="med">Medium</string>
    <string name="hard">Hard</string>
    <string name="logout">Log out</string>
    <string name="OPALsite">Official Site</string>
    <string name="title_activity_achieve">Achievements</string>
    <string name="aaron_schwartz">Aaron Schwartz award</string>
    <string name="as_description">Open up NowlegeNet</string>
    <string name="linus_award">Linus Torvalds award</string>
    <string name="lt_description">Post to Facebook 10 times</string>
    <string name="richard_award">Richard Stallman award</string>
    <string name="rs_description">Post to Facebook 20 times</string>
    <string name="points">"Points: "</string>
    <string name="grace_award">Grace Hopper award</string>
    <string name="gh_hopper">Post to Facebook 50 times</string>
    <string name="play">Play</string>
    <string name="confidence_error">Select a confidence level</string>
    <string name="category_error">Select a category</string>
    <string name="difficulty_error">Select a difficulty level</string>
    <string name="lvlDiff1">easy</string>
    <string name="lvlDiff2">a challenge</string>
    <string name="lvlDiff3">really hard</string>
    <string name="requestHelp">"I need help in "</string>
    <string name="problemDiff">" and I think my problem is "</string>
```

strings.xml

```
</resources>
```

dimens.xml

```xml
<resources>

    <!-- Default screen margins, per the Android Design guidelines. -->
    <dimen name="activity_horizontal_margin">16dp</dimen>
    <dimen name="activity_vertical_margin">16dp</dimen>
    <dimen name="lgTitle">15pt</dimen>
    <dimen name="mdTitle">10pt</dimen>
    <dimen name="smTitle">5pt</dimen>
    <dimen name="s_mTitle">8pt</dimen>
    <color name="gray">#7c7c7c</color>

</resources>
```

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

    <!--
        Base application theme, dependent on API level. This theme is replaced
        by AppBaseTheme from res/values-vXX/styles.xml on newer devices.
    -->
    <style name="AppBaseTheme" parent="android:Theme.Light">
        <!--
            Theme customizations available in newer API levels can go in
            res/values-vXX/styles.xml, while customizations related to
            backward-compatibility can go here.
        -->
    </style>

    <!-- Application theme. -->
    <style name="AppTheme" parent="AppBaseTheme">
        <!-- All customizations that are NOT specific to a particular API-level can go here. -->
    </style>

    <style name="LoginFormContainer">
        <item name="android:layout_width">match_parent</item>
        <item name="android:layout_height">wrap_content</item>
        <item name="android:padding">16dp</item>
    </style>

</resources>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">NowledgeNet</string>
    <string name="action_about">Acerca de</string>
    <string name="expert">Yo soy un experto y quiero ayudar a los personas!</string>
    <string name="okay">Yo estoy haciendo bien y no necesito ayuda pero no me siento confiado suficiente para ayudar.</string>
    <string name="help">You necesito ayuda.</string>
    <string name="tutor">Yo necesito un tutor - yo no puedo coger de lo que se trata.</string>
    <string name="tech">Tecnologia</string>
    <string name="welcome">Bienvenido a OPAL!</string>
    <string name="loginlabel">Introducete para continuar</string>
    <string name="aboutthisapp">Acerca de esta app</string>
    <string name="createdby">Creado por OPAL</string>
    <string name="copyright">Owens, Proctor y Lopez (2013)</string>
    <string name="visitinnovation">Visitá Innovation Corporation!</string>
    <string name="visitdynpro">Visitá Dynamic Programming!</string>
    <string name="facebooklogin">Iniciar sesión</string>
    <string name="title_activity_facebook_login">Entrar a  Facebook</string>
    <string name="title_activity_about_app">Acerca De Esta App</string>
    <string name="action_achieve">Logros</string>
    <string name="app_id">257306584421087</string>
    <string name="category">Categoría</string>
    <string name="security">Seguridad</string>
    <string name="software">Software</string>
    <string name="hardware">Hardware</string>
    <string name="network">Redes</string>
    <string name="server">Servidores</string>
    <string name="a_v">Sonido/Video</string>
    <string name="sites">Sitios web</string>
    <string name="post">Envie</string>
    <string name="difficulty">Difficultad</string>
    <string name="easy">Facíl</string>
    <string name="med">Mediano</string>
    <string name="hard">Difícil</string>
    <string name="logout">Salirse</string>
    <string name="OPALsite">Sitio Official</string>
    <string name="title_activity_achieve">Logros</string>
    <string name="aaron_schwartz">Aaron Schwartz premio</string>
    <string name="as_description">Ejecutar NowlegeNet</string>
    <string name="linus_award">Linus Torvalds premio</string>
    <string name="lt_description">Envie a Facebook 10 veces</string>
    <string name="richard_award">Richard Stallman premio</string>
    <string name="rs_description">Envie a Facebook 20 veces</string>
    <string name="points">"Puntos: "</string>
    <string name="grace_award">Grace Hopper premio</string>
    <string name="gh_hopper">Envie a Facebook 50 veces</string>
    <string name="play">Juega</string>
    <string name="confidence_error">Seleccionar un nivel de confidencia</string>
    <string name="category_error">Seleccionar un categoría</string>
    <string name="difficulty_error">Seleccione un nivel de dificultad</string>
    <string name="lvlDiff1">facíl</string>
    <string name="lvlDiff2">un reto</string>
    <string name="lvlDiff3">muy difícil</string>
    <string name="requestHelp">"Yo necesito ayuda en "</string>
    <string name="problemDiff">" y yo pienso mí problema es "</string>
</resources>
```

strings.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">NowledgeNet</string>
    <string name="action_about">O</string>
    <string name="expert">Jestem ekspertem, i chce pomóc ludziom!</string>
    <string name="okay">rozumiem to dobrze, nie potrzebuje pomocy - ale nie jestem na tyle
pewny/a aby pomóc innym.</string>
    <string name="help">Potrzebuję pomocy.</string>
    <string name="tutor">Potrzebuje nauczyciela - Ja po prostu nie moge zrozumiec tego
tematu.</string>
    <string name="tech">Technologia</string>
    <string name="welcome">Zapraszamy do OPAL!</string>
    <string name="loginlabel">Zaloguj się, aby kontynuować</string>
    <string name="aboutthisapp">O tej aplikacji</string>
    <string name="createdby">Stworzony przez OPAL</string>
    <string name="copyright">Owens, Proctor i Lopez (2013)</string>
    <string name="visitinnovation">Odwiedź Innovation Corporation!</string>
    <string name="visitdynpro">Odwiedź Dynamic Programming!</string>
    <string name="facebooklogin">Zaloguj się </string>
    <string name="title_activity_facebook_login">Zaloguj się na Facebooka</string>
    <string name="title_activity_about_app">O tej aplikacji</string>
    <string name="action_achieve">Osiągnięcia</string>
    <string name="app_id">257306584421087</string>
    <string name="category">Kategoria</string>
    <string name="security">Bezpieczeństwo</string>
    <string name="software">Oprogramowanie</string>
    <string name="hardware">Sprzet Komputerowy</string>
    <string name="network">Sieć</string>
    <string name="server">Serwery</string>
    <string name="a_v">Audio/Wideo</string>
    <string name="sites">Strony internetowe</string>
    <string name="post">Status</string>
    <string name="difficulty">Trudność</string>
    <string name="easy">Łatwy</string>
    <string name="med">Sredni</string>
    <string name="hard">Ciężko </string>
    <string name="logout">Wyloguj się</string>
    <string name="OPALsite">Strona oficjalna</string>
    <string name="title_activity_achieve">Osiągnięcia</string>
    <string name="aaron_schwartz">Aaron Schwartz nagroda</string>
    <string name="as_description">Otworzyć NowlegeNet</string>
    <string name="linus_award">Linus Torvalds nagroda</string>
    <string name="lt_description">Opublikuj na Facebooka 10 razy</string>
    <string name="richard_award">Richard Stallman nagroda</string>
    <string name="rs_description">Opublikuj na Facebooka 20 razy</string>
    <string name="points">"Punkty: "</string>
    <string name="grace_award">Grace Hopper nagroda</string>
    <string name="gh_hopper">Opublikuj na Facebooka 50 razy</string>
    <string name="play">Odtwórz</string>
    <string name="confidence_error">Wybierz poziom ufności</string>
    <string name="category_error">Wybierz kategorię</string>
    <string name="difficulty_error">Wybierz poziom trudności</string>
    <string name="lvlDiff1">łatwy</string>
    <string name="lvlDiff2">wyzwanie</string>
    <string name="lvlDiff3">naprawdę ciężko</string>
    <string name="requestHelp">"Potrzebuję pomocy w "</string>
    <string name="problemDiff">" i myślę, że mój problem jest "</string>
```

strings.xml

```
</resources>
```