MINOR PROJECT REPORT
(Project Term August-November 2016)

V-Quiz

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Lovely Professional University, Phagwara
August to November 2016

DECLARATION

I hereby declare that the project work entitled ("**V-Quiz**") is an authentic record of my own work carried out as requirements of Major Project for the award of degree of **Diploma in CSE** from Lovely Professional University, Phagwara, under the guidance of (Name of Faculty Mentor), during August to November, 2014).

(Signature of student)
Vishrut Gajjar
11409177

Date: 05-12-2016

This is to certify that the above statement made by the student is correct to the best of my knowledge and belief.

Bhavnesh Sohal , 1604 and Asst.Professor

Faculty Mentor

Acknowledgement

The satisfaction that accompanies that the successful completion of any task would be incomplete without the mention of people whose ceaseless Co-operation made it possible, whose constant guidance and encouragement crown all efforts with success. We are grateful to our project guide "**Mr.Bhavnesh Sohal** And **Mr. Salil Batra** " for the guidance, inspiration and constructive suggestion that helpful us in the preparation of this project.

We are also thankful to my colleagues with whom we have fruitful discussion which have helped us a lot in giving in final shape to the program.

Vishrut Gajjar

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Profile of the Problem

The mobile application based “V-quiz” project is an attempt to simulate the basic concept of Quiz. The system enables user to learn general knowledge, current affairs etc.

The system allows the user to opts new thing the goes around the world. User can learn new things with fun and enjoyment.

There is particular restriction in game to increase the knowledge of user and to have fun and enjoyment.

Time limit and Life line is created to increase level of the game and it create interest and attraction of the user.

Existing System

Existing Software

KBC application

Logo quiz

Current affairs

General quiz

Gk quiz

Disadvantages in Existing System: -

- Timing Consuming
- Possibly of losing data
- Lack of security
- Difficulties to store high score
- Human error will be frequent
- Lack of questions
- Not interactive

What's new in the system to be developed/Scope of work?

APPLICABILITY

- This project solves the problem of the traditional quiz system.
- With certain changes, it can be applicable on any quiz field.
- One of the most benefits in today's life in that quiz can be play from any palace of the world.

ADVANTAGES

- It is easily to learn and adjust to the system.
- This system does not require the user to be highly educated.
- The requirements to tackle this job limited to
- Willing to play long hours
- Data is not easily lost

Problem Analysis

Problem Definition

1. **Quiz type:** - Its defines that quiz is related to which field i.e. general knowledge, current affairs etc.
2. **User type:** - Its defines that user is belong to which filed and searching for which kind of quiz

Project Plan

The plan of this project is to make a webpage which is:->>

- Interpreted and high performance
- Distributed
- Dynamic
- Secure

Software Requirement Analysis

Introduction

Requirements analysis is critical to the success of a development project. Requirements must be documented, actionable, measurable, testable, related to identified business needs or opportunities, and defined to a level of detail sufficient for system design. Requirements can be architectural, structural, behavioral, functional, and non-functional.

General Description

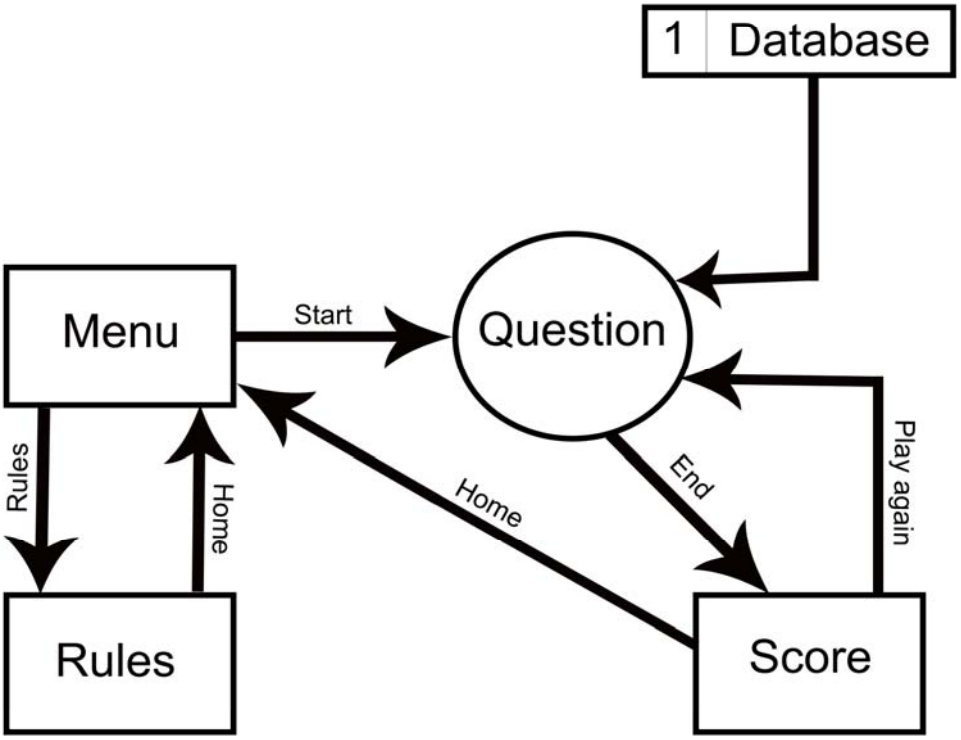
JAVA is a widely-used open source general-purpose scripting language that is especially suited for Application development and can be embedded into Android.

Specific Requirements

- System
  - Android Studio
  - Sql Database
  - Photo Editor
  - Windows 10

- Hardware
  - Minimum:2.0 GHz CPU,1024 MB RAM, 1024*768 display, 5400 RPM Hard Disk
  - Recommended:2.2 GHz or Higher CPU, 2024 MB or more RAM, 1280*1024 display, 7200 RPM or Higher Hard disk.

DFD FOR REPRESENT SYSTEM/FLOWCHATRS



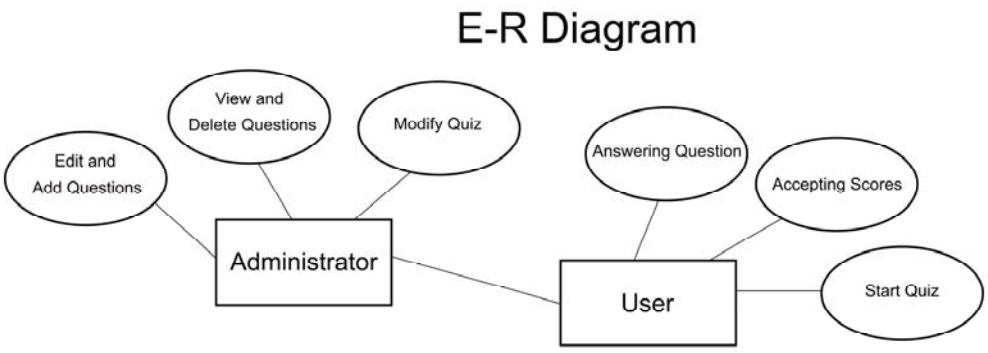


Table Design

Question Bank

Key id int(11) pk	Key_ques Varchar(20)	Key_answer Varchar(20)	Key_optionA Varchar(20)	Key_optionB Varchar(20)	Key_optionC Varchar(20)	Key_optionD Varchar(20)

Code Design Implementation

Code Of Each Page

Activity_main.java

```
package com.example.vishrut.v_quiz;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

Question.java

```
package com.example.vishrut.v_quiz;

import android.app.Activity;
public class Question extends MainActivity {
    private int ID;
    private String QUESTION;
    private String OPTA;
    private String OPTB;
    private String OPTC;
    private String OPTD;
    private String ANSWER;
    public Question() {
        ID = 0;
        QUESTION = "";
        OPTA = "";
        OPTB = "";
        OPTC = "";
        OPTD ="";
        ANSWER = "";
    }
    public Question(String qUESTION, String oPTA, String oPTB, String oPTC, String
oPTD,
                    String aNSWER) {
        QUESTION = qUESTION;
        OPTA = oPTA;
        OPTB = oPTB;
        OPTC = oPTC;
        OPTD=oPTD;
        ANSWER = aNSWER;
```

```
}
public int getID() {
   return ID;
}
public String getQUESTION() {
   return QUESTION;       }
public String getOPTA() {
   return OPTA;       }
public String getOPTB() {
   return OPTB;       }
public String getOPTC() {
   return OPTC;       }
public String getOPTD() {
   return OPTD;
}
public String getANSWER() {

   return ANSWER;       }
public void setID(int id) {

   ID = id;}       public void setQUESTION(String qUESTION) {

   QUESTION = qUESTION;       }
public void setOPTA(String oPTA) {

   OPTA = oPTA;
}       public void setOPTB(String oPTB) {

   OPTB = oPTB;       }
public void setOPTC(String oPTC) {
   OPTC = oPTC;

}
public void setOPTD(String oPTD)
{
   OPTD=oPTD;
}
public void setANSWER(String aNSWER) {

   ANSWER = aNSWER;}}
```

QuestionActivity.java

```
package com.example.vishrut.v_quiz;

import java.util.ArrayList;
import java.util.List;

import java.util.Random;
import java.util.Timer;

import android.widget.Toast;
import java.util.LinkedList;

import java.util.Collections;
import java.util.Collection;
import java.util.concurrent.TimeUnit;

import android.annotation.SuppressLint;

import android.annotation.TargetApi;

import android.app.Activity;

import android.content.Intent;

import android.graphics.Typeface;

import android.media.MediaPlayer;

import android.os.Build;

import android.os.Bundle;

import android.os.CountDownTimer;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;


public class QuestionActivity extends Activity {

    List<Question> quesList;
    int score = 0,count=5;
    int qid =0;
```

```
CounterClass timer = new CounterClass(60000, 1000);
 Question currentQ;

 TextView txtQuestion, times, scored;

 Button button1, button2, button3,button4;
protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);


    QuizHelper db = new QuizHelper(this);  // my question bank class

    quesList = db.getAllQuestions();  // this will fetch all quetonall questions

    Collections.shuffle(quesList);


    currentQ = quesList.get(qid);// the current question
    txtQuestion = (TextView) findViewById(R.id.txtQuestion);

    // the textview in which the question will be displayed
    // the three buttons,
    // the idea is to set the text of three buttons with the options from question bank

    button1 = (Button) findViewById(R.id.button1);
    button2 = (Button) findViewById(R.id.button2);
    button3 = (Button) findViewById(R.id.button3);
    button4 = (Button) findViewById(R.id.button4);
    // the textview in which score will be displayed
   scored = (TextView) findViewById(R.id.score);
    // the timer
    times = (TextView) findViewById(R.id.timers);
    // method which will set the things up for our game
    setQuestionView();
    times.setText("00:02:00");

    // A timer of 60 seconds to play for, with an interval of 1 second (1000 milliseconds)

    // CounterClass timer = new CounterClass(30000, 1000);

    timer.start();

    // button click listeners
    button1.setOnClickListener(new View.OnClickListener() {

     public void onClick(View v) {
```

```
            // passing the button text to other method

            // to check whether the anser is correct or not

            // same for all three buttons

            getAnswer(button1.getText().toString());

        }

    });


    button2.setOnClickListener(new View.OnClickListener() {
        @Override

        public void onClick(View v) {

            getAnswer(button2.getText().toString());

        }

    });


    button3.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {
            getAnswer(button3.getText().toString());

        }

    });
    button4.setOnClickListener(new View.OnClickListener() {
        @Override

        public void onClick(View v) {
            getAnswer(button4.getText().toString());
        }
    });
}

public void getAnswer(String AnswerString) {

    if (currentQ.getANSWER().equals(AnswerString)) {
        // if conditions matches increase the int (score) by 1
```

```
        // and set the text of the score view
        Toast.makeText(getBaseContext() ,"Correct",Toast.LENGTH_SHORT ).show();

        score++;

        // scored.setText("Score : " + score);

    }
    else {
        Toast.makeText(getBaseContext(), "Incorrect", Toast.LENGTH_SHORT).show();

        count--;
        scored.setText("Life : " + count);}
    if (count > 0&& qid<21) {



        // if questions are not over then do this

        currentQ = quesList.get(qid);

        setQuestionView();

    } else {

        // if over do this

        Intent intent = new Intent(QuestionActivity.this,

                ResultActivity.class);

        Bundle b = new Bundle();

        b.putInt("score", score); // Your score

        intent.putExtras(b); // Put your score to your next

        startActivity(intent);

        finish();
        timer.cancel();

        score=0;
        count=5;
    }
}



@TargetApi(Build.VERSION_CODES.GINGERBREAD)
```

```
@SuppressLint("NewApi")
public class CounterClass extends CountDownTimer {


    public CounterClass(long millisInFuture, long countDownInterval) {
        super(millisInFuture, countDownInterval);
        // TODO Auto-generated constructor stub
    }


    @Override
    public void onFinish() {
        times.setText("Time is up");
        Intent intent = new Intent(QuestionActivity.this,
                ResultActivity.class);


        // passing the int value
        Bundle b = new Bundle();
        b.putInt("score", score); // Your score
        intent.putExtras(b); // Put your score to your next
        startActivity(intent);
        finish();
    }


    @Override
    public void onTick(long millisUntilFinished) {
        // TODO Auto-generated method stub
```

```
        long millis = millisUntilFinished;
        String hms =String.format(
                "%02d:%02d:%02d",
                TimeUnit.MILLISECONDS.toHours(millis),
                TimeUnit.MILLISECONDS.toMinutes(millis)
                        - TimeUnit.HOURS.toMinutes(TimeUnit.MILLISECONDS
                        .toHours(millis)),
                TimeUnit.MILLISECONDS.toSeconds(millis)
                        - TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS
                        .toMinutes(millis)));
        System.out.println(hms);
        times.setText(hms);
    }

}

private void setQuestionView() {

    // the method which will put all things together
    txtQuestion.setText(currentQ.getQUESTION());
    button1.setText(currentQ.getOPTA());
    button2.setText(currentQ.getOPTB());
    button3.setText(currentQ.getOPTC());
    button4.setText(currentQ.getOPTD());
    qid++;
}}
```

QuestionHelper.java

```
package com.example.vishrut.v_quiz;

import java.util.ArrayList;

import java.util.List;
import java.util.Random;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;


import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;


public class QuizHelper extends SQLiteOpenHelper {

    private static final int DATABASE_VERSION = 2;

    // Database Name

    private static final String DATABASE_NAME = "Vishrut";

    // tasks table name

    private static final String TABLE_QUEST = "quest";

    // tasks Table Columns names

    private static final String KEY_ID = "qid";

    private static final String KEY_QUES = "question";

    private static final String KEY_ANSWER = "answer"; // correct option

    private static final String KEY_OPTA = "opta"; // option a

    private static final String KEY_OPTB = "optb"; // option b

    private static final String KEY_OPTC = "optc"; // option c

    private static final String KEY_OPTD ="optd";//option d
```

```
    private SQLiteDatabase dbase;


    public QuizHelper(Context context) {

        super(context, DATABASE_NAME, null,2);

    }
    @Override

    public void onCreate(SQLiteDatabase db) {

        dbase = db;

        String sql = "CREATE TABLE IF NOT EXISTS " + TABLE_QUEST + " ( "

                + KEY_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, " +
KEY_QUES

                + " TEXT, " + KEY_ANSWER + " TEXT, " + KEY_OPTA + " TEXT, "

                + KEY_OPTB + " TEXT, " + KEY_OPTC + " TEXT, " + KEY_OPTD + "
TEXT)";

        db.execSQL(sql);

        addQuestion();

        // db.close();

    }

    private void addQuestion() {

        Question q1 = new Question("Grand Central Terminal, Park Avenue, New York is
the world's", "largest railway station", "highest railway station", "longest railway
station","None of above" ,"largest railway station");

        this.addQuestion(q1);

        Question q2 = new Question("Garampani sanctuary is located at", "Junagarh,
Gujarat", "Diphu, Assam", "Kohima, Nagaland", "Gangtok, Sikkim","Diphu,
Assam");

        this.addQuestion(q2);

        Question q3 = new Question("Galileo was an Italian astronomer who", "developed
the telescope", "discovered four satellites of Jupiter", "discovered that the movement of
pendulum produces a regular time measurement","All of the above", "All of the
```

```
above");

        this.addQuestion(q3);

        Question q4 = new Question("Brass gets discoloured in air because of the presence
of which of the following gases in air?", "Oxygen", "Hydrogen sulphide", "Carbon
dioxide","Nitrogen", "Hydrogen sulphide");

        this.addQuestion(q4);

        Question q5 = new Question("In which of the following regions, maize is used as
staple food ?", "Western Europe", "Russia", "Middle Africa","South-East Asia",
"Middle Africa");

        this.addQuestion(q5);

        Question q6 = new Question("Four Corners Monument is located in which of the
following countries", "United States", "Canada", "China","Mexico", "United States");

        this.addQuestion(q6);

        Question q7 = new Question("Which of the following rivers carries maximum
quantity of water into the sea?" , "Nile", "Amazon", "Mississippi
Missouri","Thames", "Amazon");

        this.addQuestion(q7);

        Question q8 = new Question("Which state was divided into Maharashtra and
Gujarat in 1960?", "Bombay", "Madras", "Rajasthan","Hyderabad", "Bombay");

        this.addQuestion(q8);

        Question q9 = new Question("New Delhi is the capital of India. Which sacred river
flows through the Indian capital city?", "Ganga", "Yamuna",
"Saraswati","Bhramputra", "Yamuna");

        this.addQuestion(q9);

        Question q10 = new Question("The _____ Desert is the largest desert of India.",
"Ladkh", "Thar", "Lahul","Kutch", "Thar");

        this.addQuestion(q10);

        Question q11 = new Question("A mineral is a natural crystalline solid formed by
geological processes. Which is not an example of a mineral?", "Diamond", "WooD",
"Gold","Platinum", "WooD");

        this.addQuestion(q11);

        Question q12 = new Question("Which among the following is the World's largest
```

```
Wetland System?" ,"Camargue (France)","Okavango (Botswana)","Everglades (USA)","Pantanal (South America)","Pantanal (South America)");

        this.addQuestion(q12);

        Question q13 = new Question("Which of the following is considered as the secondary pollutant?", "Ozone", "Benzene", "Sulphur dioxide", "Carbon monoxide","Ozone");

        this.addQuestion(q13);

        Question q14 = new Question("Which technological giant has launched its first Cybersecurity Engagement Center (CSEC) in India?", "Infosys", "Wipro", "Reliance","Microsoft", "Microsoft");

        this.addQuestion(q14);
        Question q15 = new Question("Who is the Founder of V-Quiz","Unity","Gameloft","Vishrut","Electronic Arts(EA)","Vishrut");
        this.addQuestion(q15);
        Question q16 = new Question("Carlos Alberto, who died recently, was a legendary footballer from which country?", "Germany", "Brazil", "Itlay", "France","Brazil");

        this.addQuestion(q16);

        Question q17 = new Question("What is the India's rank in the World Bank's Ease of doing business index for 2017?", "130TH", "117TH", "155TH","80TH", "130TH");

        this.addQuestion(q1);

        Question q18 = new Question("The World Polio Day is observed on which date?", "Octobor 23", "Octobor 24", "Octobor 25","Octobor 26", "Octobor 24");

        this.addQuestion(q18);

        Question q19 = new Question("Varun Singh Bhati, who won bronze at 2016 Rio Paralympic Games, is associated with which sports?", "Shot Put", "High Jump", "Badminton","Javelin Throw", "High Jump");

        this.addQuestion(q19);

        Question q20 = new Question("Which of the following will be the official mascot of FIFA 2018 World Cup?", "Zakumi", "Willie", "Zabivaka","Gauchito", "Zabivaka");

        this.addQuestion(q20);

        Question q21 = new Question("Which country has won the 2016 Kabaddi World Cup?" , "Sri Lanka", "Iran", "India","China", "India");

        this.addQuestion(q21);
```

```
        Question q22 = new Question("India’s first railway university will be set up in
which city?", "Bengaluru", "Vadodara", "Varanasi","Kochi", "Vadodara");

        this.addQuestion(q22);

    }

    @Override

    public void onUpgrade(SQLiteDatabase db, int oldV, int newV) {

        // Drop older table if existed

        db.execSQL("DROP TABLE IF EXISTS " + TABLE_QUEST);

        // Create tables again

        onCreate(db);

    }
    // Adding new question

    public void addQuestion(Question quest) {

        // SQLiteDatabase db = this.getWritableDatabase();

        ContentValues values = new ContentValues();

        values.put(KEY_QUES, quest.getQUESTION());

        values.put(KEY_ANSWER, quest.getANSWER());
        values.put(KEY_OPTA, quest.getOPTA());

        values.put(KEY_OPTB, quest.getOPTB());

        values.put(KEY_OPTC, quest.getOPTC());
        values.put(KEY_OPTD, quest.getOPTD());


        // Inserting Row

        dbase.insert(TABLE_QUEST, null, values);

    }
    public List<Question> getAllQuestions() {

        List<Question> quesList = new ArrayList<Question>();

        // Select All Query
```

```
        String selectQuery = "SELECT  * FROM " + TABLE_QUEST;

        dbase = this.getReadableDatabase();

        Cursor cursor = dbase.rawQuery(selectQuery, null);


        // looping through all rows and adding to list

        if (cursor.moveToFirst()) {


            do {

                Question quest = new Question();

                quest.setID(cursor.getInt(0));

                quest.setQUESTION(cursor.getString(1));

                quest.setANSWER(cursor.getString(2));

                quest.setOPTA(cursor.getString(3));

                quest.setOPTB(cursor.getString(4));

                quest.setOPTC(cursor.getString(5));
                quest.setOPTD(cursor.getString(6));


                quesList.add(quest);

            } while (cursor.moveToNext());

        }

        // return quest list

        return quesList;

    }

}
```

ResultActivity.java

```
package com.example.vishrut.v_quiz;
import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;


import android.view.View;

import android.widget.TextView;



public class ResultActivity extends Activity {
   protected void onCreate(Bundle savedInstanceState) {

      super.onCreate(savedInstanceState);

      setContentView(R.layout.activity_result);


      TextView textResult = (TextView) findViewById(R.id.textResult);


      Bundle b = getIntent().getExtras();
      int score = b.getInt("score");



      textResult.setText("Your score is " + " " + score + ". Thanks for playing my
game.");
   }
   public void playagain(View o) {


      Intent intent = new Intent(this, QuestionActivity.class);
      startActivity(intent);
   }
   public void stm (View i ){

      Intent intent = new Intent(ResultActivity.this,

            start.class);

      startActivity(intent)

}}
```

Rules.java

```
package com.example.vishrut.v_quiz;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class rules extends Activity{
   protected void onCreate(Bundle savedInstanceState) {

      super.onCreate(savedInstanceState);
      setContentView(R.layout.rules);}

   public void st (View i ){

      Intent intent = new Intent(rules.this,

            start.class);

      startActivity(intent);
   }}
```

Start.java

```
package com.example.vishrut.v_quiz;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class start extends Activity {
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);

      setContentView(R.layout.activity_startup);}

   public void playagain(View o) {

      Intent intent = new Intent(this, QuestionActivity.class);

      startActivity(intent);}
   public void ruless (View i ){

      Intent intent = new Intent(start.this,  rules.class);

      startActivity(intent);

}}
```

Bibliography

Wikipedia page for Android:http://en.wikipedia.org/wiki/Android
https://**developer**.**android**.com/index.htm
Further reading:
"The Origins and Development of Android “
https://**developer**.**android**.com/index.htm