Wala Kalema

Cs102 Project Spring 2016

Have Fun, Create Memories

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Overview

Wala Kalema is an andriod game that was inspired by the Arabic party game wala kalema, where one player tries to act a movie, a song or a celebrity name, and the other player tries to guess the name. The purpose of our app is to simulate this game by replacing papers with phone's screen, timekeepers with auto-timer, and memories with videos. In addition to other great features to make it more interactive, and fancier. To have fun and create memories !

Goals

Creating a user friendly free digital game, that interacts with the player's movements, integrated with our Arabic culture to making social gathering much more fun!

Developing a green solution that helps the environment by limiting paper usage.

Having fun and creating memories by creating funny videos.

Aims and Scope

- Implementing an android game that integrates hardware sensors such as the accelerometer and gyroscope, the data collected from the sensors are analyzed and taken as a user's input.
- Integrating the app with the camera, to make the game more fun while playing it. The camera will record the user while interacting with the app, and giving the user the ability to save and watch it later.
- Collecting data that enables us to implement the application and put it to use, since our app is data based this is a core task .
- Designing The GUI, themes, colors to give the application a more appealing look and make it suitable in the game industry.
- Adding sound effects to create a more interactive environment between the user and the application by sending signals to notify the players when winning or losing.

Class Hierarchies

https://drive.google.com/file/d/0B5BvulYR6UFuaW9NYzFaamJpWE0/view?usp=sharing

UML Diagram

https://drive.google.com/file/d/0B5BvulYR6UFueHFSTjFEYi1LYlE/view?usp=sharing

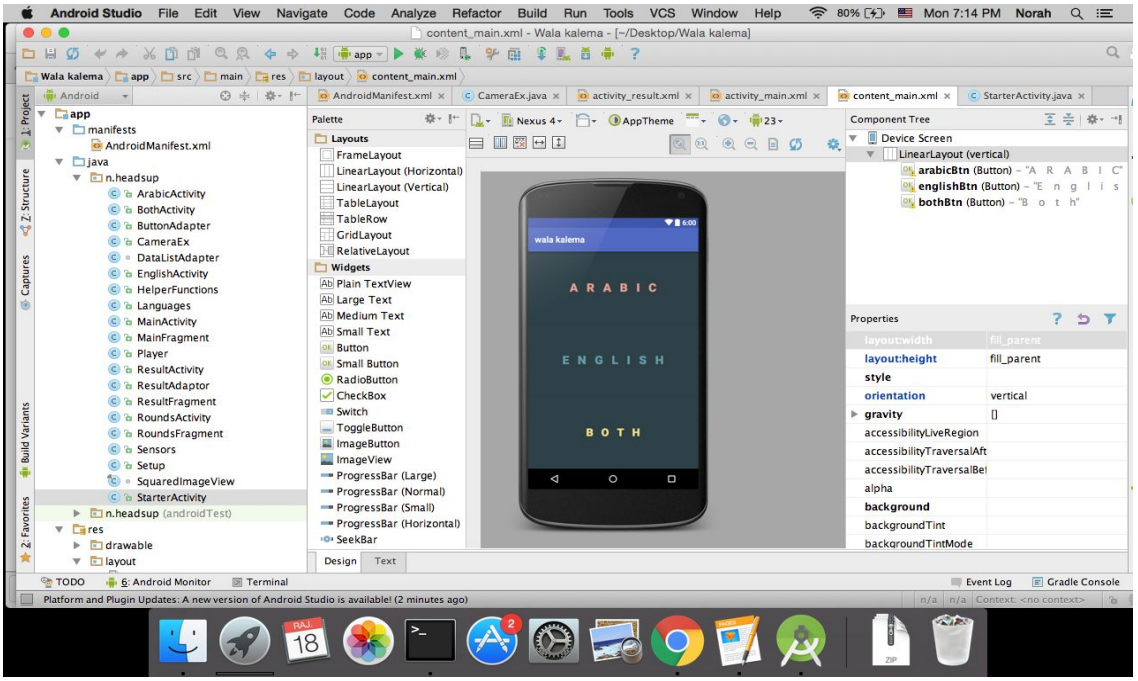
OOP Used Concept

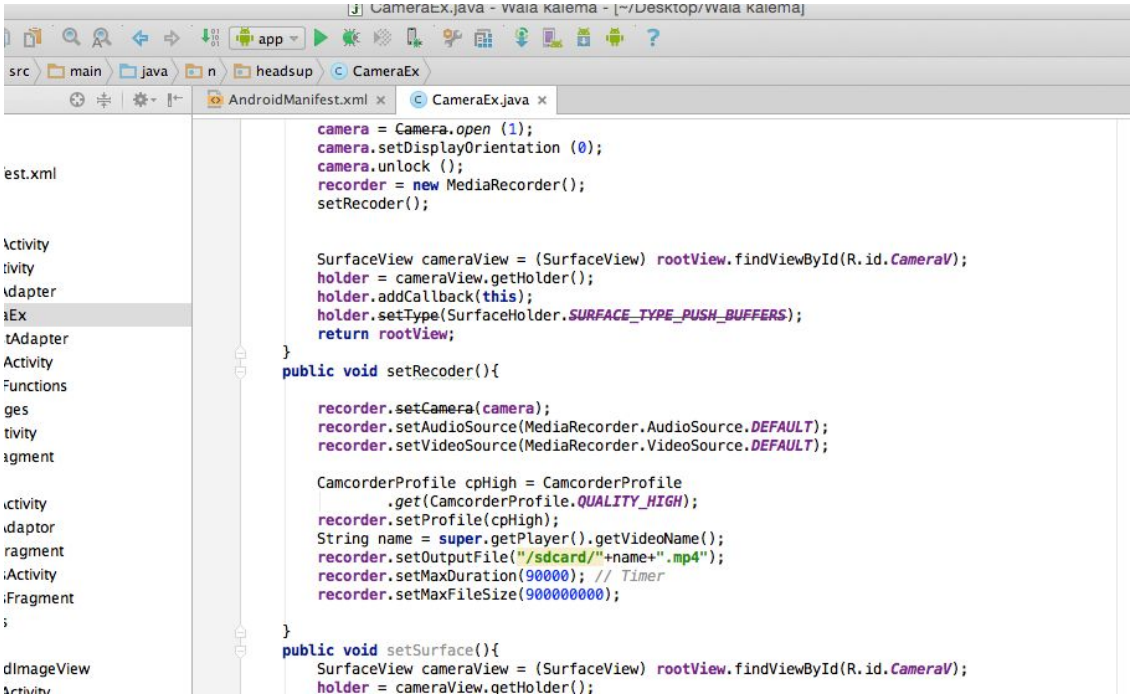
Constructors, private and protected instance variables and methods, statics variables method, multilevel Inheritance, hierarchy Inheritance, multiple inheritance Abstract classes and Interface.

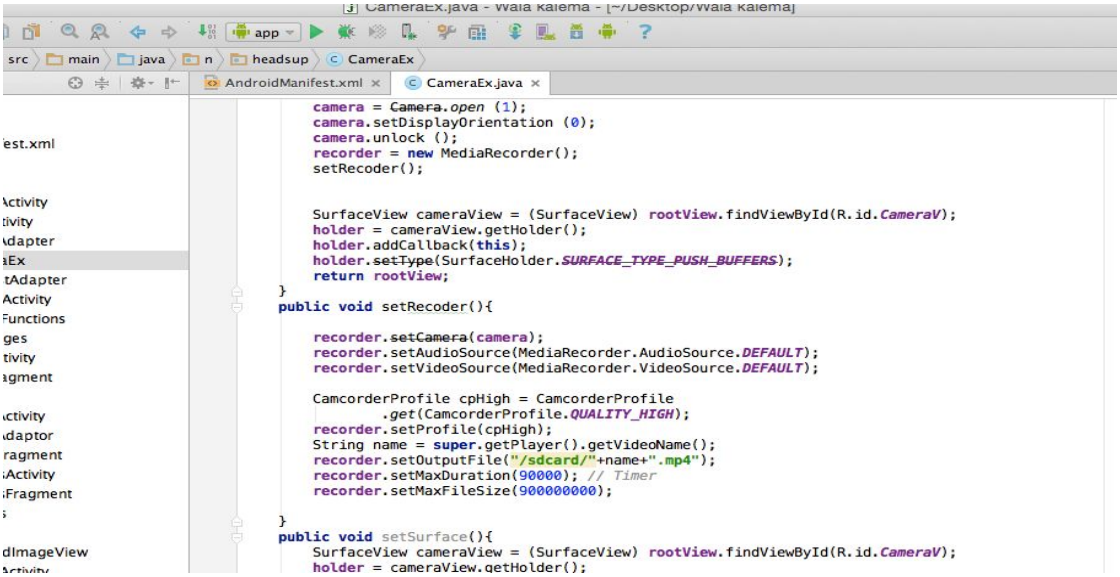
Code

https://drive.google.com/folderview?id=0B5BvulYR6UFuRUNydHFpalJvVGs&usp=sharing

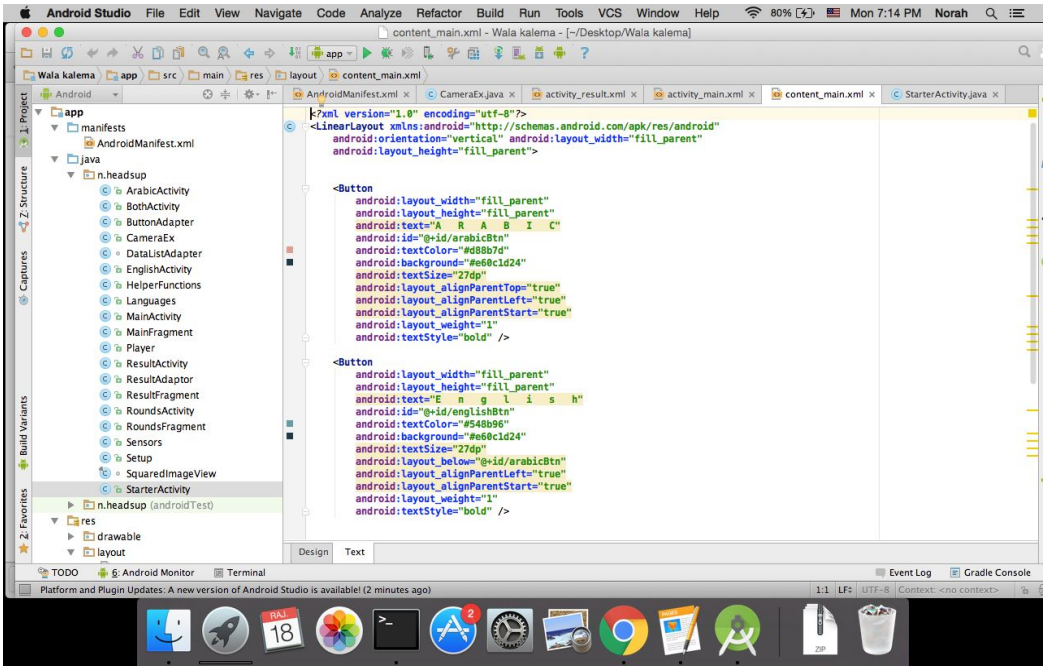
Code Snippet Of The Used Concept:





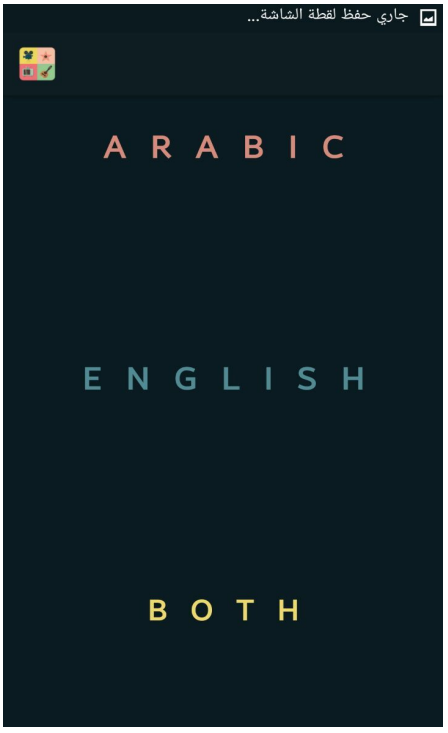


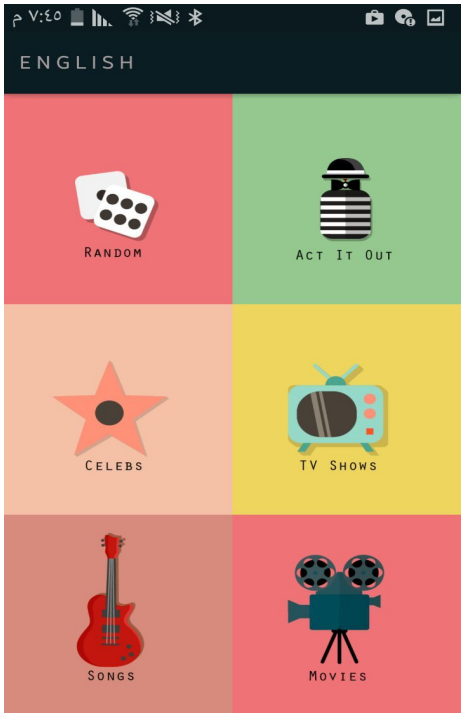
```
camera = Camera.open (1);
camera.setDisplayOrientation (0);
camera.unlock ();
recorder = new MediaRecorder();
setRecoder();


SurfaceView cameraView = (SurfaceView) rootView.findViewById(R.id.CameraV);
holder = cameraView.getHolder();
holder.addCallback(this);
holder.setType(SurfaceHolder.SURFACE_TYPE_PUSH_BUFFERS);
return rootView;
}
public void setRecoder(){

recorder.setCamera(camera);
recorder.setAudioSource(MediaRecorder.AudioSource.DEFAULT);
recorder.setVideoSource(MediaRecorder.VideoSource.DEFAULT);

CamcorderProfile cpHigh = CamcorderProfile
        .get(CamcorderProfile.QUALITY_HIGH);
recorder.setProfile(cpHigh);
String name = super.getPlayer().getVideoName();
recorder.setOutputFile("/sdcard/"+name+".mp4");
recorder.setMaxDuration(90000); // Timer
recorder.setMaxFileSize(900000000);

}
public void setSurface(){
SurfaceView cameraView = (SurfaceView) rootView.findViewById(R.id.CameraV);
holder = cameraView.getHolder();
```



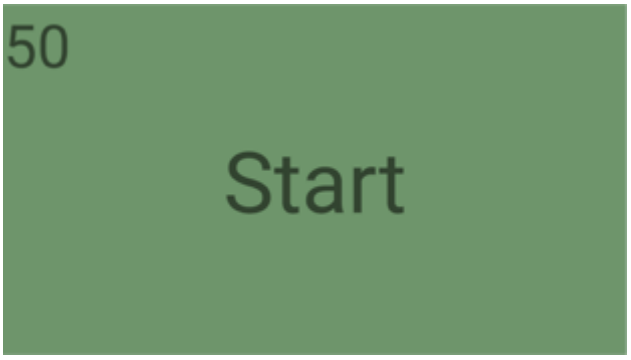
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="fill_parent"
    android:layout_height="fill_parent">


    <Button
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:text="A  R  A  B  I  C"
        android:id="@+id/arabicBtn"
        android:textColor="#d88b7d"
        android:background="#e60c1d24"
        android:textSize="27dp"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_weight="1"
        android:textStyle="bold" />

    <Button
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:text="E  n  g  l  i  s  h"
        android:id="@+id/englishBtn"
        android:textColor="#548b96"
        android:background="#e60c1d24"
        android:textSize="27dp"
        android:layout_below="@+id/arabicBtn"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_weight="1"
        android:textStyle="bold" />
```

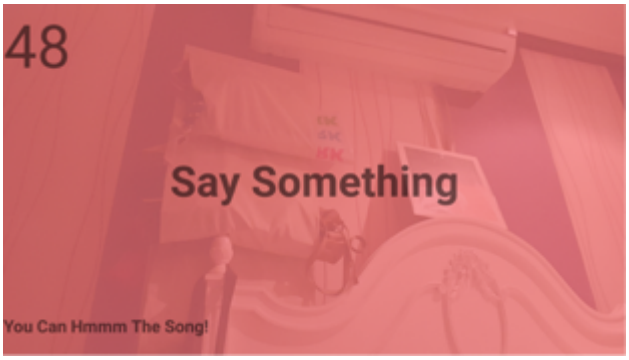
Testing:

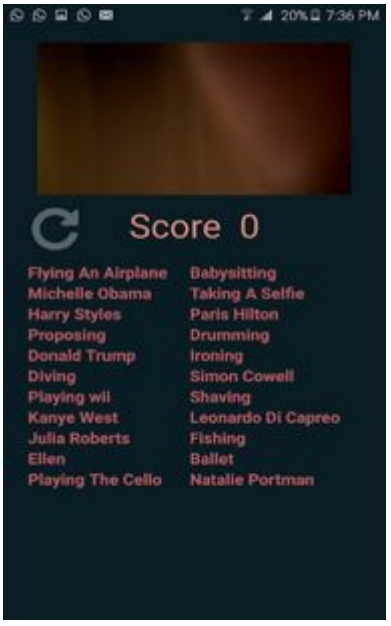



ENGLISH
RANDOM
ACT IT OUT
CELEBS
TV SHOWS
SONGS
MOVIES

52
2


50
Start


48
Say Something
You Can Hmmm The Song!


Score 0
Flying An Airplane
Michelle Obama
Harry Styles
Proposing
Donald Trump
Diving
Playing wii
Kanye West
Julia Roberts
Ellen
Playing The Cello
Babysitting
Taking A Selfie
Paris Hilton
Drumming
Ironing
Simon Cowell
Shaving
Leonardo Di Capreo
Fishing
Ballet
Natalie Portman