Mobile Device Application Development (140-440)

Home Work 1

Application: "Spell Your Name"

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IT-3

1. Descriptions

User input their first name and last name then application will show each character in their name after is clicked.

Note: first name and last name only support a-z or A-Z. The other character will show "?" instead.

2. Print Screen







3. Source Code

```
local widget = require("widget")
local f name, l name, f name text, l name text, title
local cx, cy
local alphabetTimer
playing = false
len = 0
pos = 0
addAlphabet = {}
local function setAsDefault(event)
    --remove object
    pos = 0
    for i=1 , #addAlphabet do
        if(addAlphabet[i])then
            addAlphabet[i]:removeSelf()
            addAlphabet[i]=nil
        end
    end
    --remove trigger
    if(alphabetTimer) then
        timer.cancel(alphabetTimer)
        alphabetTimer = nil
    end
    --textfield defaul properties
    transition.to(f name, {time=700,x=cx})
    transition.to(l name, {time=700,x=cx})
    --text defaul properties
    transition.to(f name text, {time=500,y=cy-170})
    transition.to(l name text, {time=500,y=cy-100})
    transition.to(title, {time=700,x=cx})
    f name text.text = "First Name :"
    l name text.text = "Last Name :"
    --button defaul position
    transition.to(goButton, {time=500,y=cy+30})
    goButton.rotation = 0
end
```

```
local function changeItemsProperties(event)
    transition.to(goButton, {time=500,y=cy+4*cy/5})
    goButton.rotation = 180
    transition.to(f name, {time=700,x=cx*3})
    transition.to(l name, \{time=700, x=-cx*3\})
    transition.to(title, {time=700,x=cx*3})
    transition.to(f name text, {time=500,y=f name text.y-30})
    transition.to(l name text, {time=700,y=1 name text.y-60})
    f name text.text = f name.text
    l name text.text = l name.text
end
local function showAlphabet(event)
    if (playing) then
        if(pos >= len) then
            playing = false
            setAsDefault()
        else
            transition.to(addAlphabet[pos+1], {time = 700, x = -cx*2})
            pos = pos + 1
            if (pos < len) then
                 transition.to(addAlphabet[pos+1], {time = 300, x = cx})
            end
        end
    end
end
local function spellName(event)
    --create alphabet object equeal to name length
    addAlphabet = {}
    name = string.lower(" "..f name.text..l name.text.." ")
    len = string.len(name)
    for i=1, len do
        if(i==1 \text{ or } i==len) then
            table.insert(addAlphabet,
display.newImage("img/start end.png", cx*3,cy))
        elseif (string.byte(name,i)<97 or 122<string.byte(name,i))then</pre>
            table.insert(addAlphabet,
display.newImage("img/alphabet/error.png", cx*3,cy))
            table.insert(addAlphabet,
display.newImage("img/alphabet/"..name:sub(i,i)..".png", cx*3,cy))
```

```
end
    end
    --show alphabet
    addAlphabet[1].x = cx
    alphabetTimer = timer.performWithDelay(500, showAlphabet, 0)
end
local function playButtonEventHandler(event)
    if(event.phase == "ended") then
        if (not playing) then
            playing = true
            changeItemsProperties()
            spellName()
        else
            playing = false
            setAsDefault()
        end
    end
end
display.setDefault("background", 0.5, 0.5, 0.5)
cx = display.contentCenterX
cy = display.contentCenterY
--first name
f name text = display.newText("First Name :",cx,cy-170,"Arial",20)
f name = native.newTextField(cx,cy-140,180,30)
f name.align = "center"
--last name
l name text = display.newText("Last Name :",cx,cy-100,"Arial",20)
1 name = native.newTextField(cx,cy-70,180,30)
l name.align = "center"
--button
goButton = display.newImage("img/play.png",cx,cy+30)
goButton:addEventListener("touch",playButtonEventHandler)
--title
title = display.newText("Spell Your Name", cx, cy+2*cy/3, "Arial", 30)
```