



Assignment4

Make a stopwatch app using thread and handler

-
- Due: 6/07 Monday (23:59)

Description of app



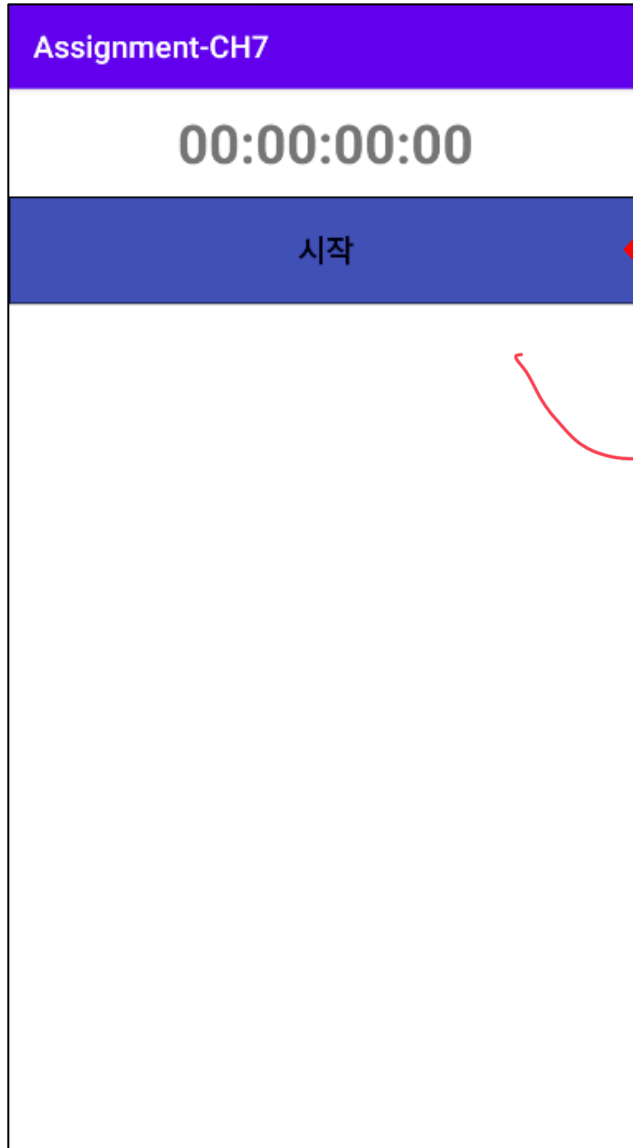
The background color of Buttons should be changed according to the click event.

Button UI Color

Normal: #3F51B5

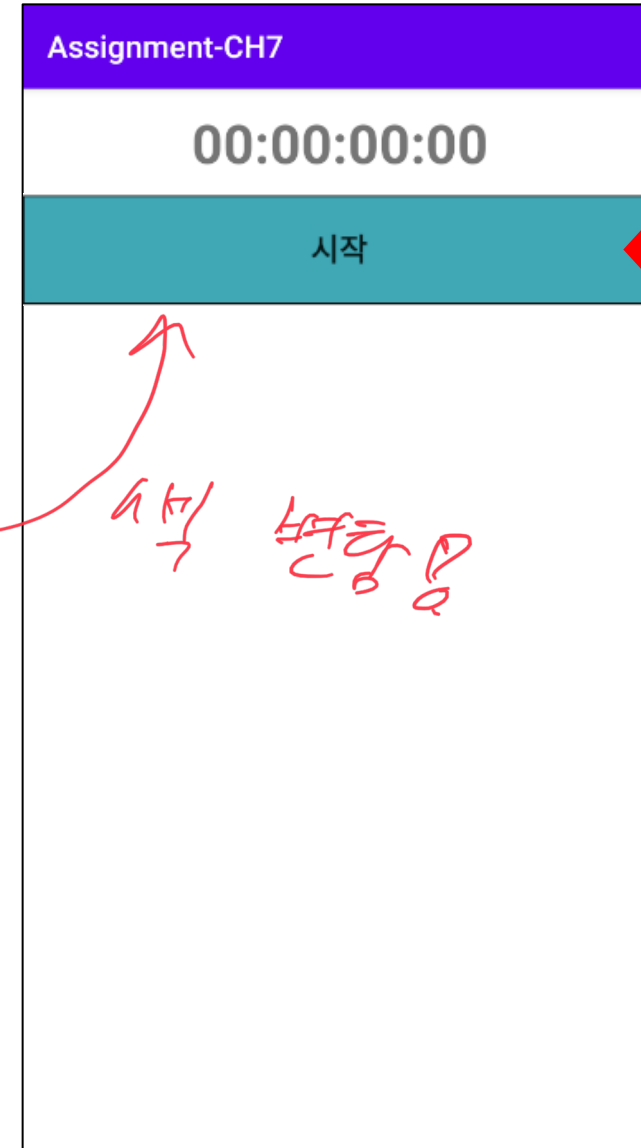
Clicked: #40A7B5

Border: #000000

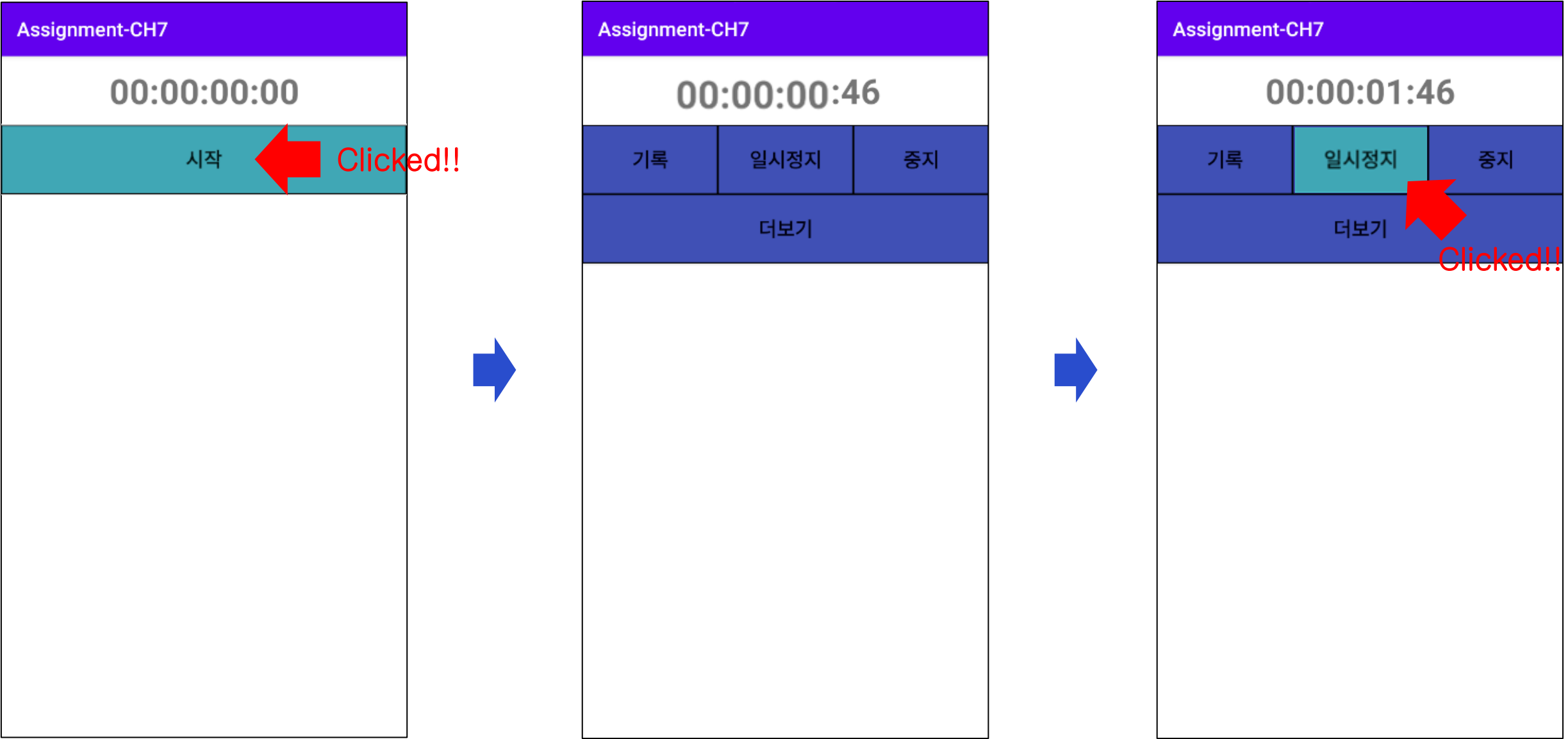


Normal Color!!

Animation
클릭할 때 색 변경



Clicked Color!!



Button UI Color

- Normal: #3F51B5
- Clicked: #40A7B5
- Border: #000000



Assignment-CH7		
00:00:01:46		
기록	일시정지	중지
더보기		



Assignment-CH7		
00:00:01:46		
기록	다시시작	중지
더보기		



Clicked!!



Assignment-CH7		
00:00:16:37		
기록	일시정지	중지
더보기		

Button UI Color

Normal: #3F51B5
Clicked: #40A7B5
Border: #000000



Assignment-CH7		
00:00:16:78		
기록	일시정지	중지
더보기		



Clicked!!



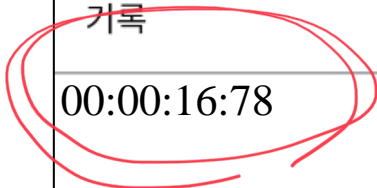
Assignment-CH7		
00:00:17:45		
기록	다시시작	중지
더보기		



Clicked!!



Assignment-CH7
돌아가기
기록
00:00:16:78



Button UI Color

Normal: #3F51B5
Clicked: #40A7B5
Border: #000000



Assignment-CH7	
돌아가기	
기록	
00:00:16:78	



Assignment-CH7		
00:00:17:78		
기록	일시정지	중지
더보기		



Assignment-CH7		
00:00:18:44		
기록	다시시작	중지
더보기		



Assignment-CH7	
돌아가기	
기록	
00:00:16:78	
00:00:17:78	



Clicked!!



Assignment-CH7		
00:00:19:48		
기록	일시정지	중지
더보기		



Clicked!!



Assignment-CH7
00:00:00:00
시작

*기록도 삭제

Button UI Color

Normal: #3F51B5
Clicked: #40A7B5
Border: #000000

Step1. Make MainActivity.java & activity_main.xml file

Use thread and handler to implement the timer functions

Step2. Make NewActivity.java & activity_new.xml file

Display time records

Step3. Make button_border.xml (as drawable) and link with buttons' background

* thread / handler
↳ Async task ⇒ 2d 2d 0 0 ★

Hint activity_main.xml layout & button_border.xml drawable

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout >
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_weight="1">
        <TextView/>
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <Button/>
            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="horizontal">
                <Button/>
                <Button/>
                <Button/>
            </LinearLayout>
        </RelativeLayout>
    <Button/>
</LinearLayout>
</LinearLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:state_pressed="true">
        <shape android:shape="rectangle">
            <solid />
            <stroke />
        </shape>
    </item>

    <item>
        <shape android:shape="rectangle">
            <solid />
            <stroke />
        </shape>
    </item>
</selector>
```

Assessment (200)

- 100: Submit 15 screenshots as shown in Page 5 to 9
- 70: Use thread and handler for the timer implementation
- 30: Implement button animation with 'button_border'.xml
- ~~40~~: if 'student id' and 'name' are not displayed in the title bar of your App.

→ AsyncTask → 257 X