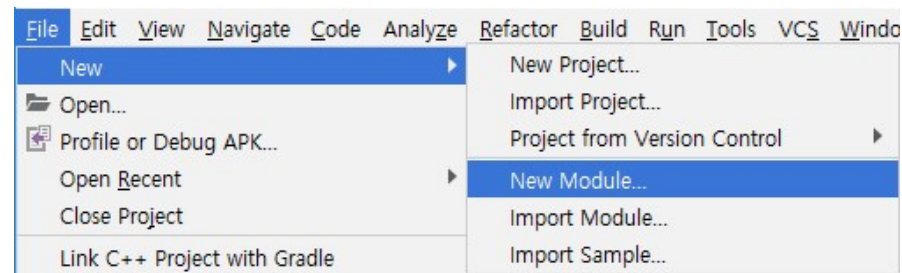
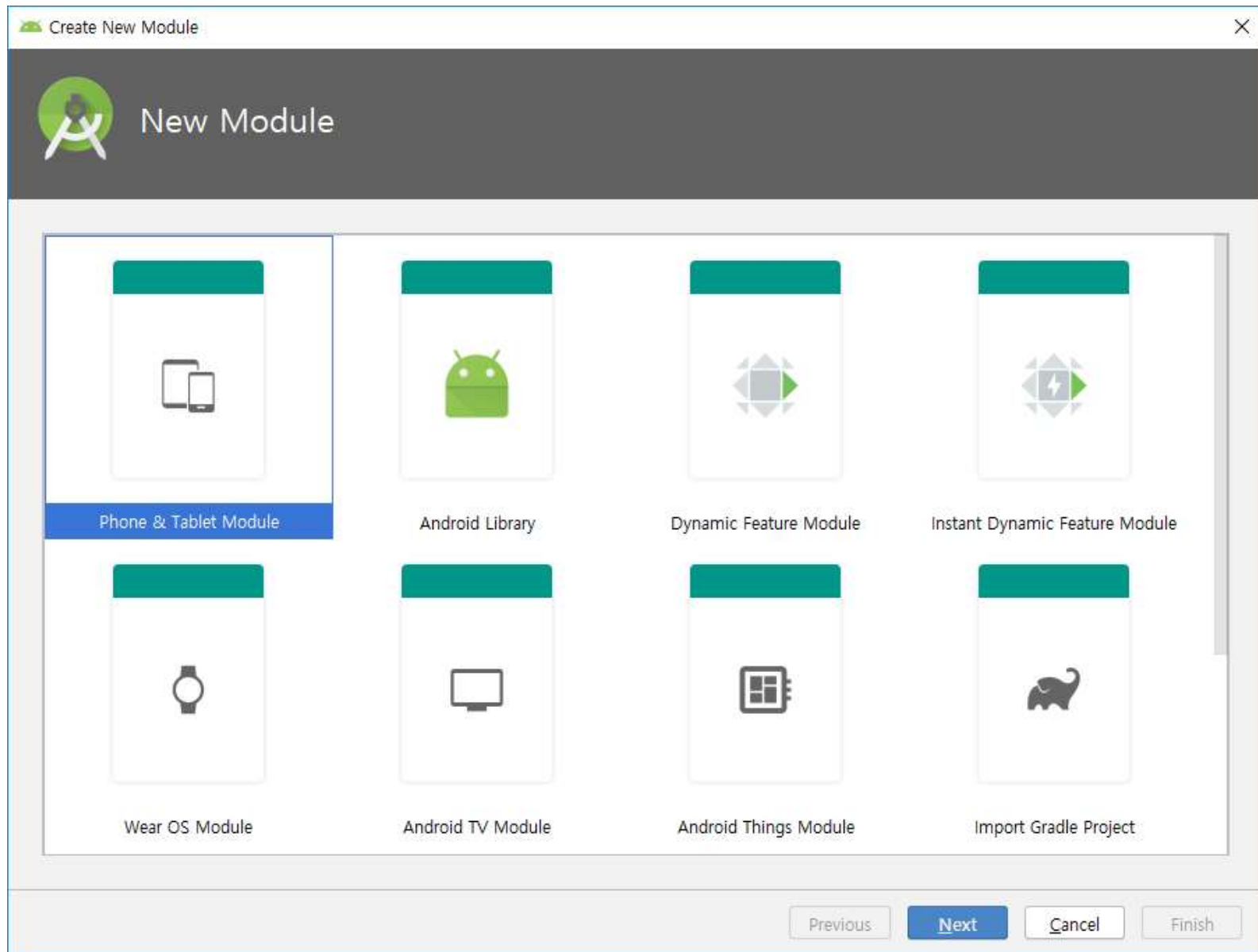




데리게이션 이벤트

Step 1 _ 모듈 생성





Create New Module

 Phone & Tablet Module

Configure the new module

Application/Library name

Module name

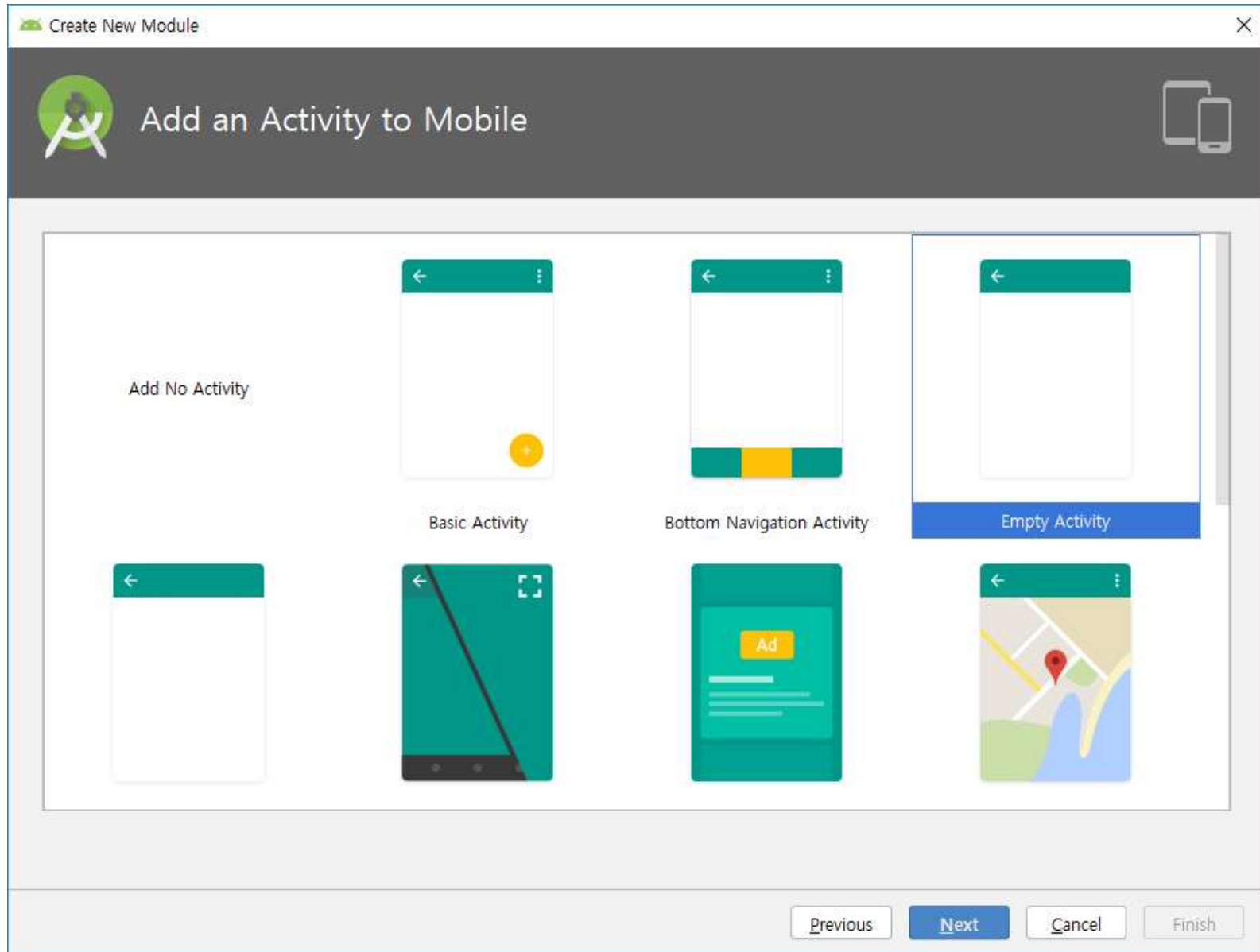
Package name

com.example.user.lab04 Edit



Minimum SDK

API 15: Android 4.0.3 (IceCreamSandwich) ▼

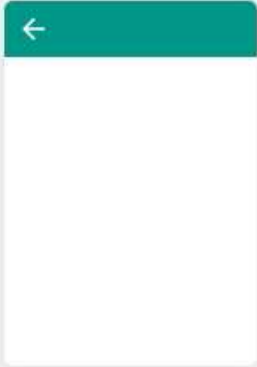
Previous Next Cancel Finish



Create New Module

 Configure Activity

Creates a new empty activity



Activity Name:

MainActivity

☒ Generate Layout File

Layout Name:

activity_main

Source Language:

Java

The name of the activity class to create

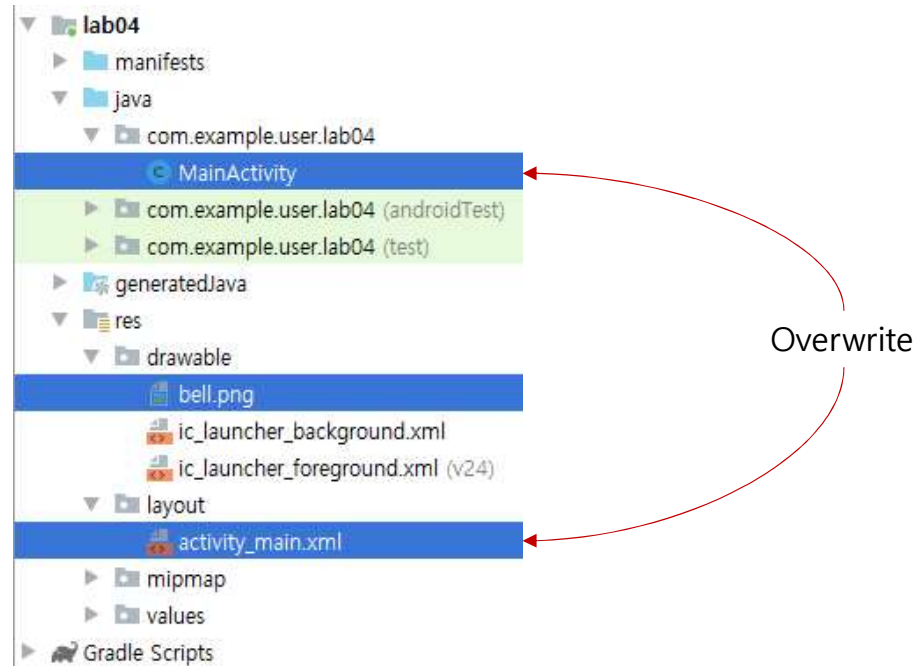
Previous

Next

Cancel

Finish

Step 2 _ 파일 복사



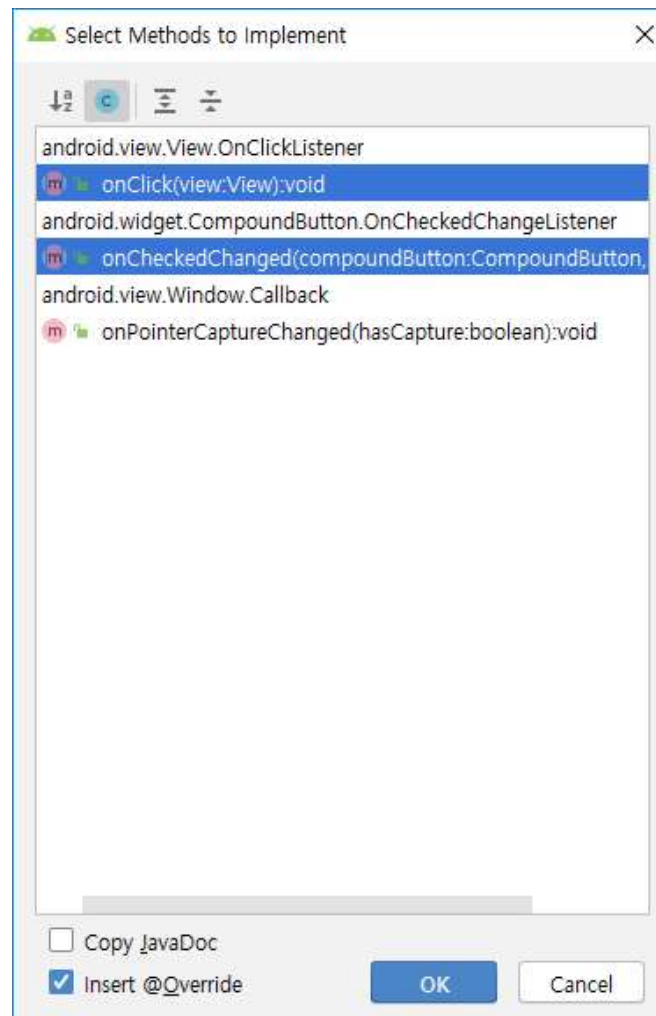
Step 3 _ 이벤트 리스너 인터페이스 선언

```
1 package com.example.user.lab04;
2
3 import ...
12
13 public class MainActivity extends AppCompatActivity implements View.OnClickListener, CompoundButton.OnCheckedChangeListener {
14
15     Implement methods
16     Make 'MainActivity' abstract
17     Add import for 'android.view.View.OnClickListener'
18     Create Test
19     Create subclass
20     Unimplement Interface
21     Annotate interface 'OnClickListener' as @Deprecated
22
23     super.onCreate(savedInstanceState);
24     setContentView(R.layout.activity_main);
25
26     bellTextView = findViewById(R.id.bell_name);
27     labelTextView = findViewById(R.id.label);
28     repeatCheckView = findViewById(R.id.repeatCheck);
29     vibrateCheckView = findViewById(R.id.vibrate);
30     switchView = findViewById(R.id.onOff);
31 }
32
33 private void showToast(String message){
34     Toast toast = Toast.makeText(context: this, message, Toast.LENGTH_SHORT);
35     toast.show();
36 }
37 }
```

① Check Box, ② RadioButton
③ Switch

④ ToggleButton

두 가지 상태를
담고있는 버튼



```
public class MainActivity extends AppCompatActivity implements View.OnClickListener, CompoundButton.OnCheckedChangeListener {
```

```
    TextView bellTextView;  
    TextView labelTextView;  
    CheckBox repeatCheckView;  
    CheckBox vibrateCheckView;  
    Switch switchView;
```

```
@Override
```

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

```
    bellTextView = findViewById(R.id.bell_name);  
    labelTextView = findViewById(R.id.label);  
    repeatCheckView = findViewById(R.id.repeatCheck);  
    vibrateCheckView = findViewById(R.id.vibrate);  
    switchView = findViewById(R.id.onOff);  
}
```

```
private void showToast(String message){  
    Toast toast = Toast.makeText(this, message, Toast.LENGTH_SHORT);  
    toast.show();  
}
```

```
@Override  
public void onClick(View view) {  
}
```

```
@Override  
public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {  
}
```

```
}
```

Event Source 객체

← 강제 형 변환 view → CompoundButton

두 가지 상태 판별

Step 4 _ onClick() 함수 구현

@Override

```
public void onClick(View view) {  
    if (view == bellTextView) {  
        showToast("bell text click event...");  
    } else if (view == labelTextView) {  
        showToast("label text click event...");  
    }  
}
```

Step 5 _ isCheckedChanged() 함수 구현

@Override

```
public void isCheckedChanged(CompoundButton buttonView, boolean isChecked) {  
    if (buttonView == repeatCheckView) {  
        showToast("repeat checkbox is " + isChecked);  
    } else if (buttonView == vibrateCheckView) {  
        showToast("vibrate checkbox is " + isChecked);  
    } else if (buttonView == switchView) {  
        showToast("switch is " + isChecked);  
    }  
}
```

Step 6 _ onCreate() 함수에서 리스너 등록

@Override

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

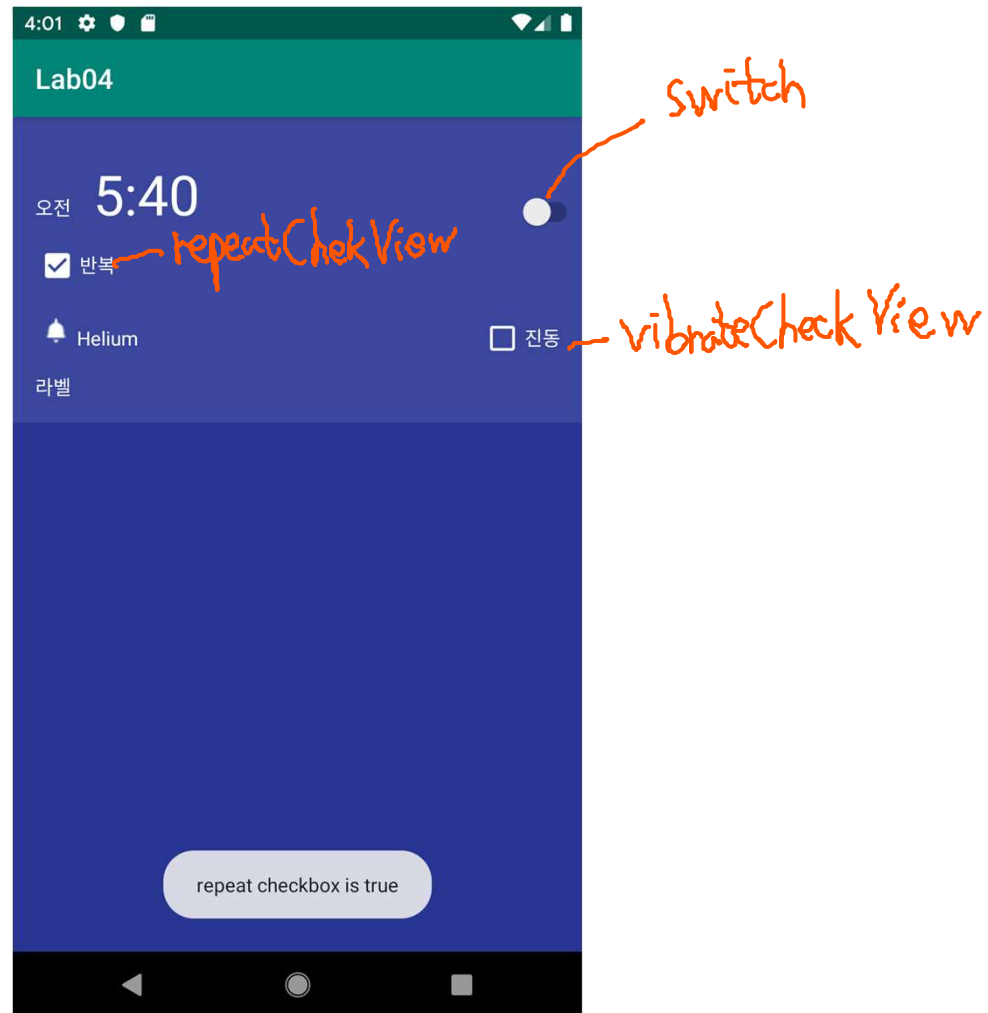
```
    bellTextView = findViewById(R.id.bell_name);  
    labelTextView = findViewById(R.id.label);  
    repeatCheckView = findViewById(R.id.repeatCheck);  
    vibrateCheckView = findViewById(R.id.vibrate);  
    switchView = findViewById(R.id.onOff);
```

```
    bellTextView.setOnClickListener(this);  
    labelTextView.setOnClickListener(this);
```

```
    repeatCheckView.setOnCheckedChangeListener(this);  
    vibrateCheckView.setOnCheckedChangeListener(this);  
    switchView.setOnCheckedChangeListener(this);
```

```
}
```

Step 7 _ 실행

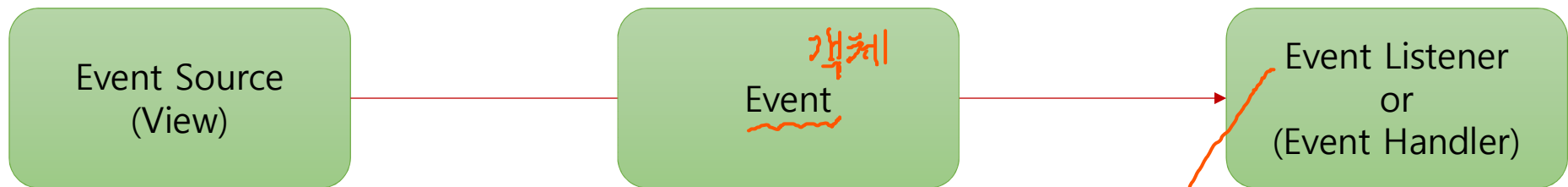


Delegation Event Model

- 이벤트 리스너 등록



- 이벤트 처리



 : Object