



삼성 오픈소스 컨퍼런스
SAMSUNG OPEN SOURCE CONFERENCE

OPEN YOUR UNIVERSE WITH SOSCON

Introduction to TIZEN SDK UI Builder

—

S-Core

서현수

2015.10.28

- TIZEN APP 이란?
- TIZEN SDK UI Builder 소개
- TIZEN APP 개발 방법
 - UI Builder 기능
 - UI Builder 사용방법
- 실전, TIZEN APP 개발 시작하기
- 마침



TIZEN APP?

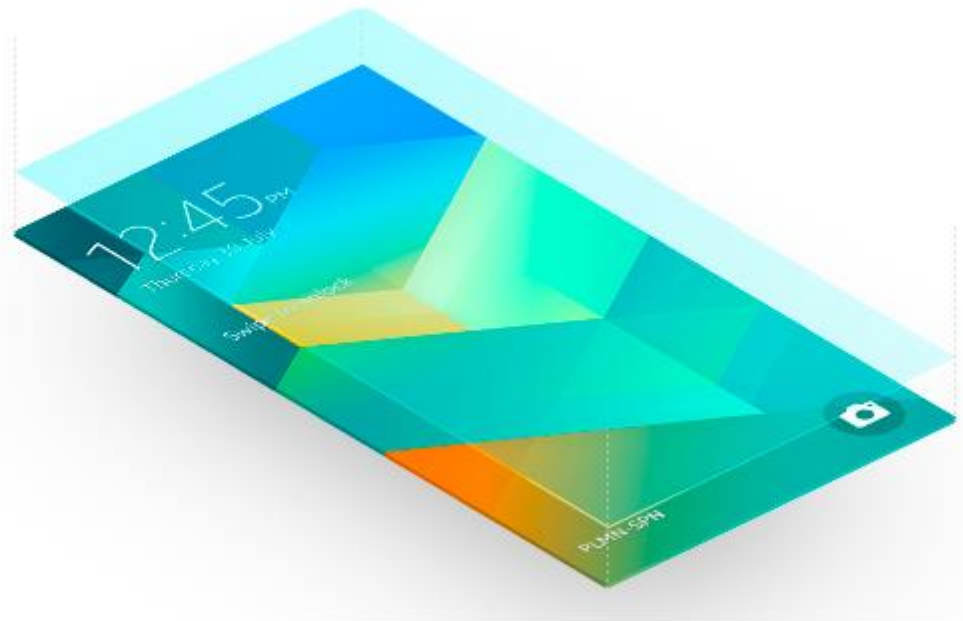
- Mobile, Wearable, Smart TV, In-Vehicle Infotainment..
TIZEN 플랫폼 기반 제품에서 구동되는 응용 어플리케이션



THE OS OF EVERYTHING

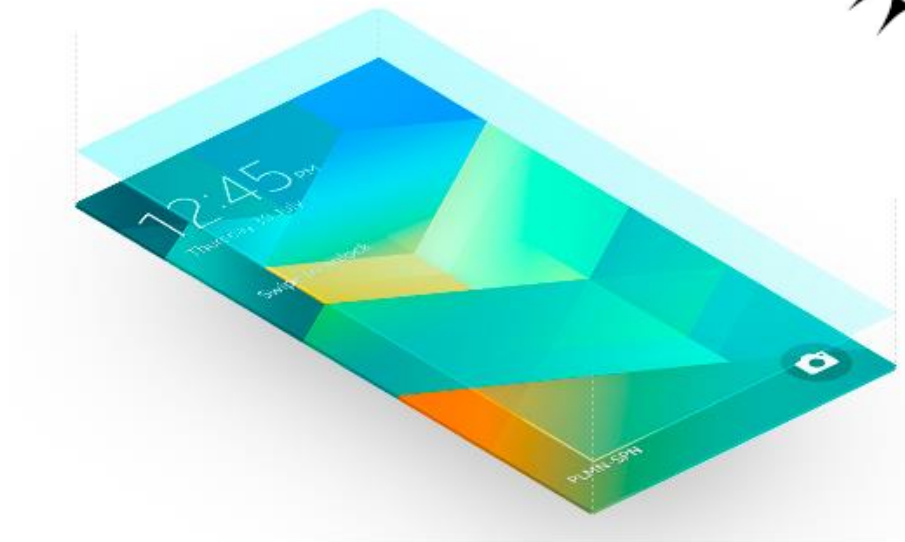
TIZEN 플랫폼

- Multi Profile 지원 (Mobile, Wearable, ...)
- Native, Web, Hybrid APP
- APP Market 기반 Ecosystem



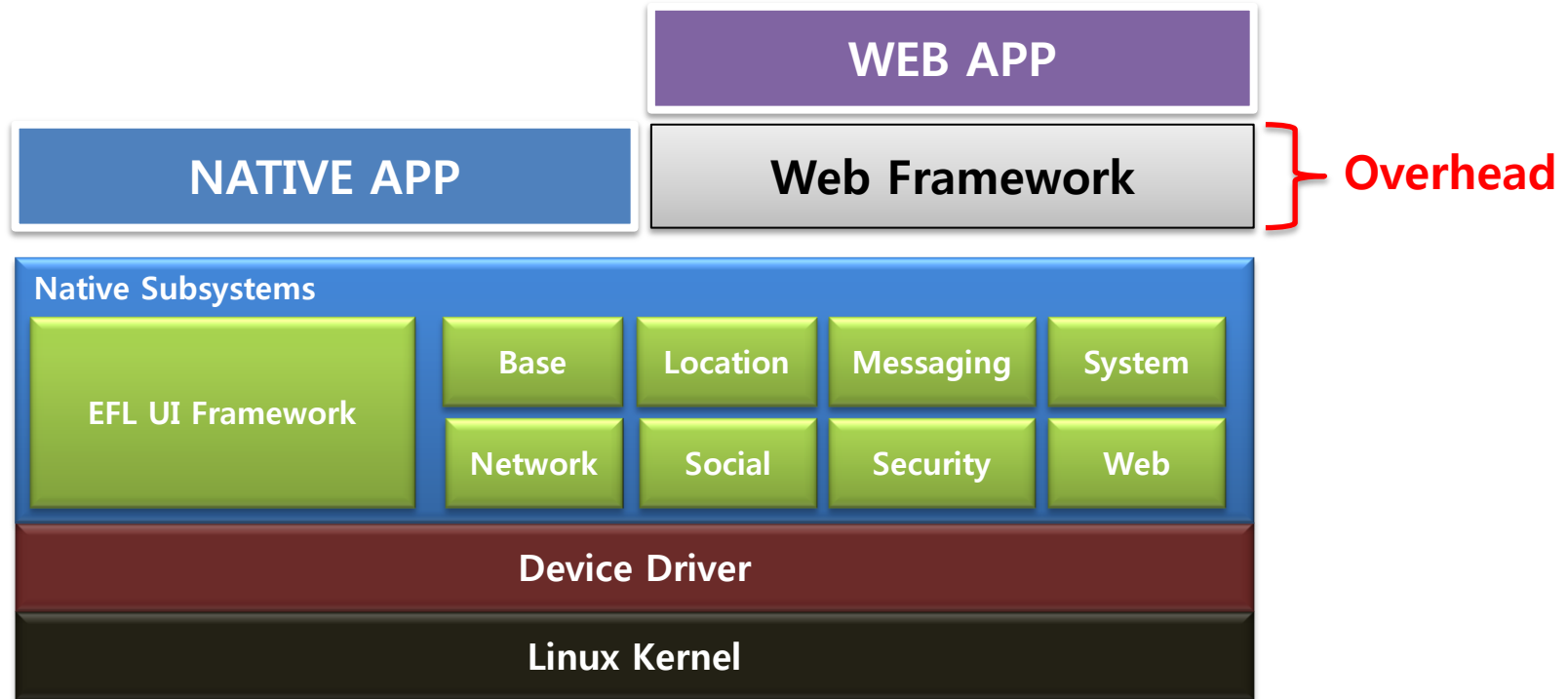
- C언어 기반

- C언어 기반
- EFL기반 UI Framework



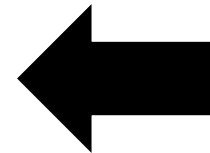
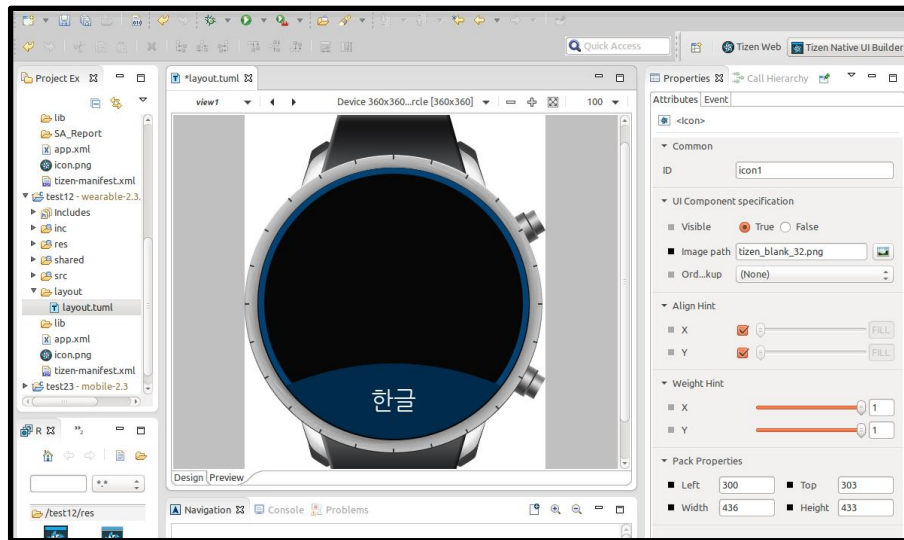
EFL

- C언어 기반
- EFL기반 UI Framework
- WEB APP 대비 빠른 반응 속도



UI Builder 구성

- **WYSIWYG 방식의 TIZEN Native APP 개발 도구**
- 화면(View) 단위 편집
- 스토리보드 기능
- 리소스(Image, Sound, String, etc..) 연동
- EDC 활용



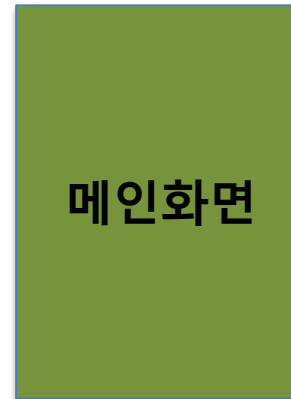
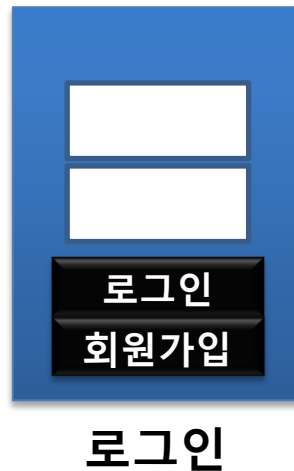
- WYSIWYG 방식의 TIZEN Native APP 개발 도구
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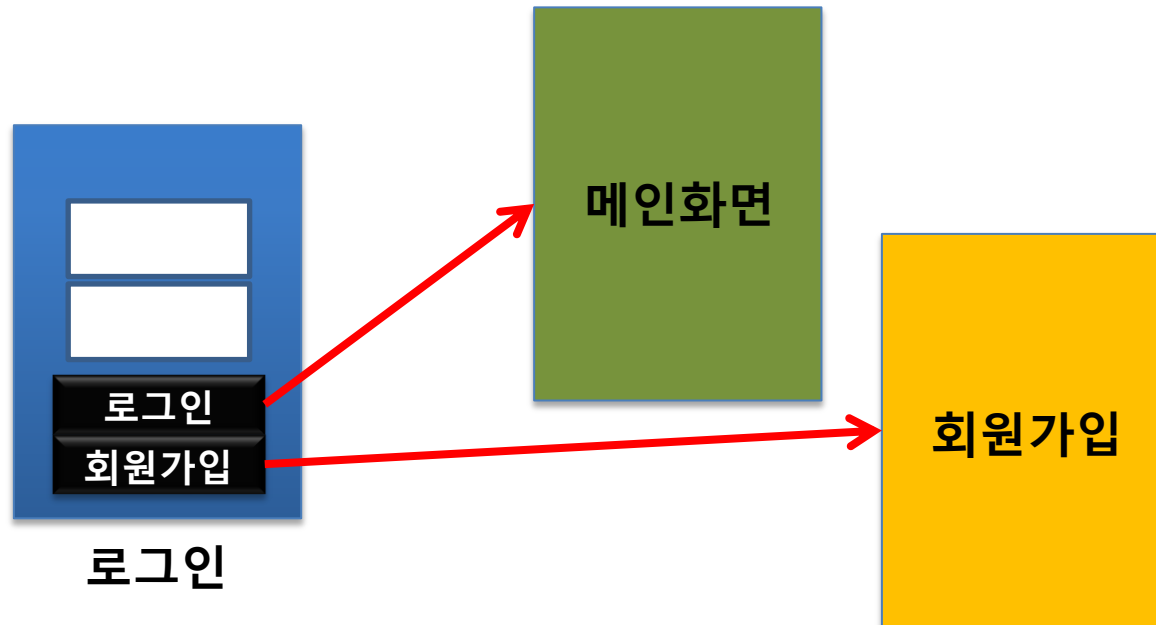
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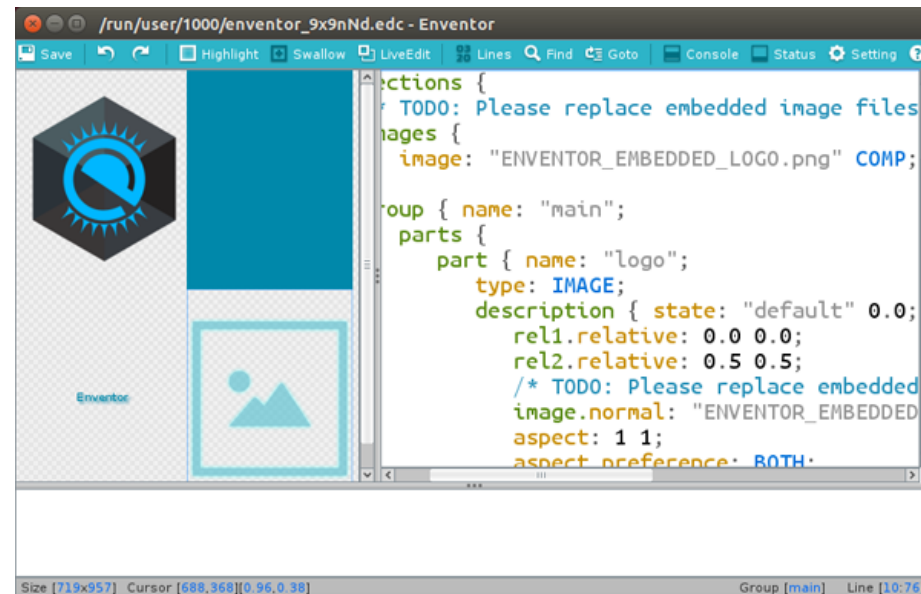


- WYSIWYG 방식의 TIZEN Native APP 개발 도구
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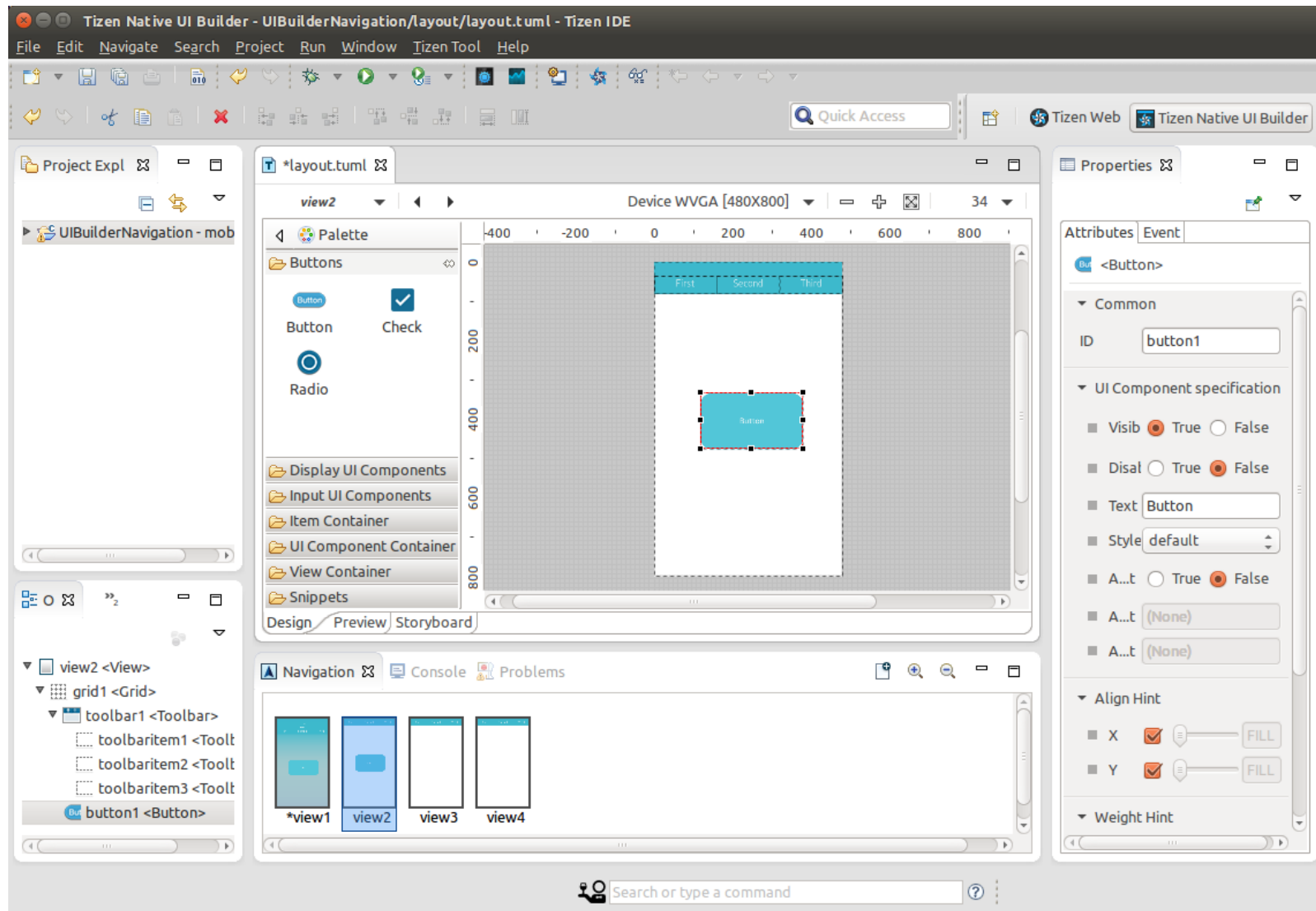


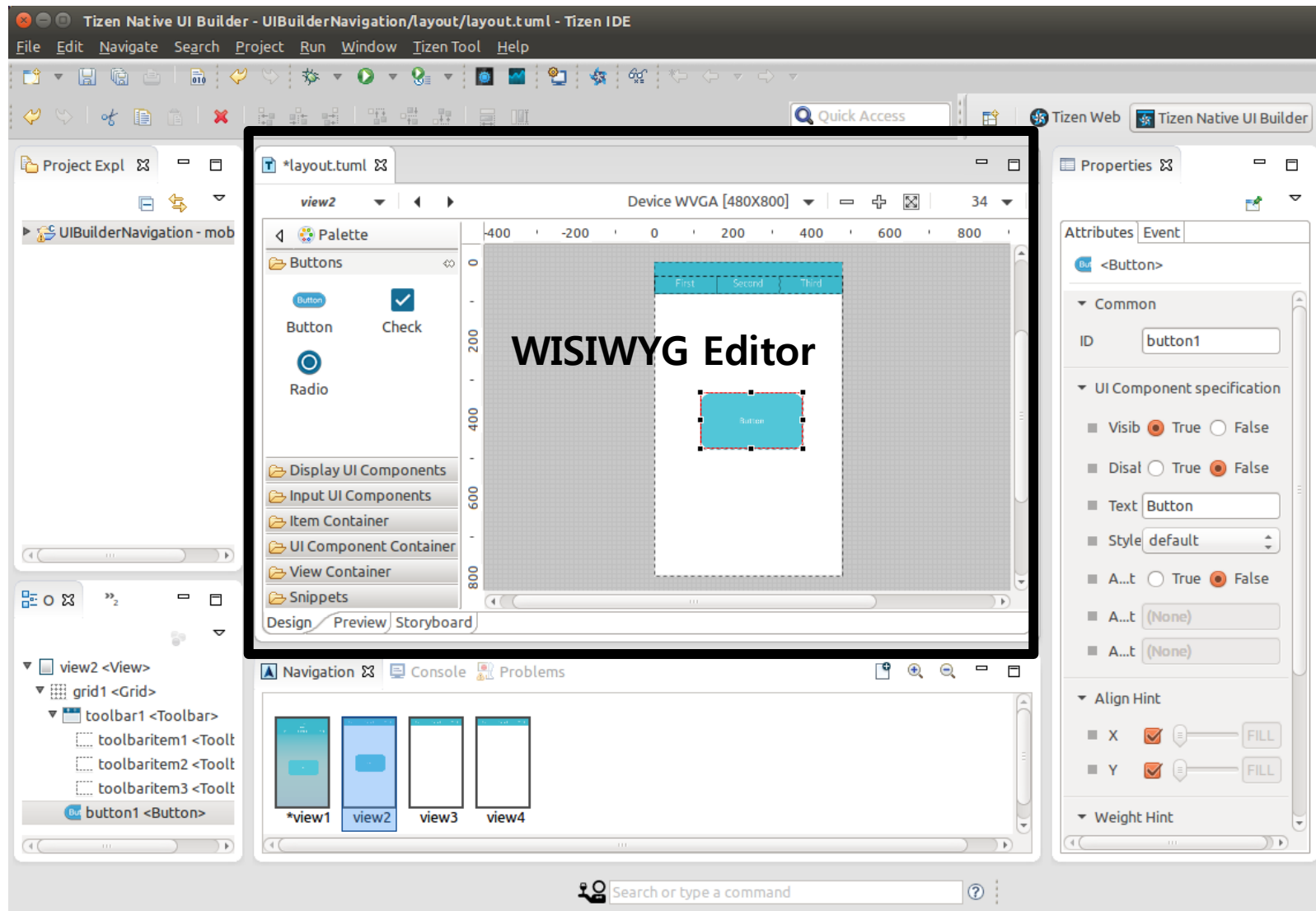
감각적인 앱 개발

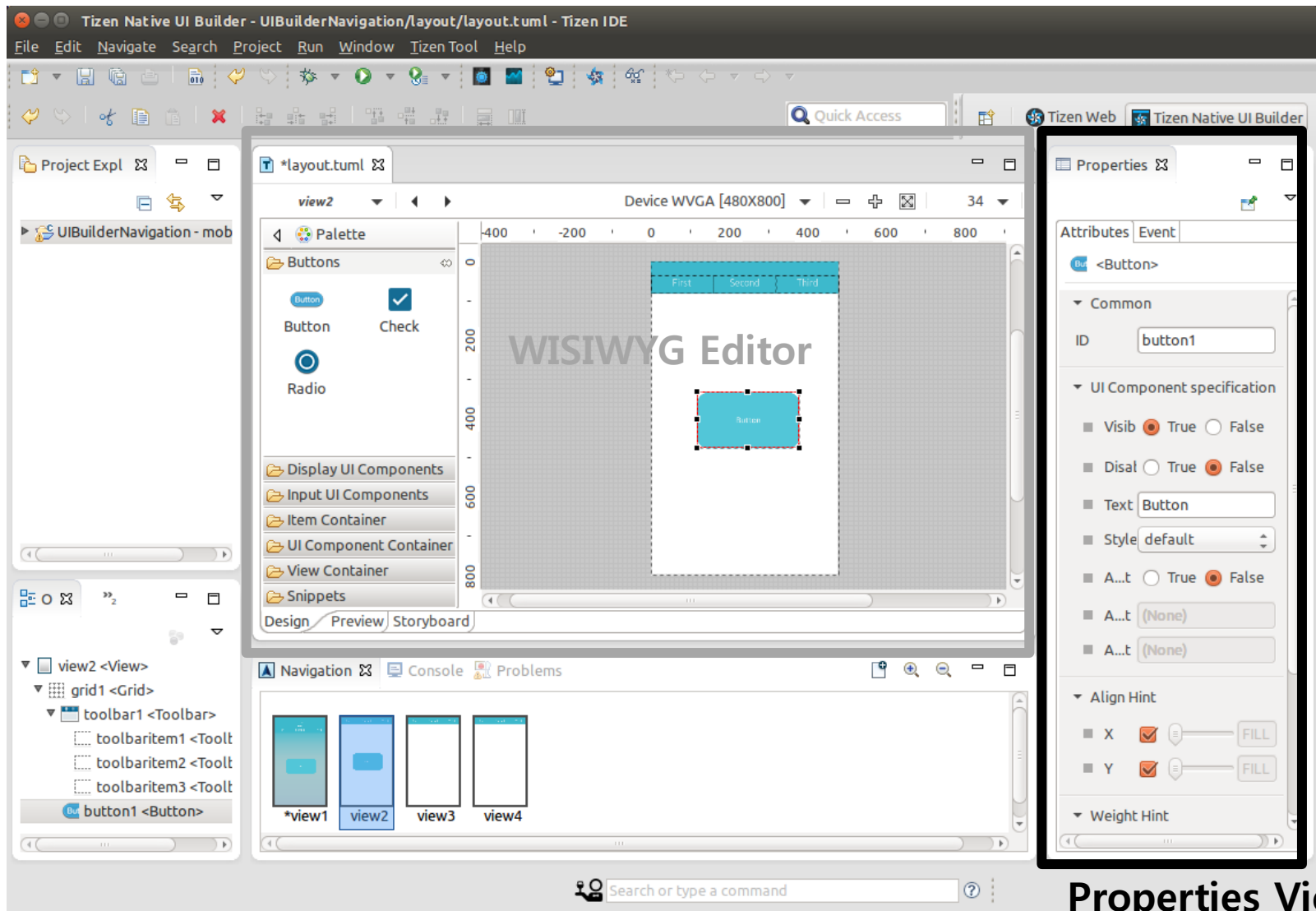
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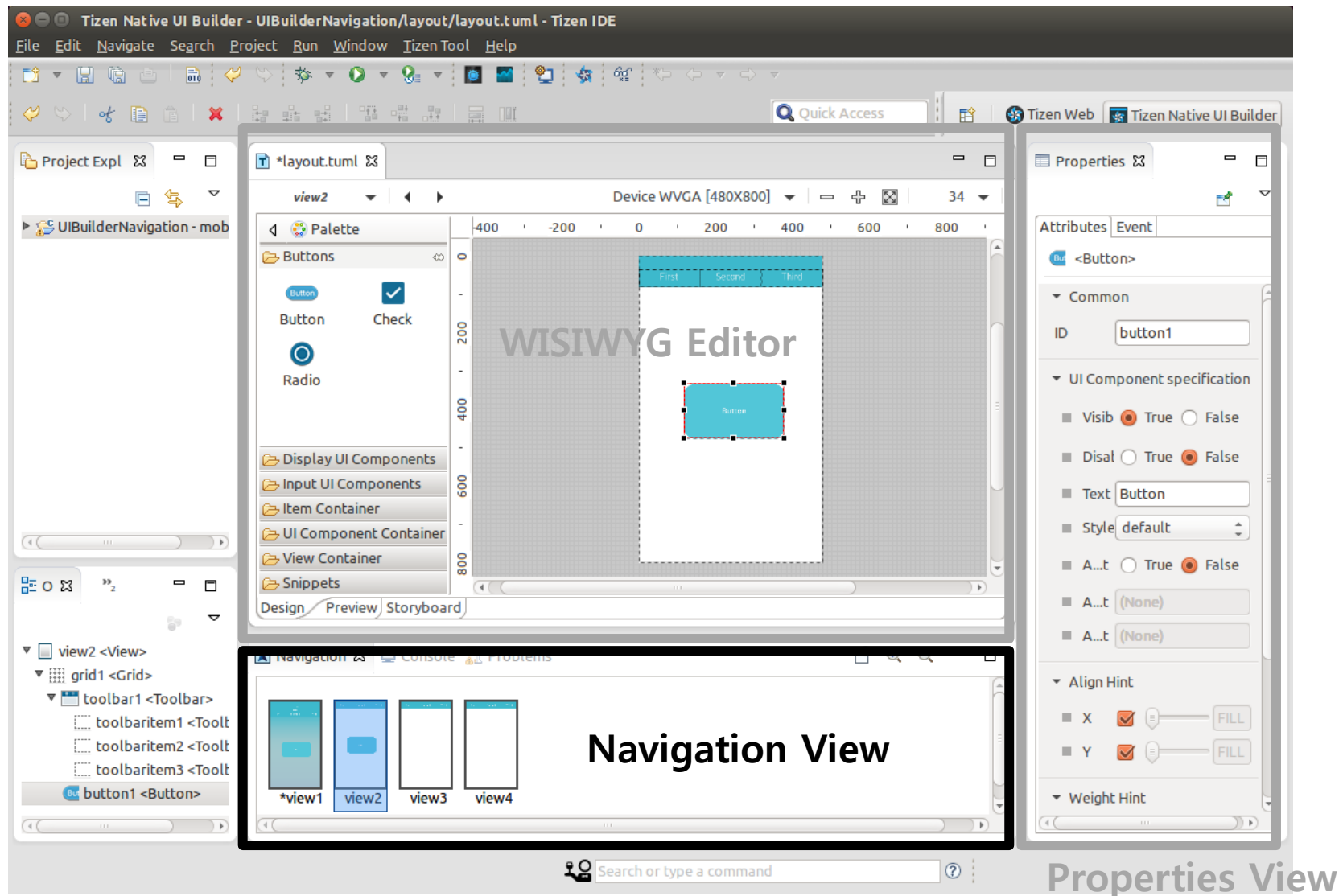
Enventor 활용

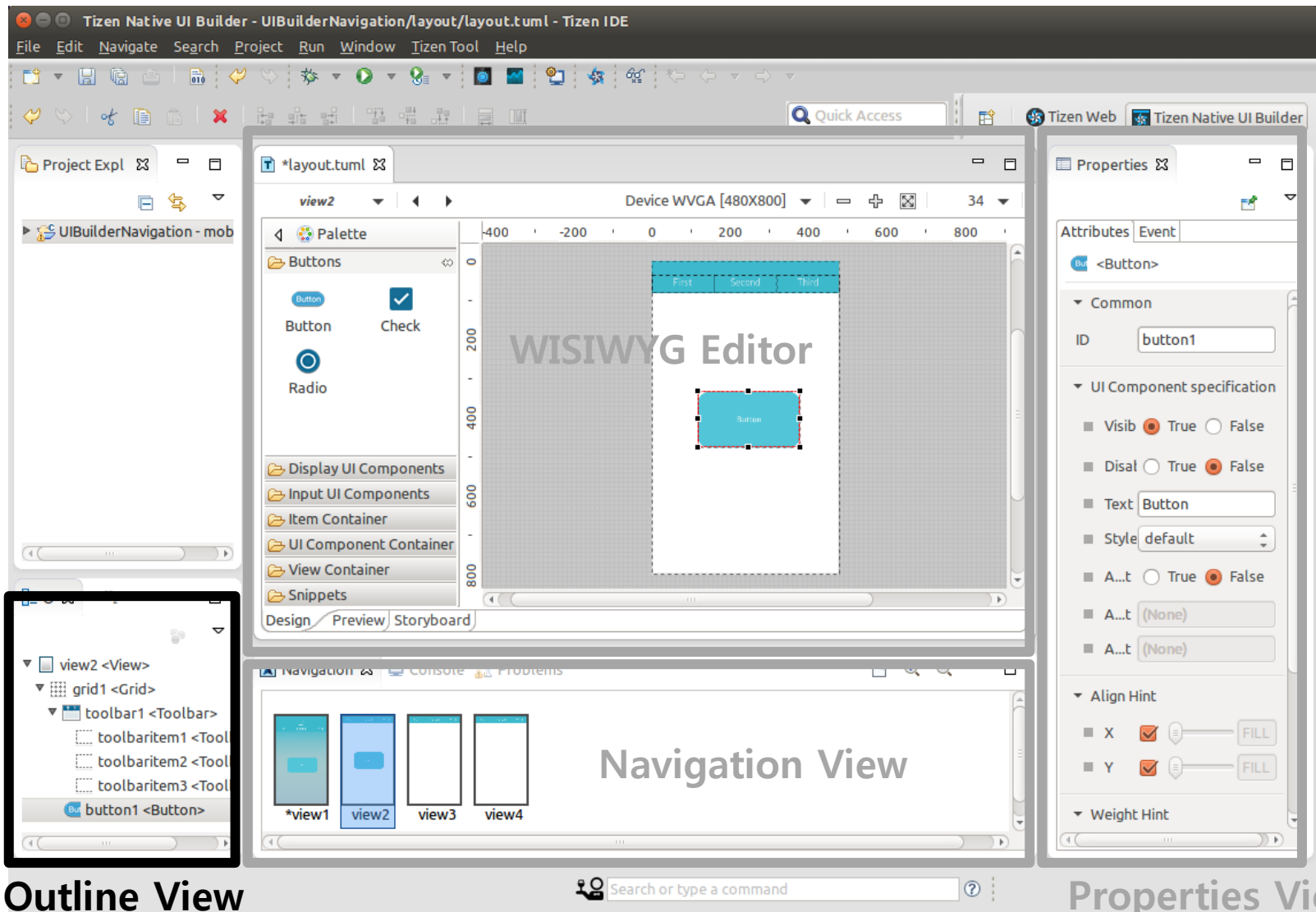


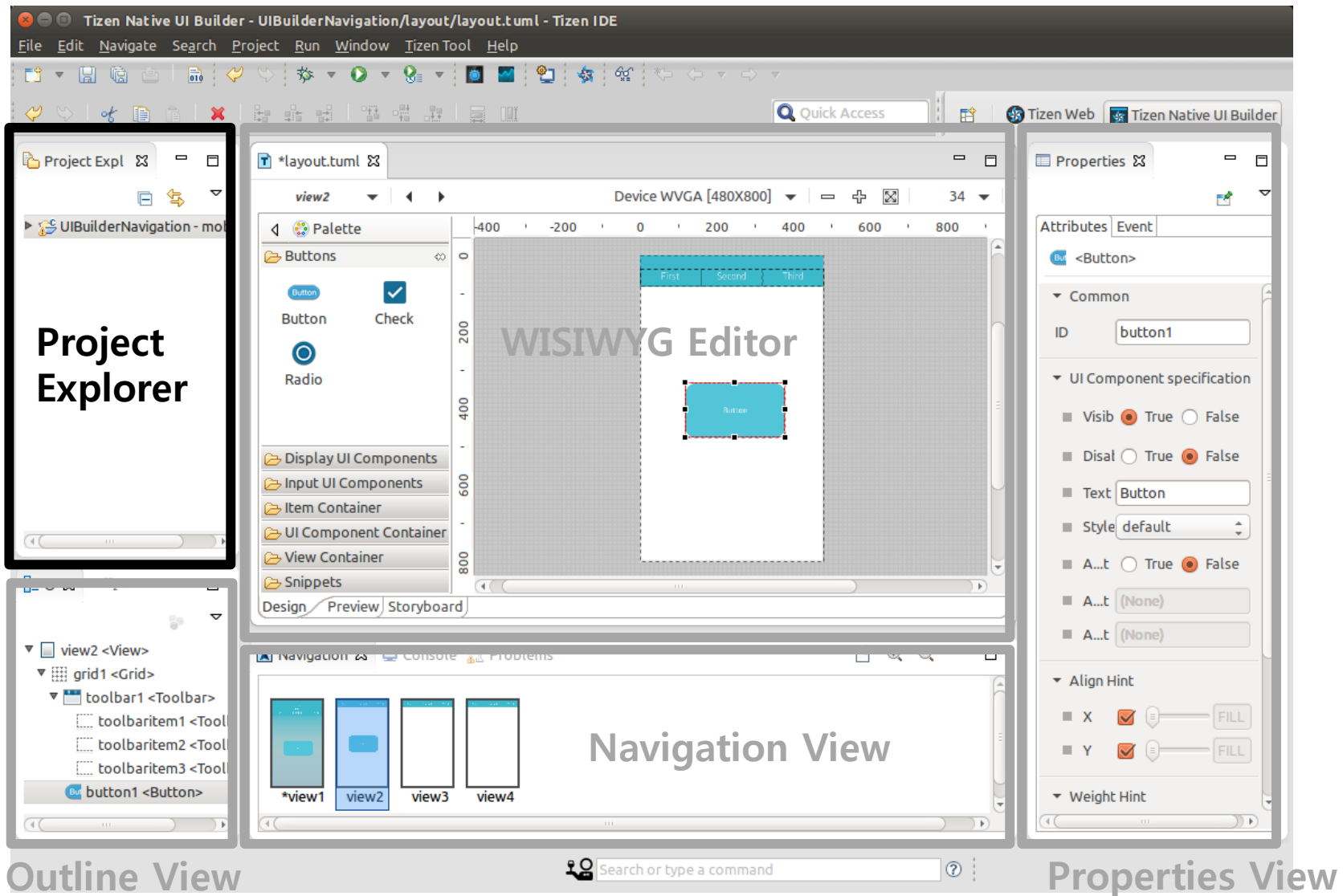




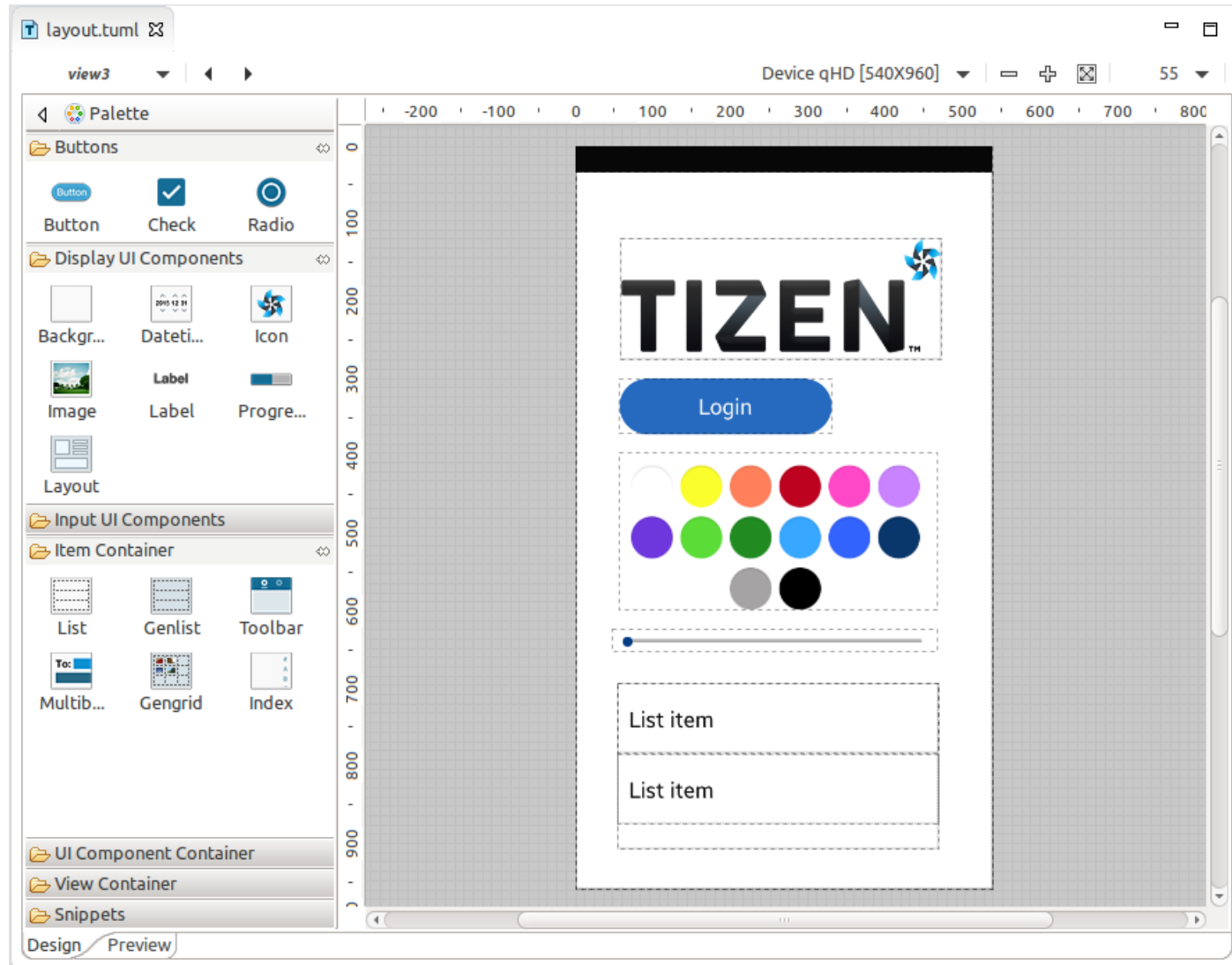
Properties View





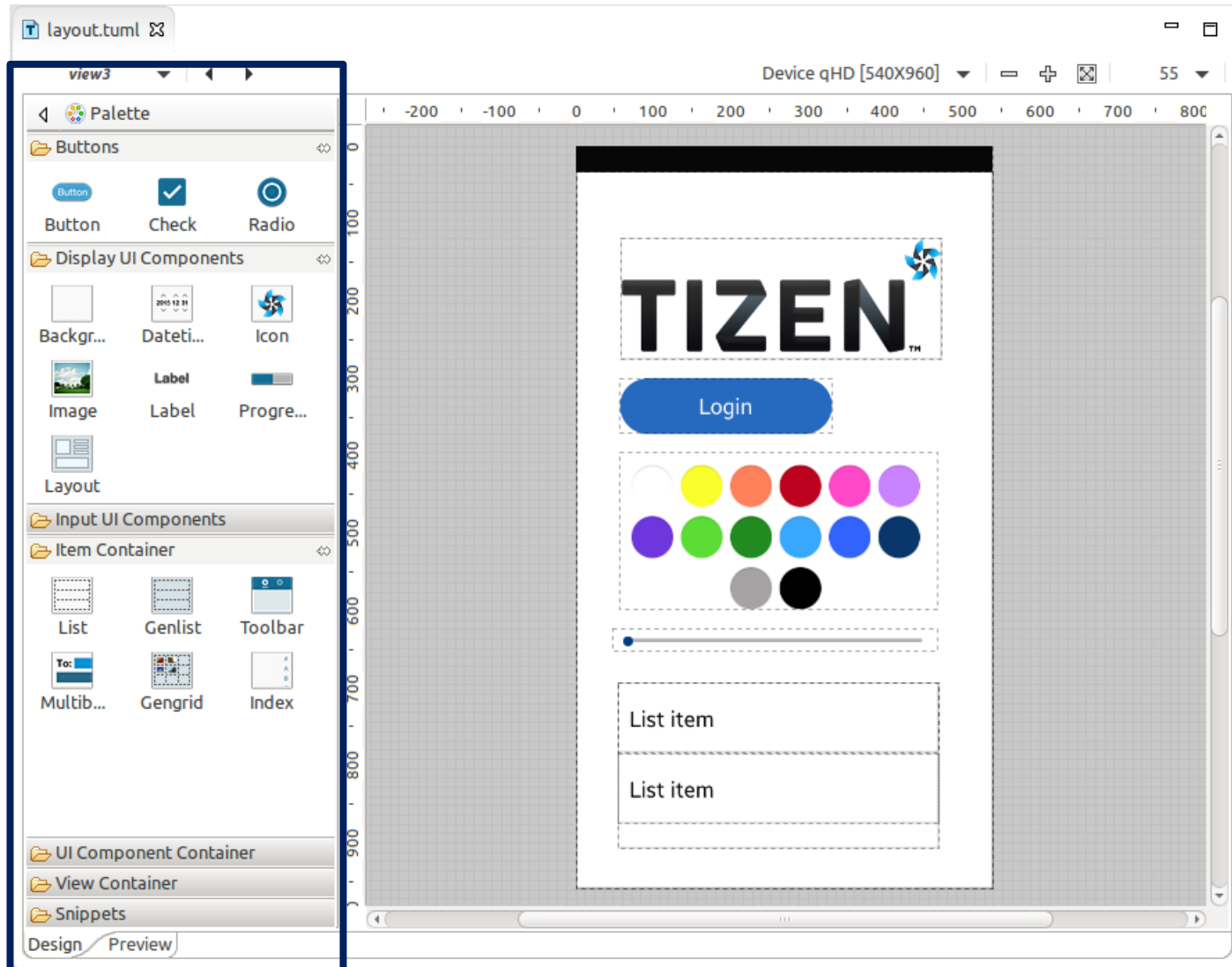


- UI Component 배치



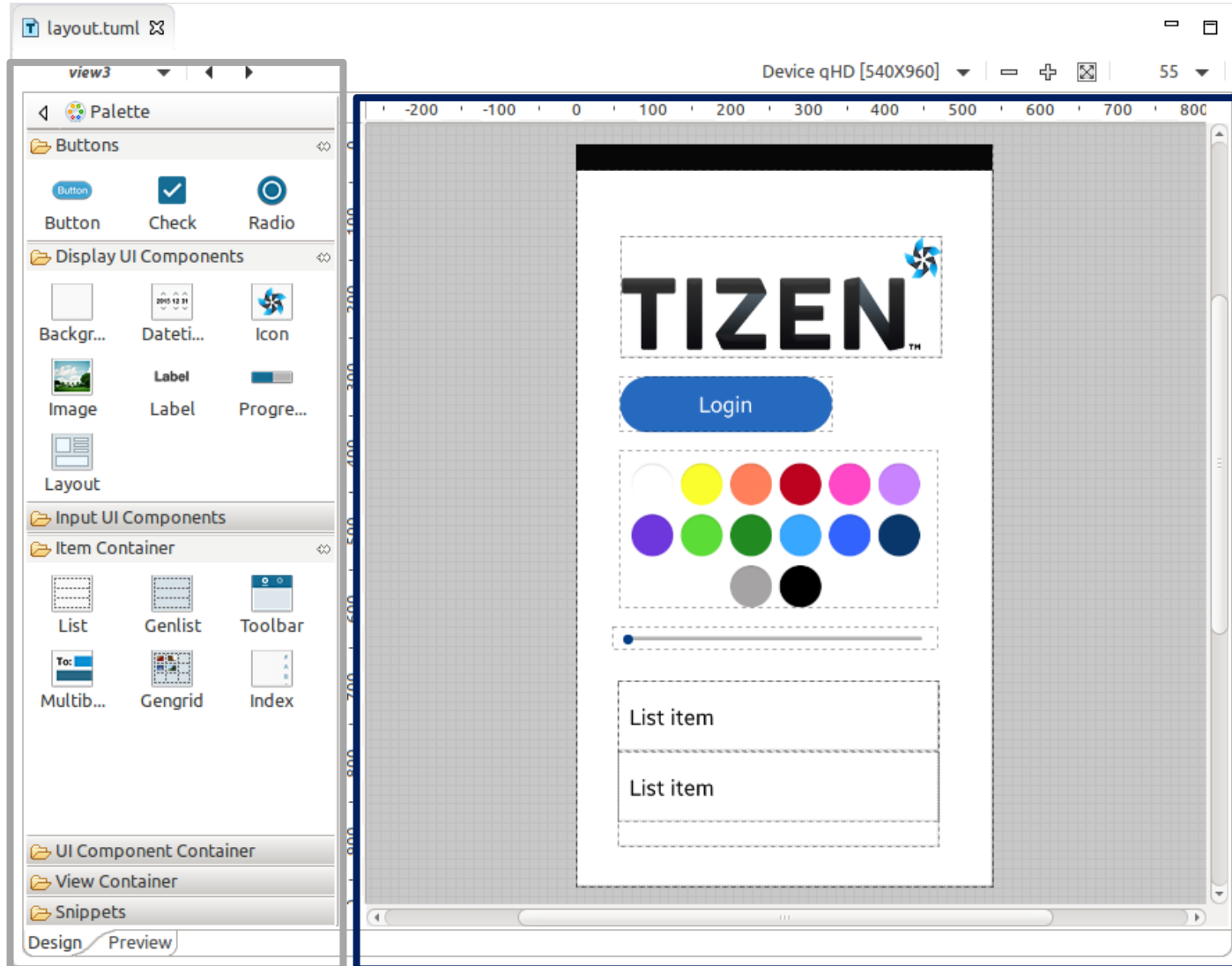
- UI Component 배치

Palette



- UI Component 배치

Palette

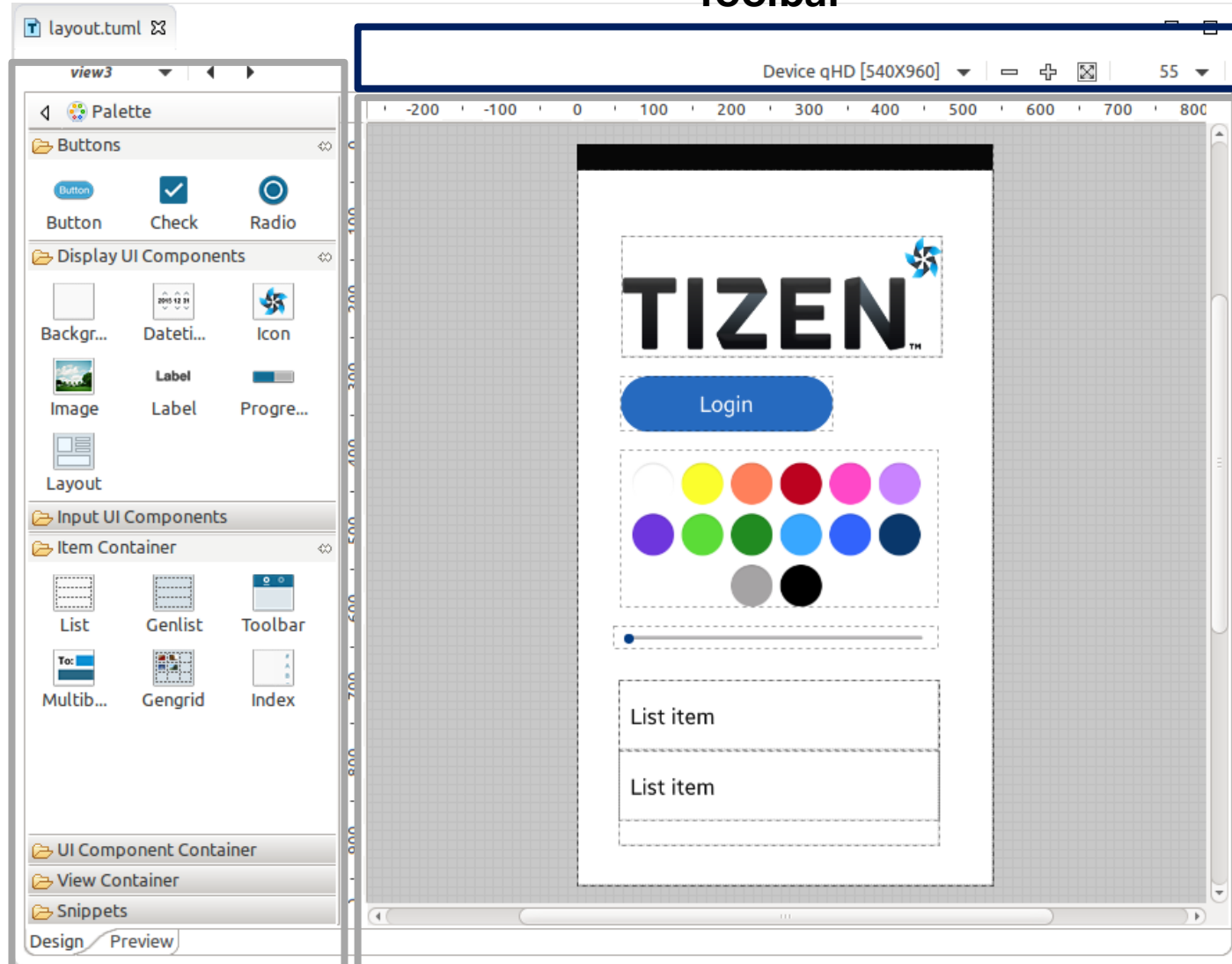


Canvas

- UI Component 배치

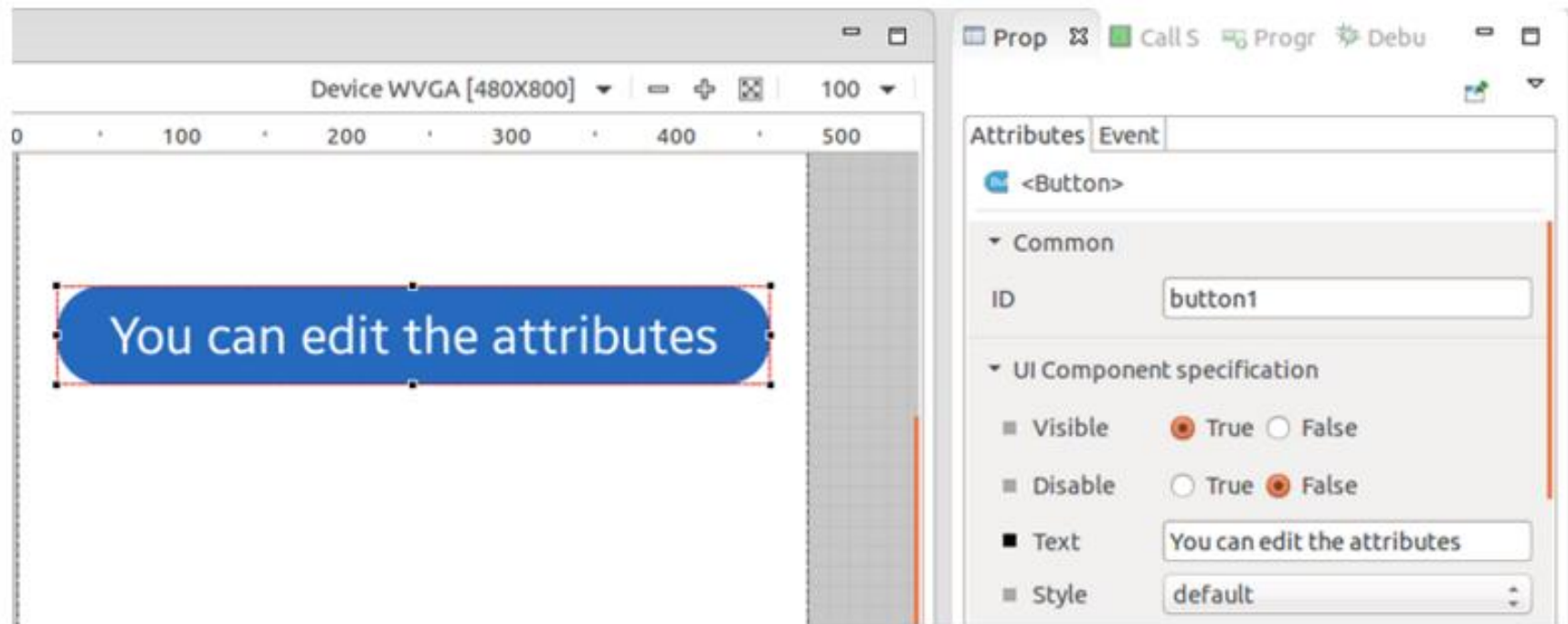
Palette

Toolbar

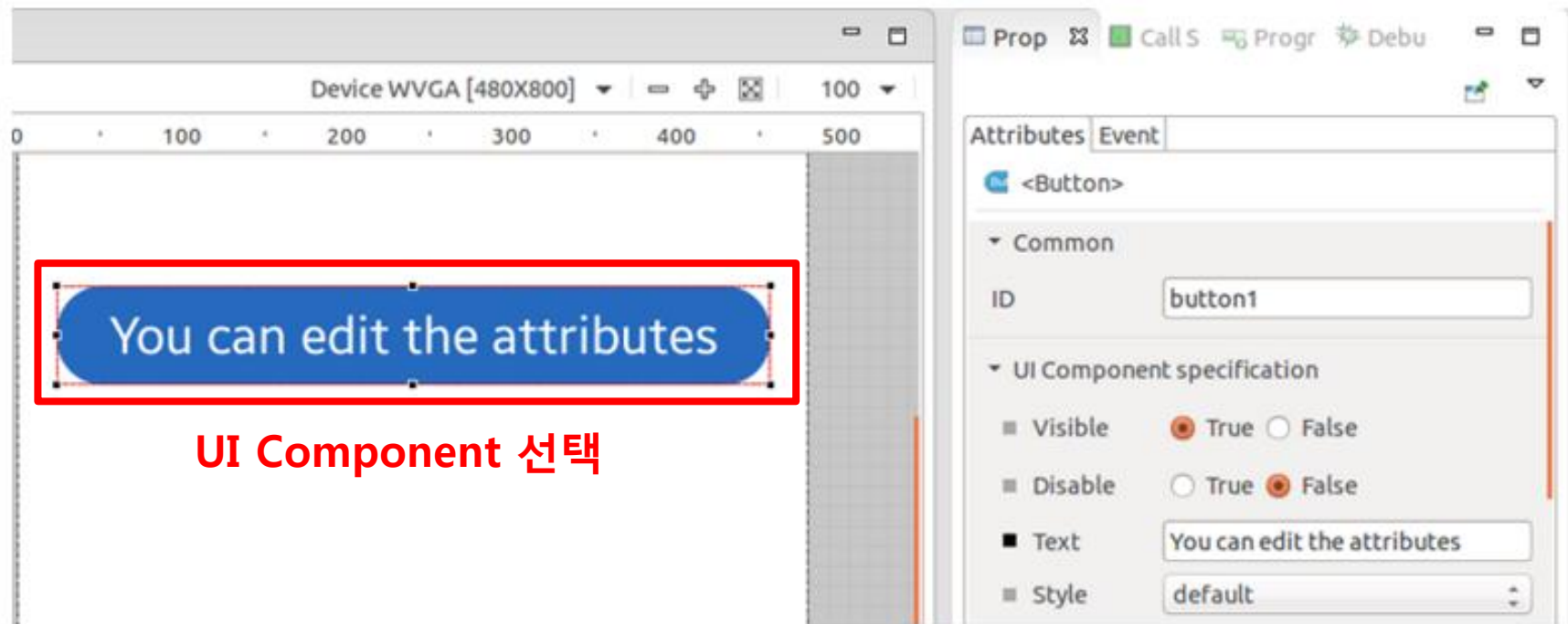


Canvas

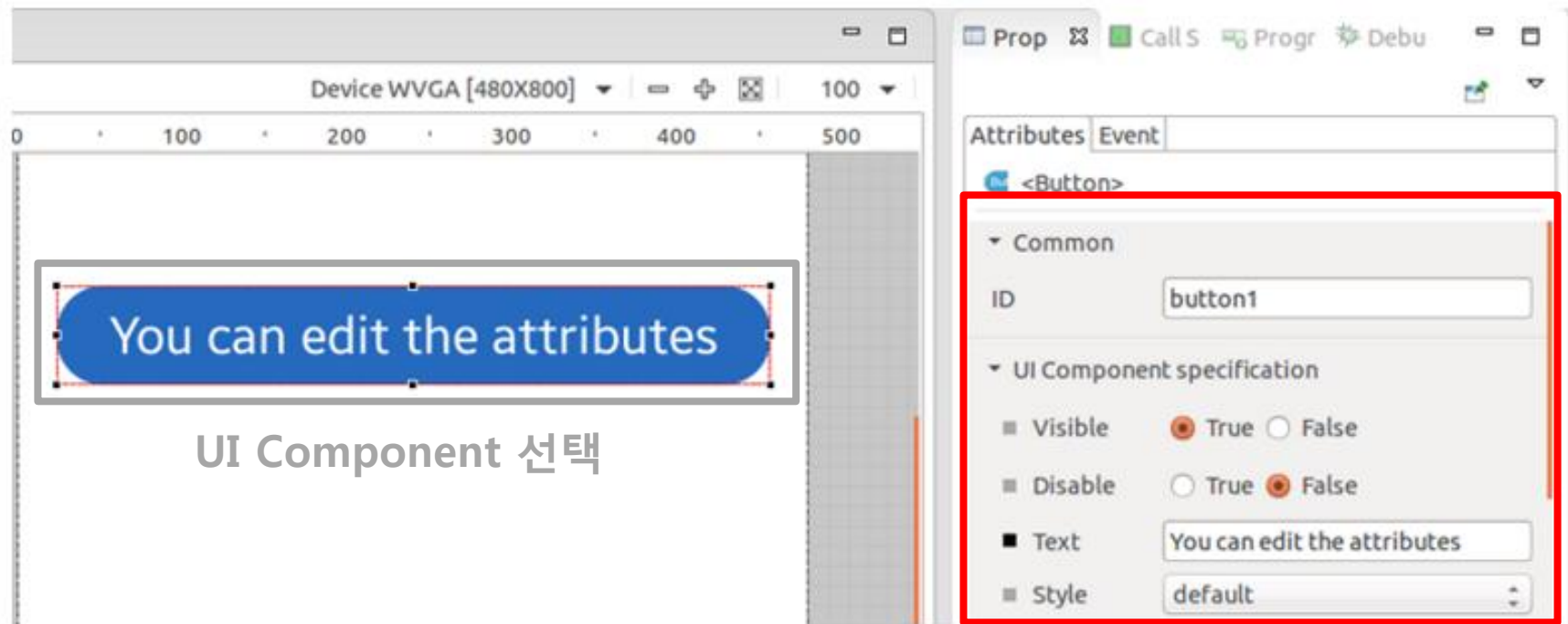
- UI Component 의 Attribute (수정)
- Event Handler (생성)



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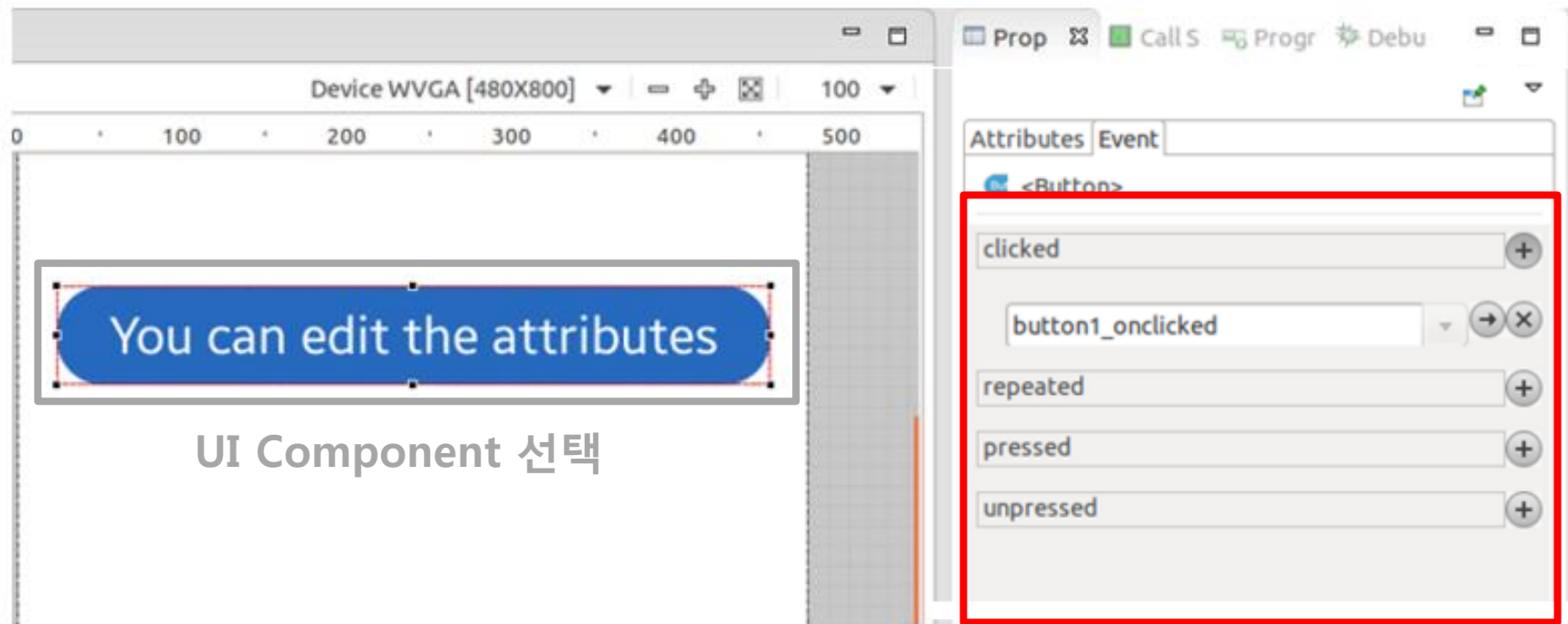


- UI Component 의 Attribute (수정)
- Event Handler (생성)



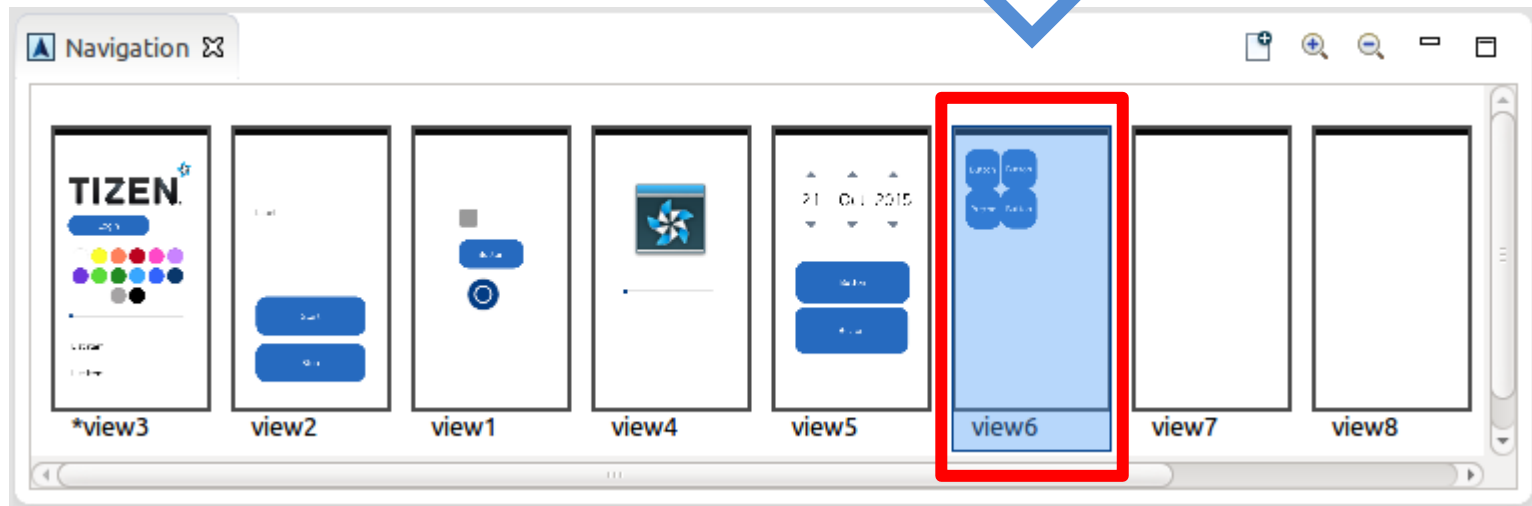
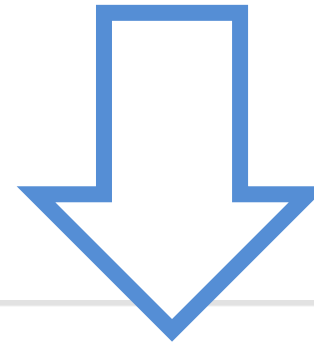
Attribute 수정

- UI Component 의 Attribute (수정)
- **Event Handler (생성)**

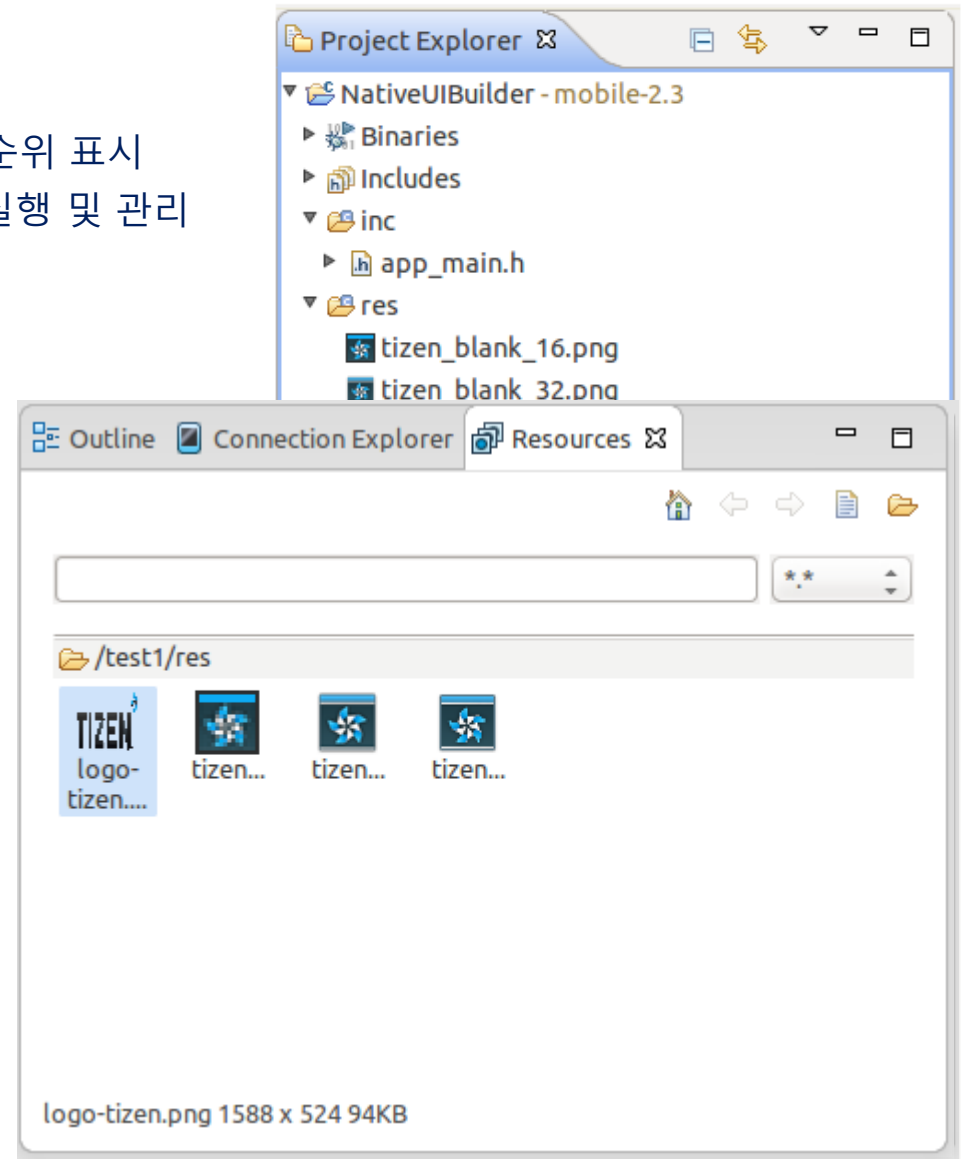


Event Handler 생성

- 생성된 화면(View) 목록 관리
- 디자인 할 화면(View) 선택



- **Project Explorer** – APP Project 관리
- **Outline View** – UI Component의 우선순위 표시
- **Connection Explorer** – 에뮬레이터 실행 및 관리
- **Resource View** – Project 리소스 관리

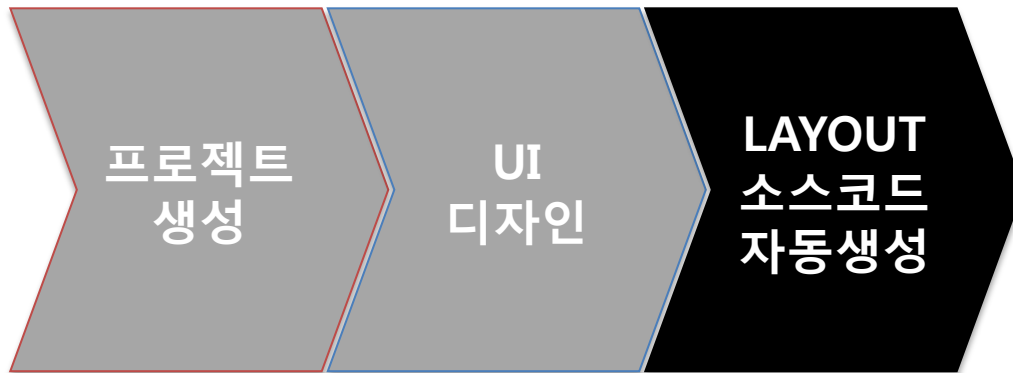


UI Builder 사용

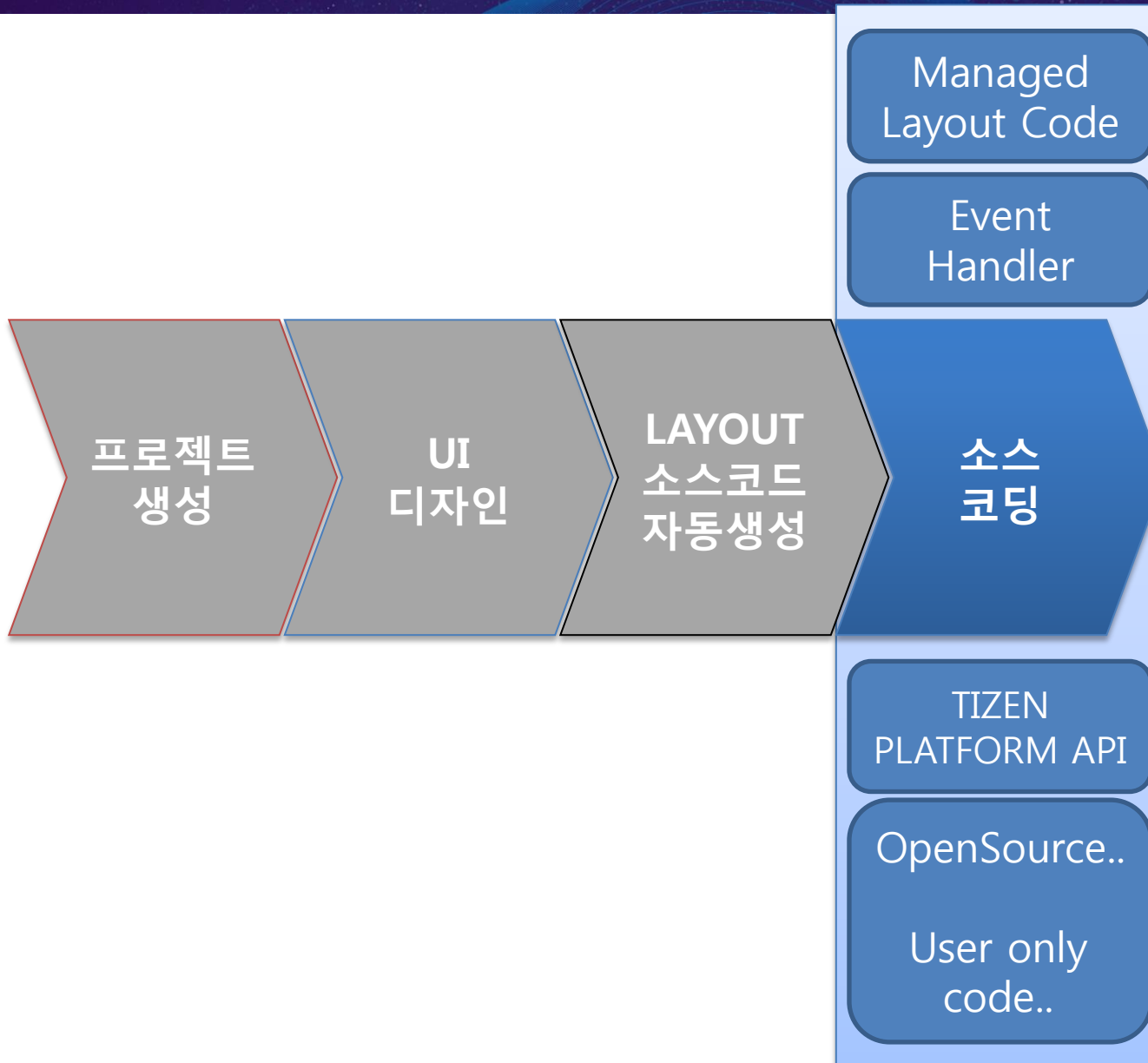


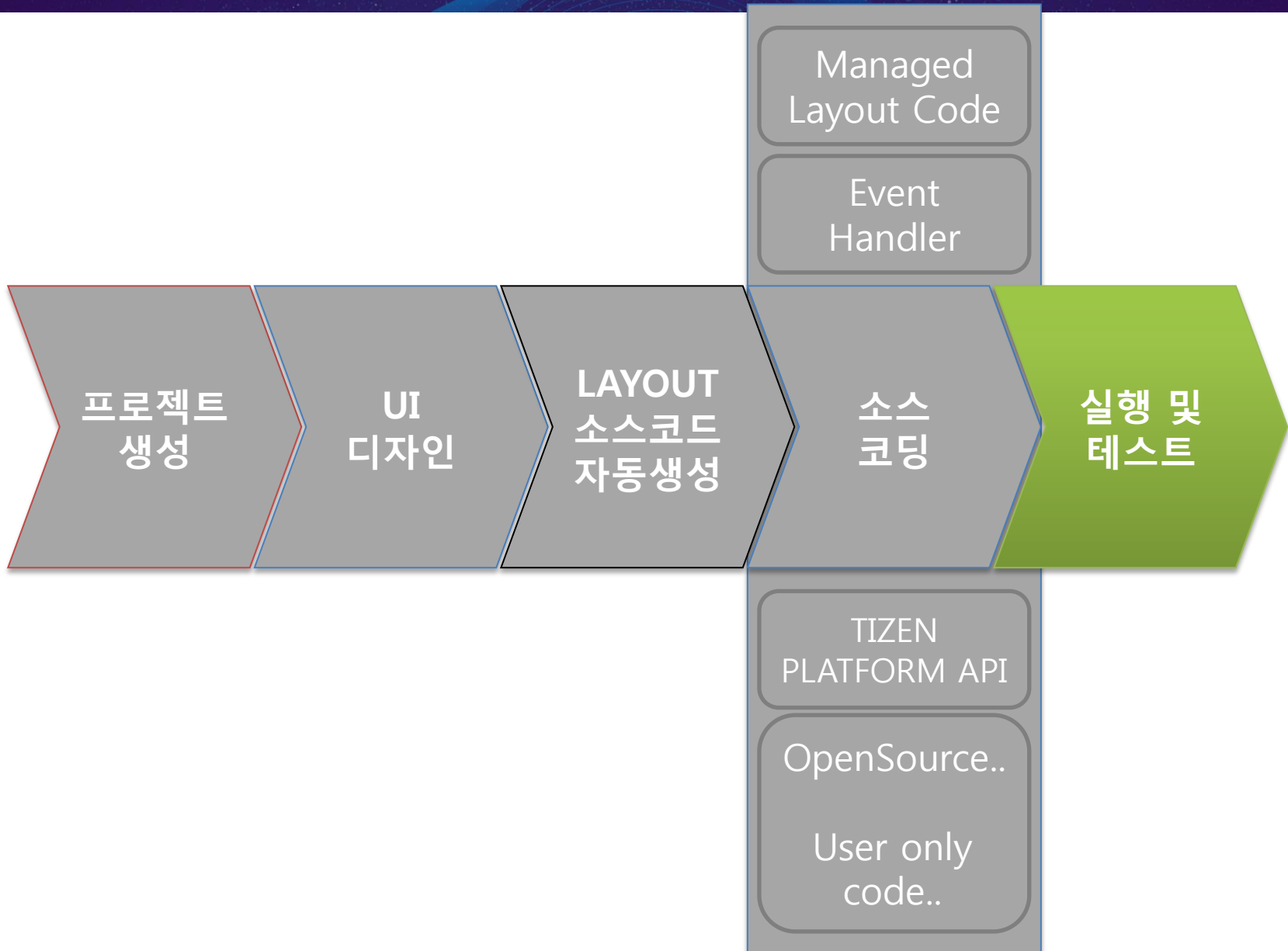
프로젝트
생성











1. 프로젝트 생성



먼저, 미리 촬영된 **영상**을 보겠습니다.



Quick Access



Tizen Web



Tizen Native UI Builder

Project Explorer



Ou

Co

Re

An outline is not available.

Navigation

Console

Problems

Navigation are not available.

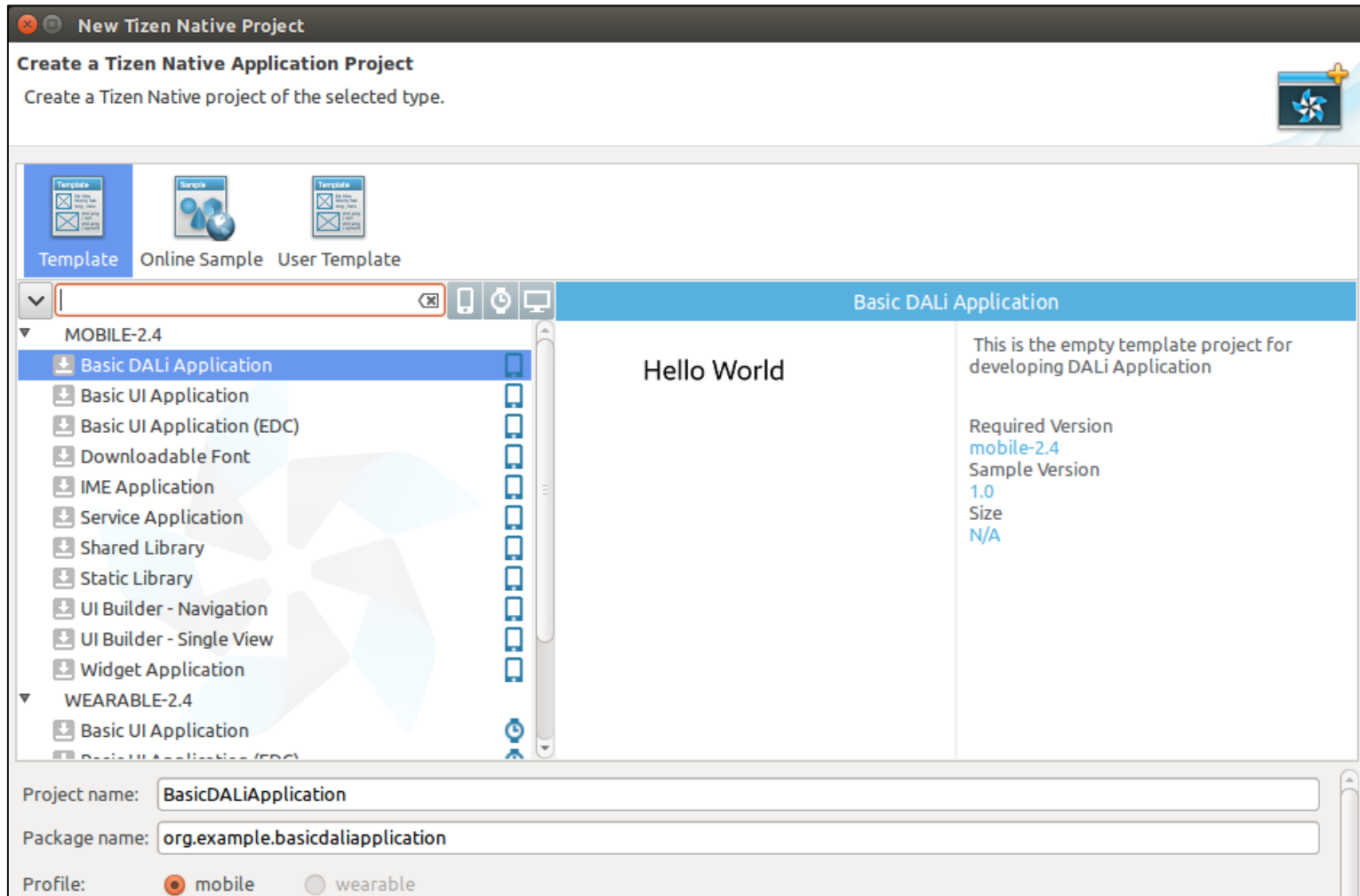
Properties



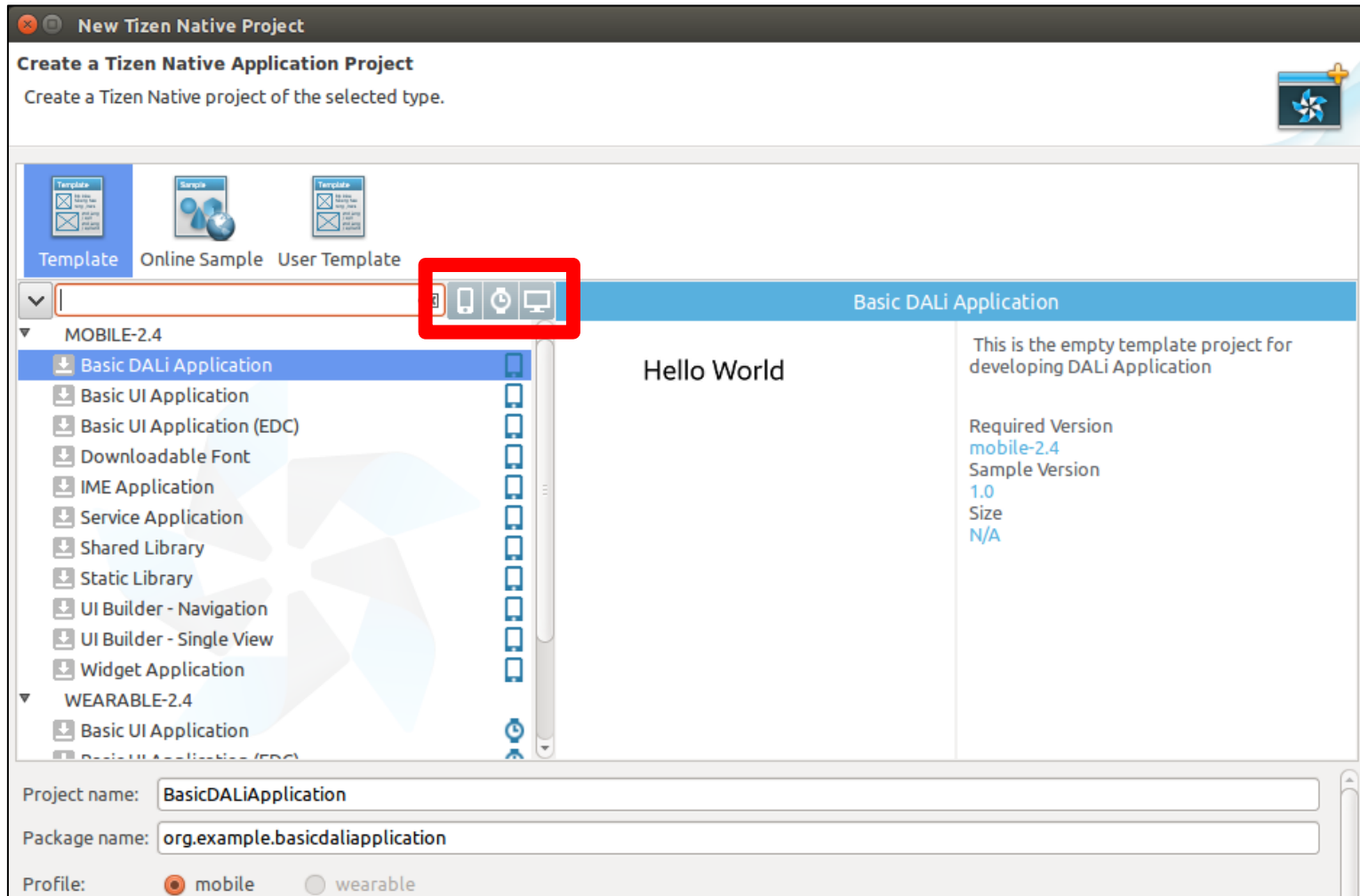
Properties are not available.



- Profile, Template 선택



- Profile, Template 선택



- Primitive UI Component 배치

Project Explorer

SOSCONProject - mobile-2.4

Ou Co Re

view1 <View>

layout.tuml

view1

Device WVGA [480X800]

49

Palette

- Buttons
- Display UI Components
- Input UI Components
- Item Container
- UI Component Container
- View Container
- Snippets

Design Preview Storyboard

Navigation Console Problems



Properties

Attributes Event

<View>

Common

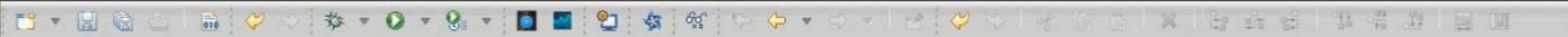
ID view1

UI Component specificat

☐ L.r ☒ True ☐ False

2. UI 디자인

- UI Container 생성, 활용



Quick Access

Tizen Web Tizen Native UI Builder

Project Explorer

SOSCONProject - mobile-2.4

Out Console Re

view1 <View>
grid1 <Grid>

*layout.tuml

view1 Device WVGA [480X800] 49

Palette

- Buttons
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Design Preview Storyboard

Properties

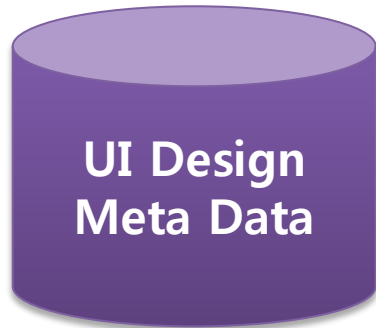
Attributes Event

No selected contents

Navigation Console Problems

*view1

- View 단위 Managed 소스코드 생성



WYSIWYG Editor

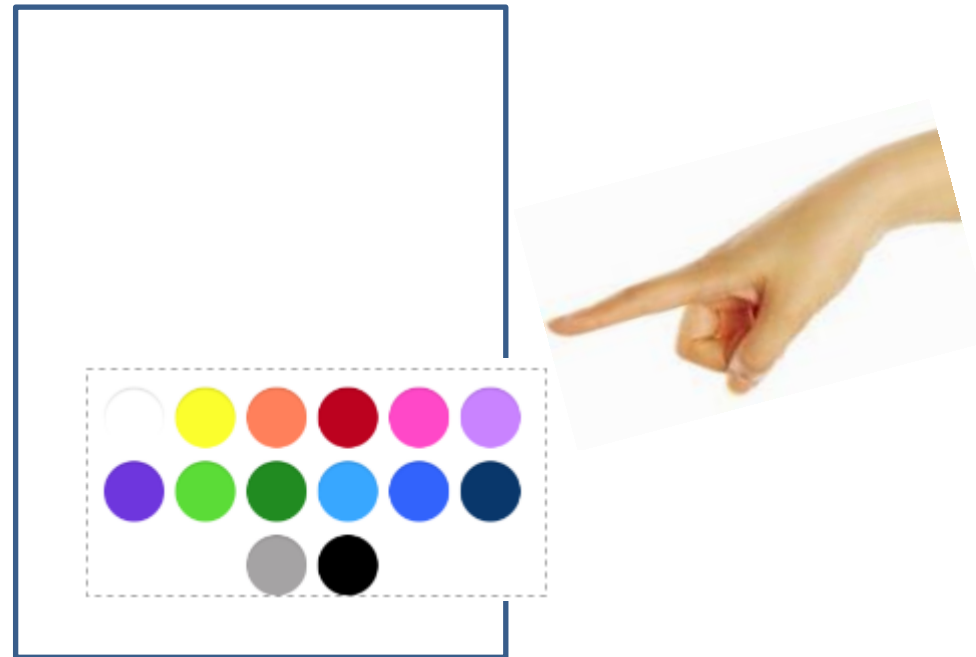
- View 단위 Managed 소스코드 생성



- View 단위 Managed 소스코드 생성



각 UI Component 마다 특정 Event 등록



Selected EVENT

Project Explorer

SOSCONProject - mobile-2.4

emulator-26101 (m-1027-1)

layout.tuml

view1 Device WVGA [480X800] 49

Palette

- Buttons
- Display UI Components
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- UI Component Container
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- Snippets

Design Preview Storyboard

Properties

Attributes Event

Navigation Console Problems

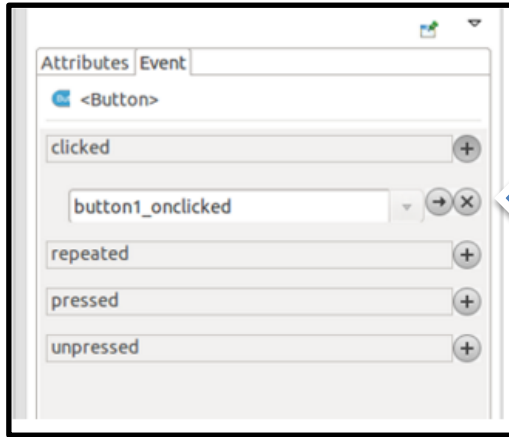
```
sosconproject [Tizen Native Application] /home/hsseo/workspace_1027/SOSCONProject/Debug/sosconproject
path is /opt/usr/apps/tmp/org.example.sosconproject-1.0.0-i386.tpk
start process (install)
...
end process (ok)
spend time for pkgcmd is [2179]ms
cmd_ret:0
  Installed the package: Id(org.example.sosconproject), Version(1.0.0)
[Running the application...]
... successfully launched
Tizen application is successfully launched.
(22.091 sec)
```

OFF

The Emulator is still running.
Only the display has been switched off.

Back Power Volume + Volume -

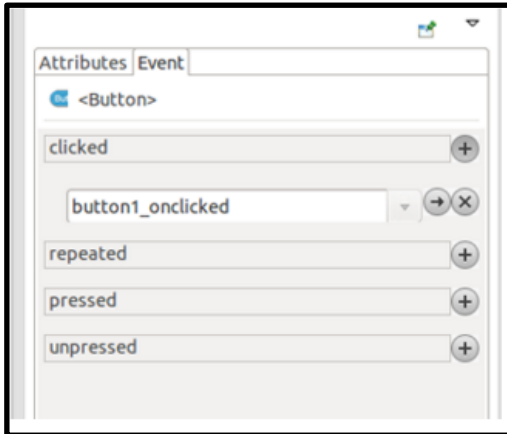
UI Component의 Event handler 연동



Click!

Properties View

UI Component의 Event handler 연동



Properties View



구현

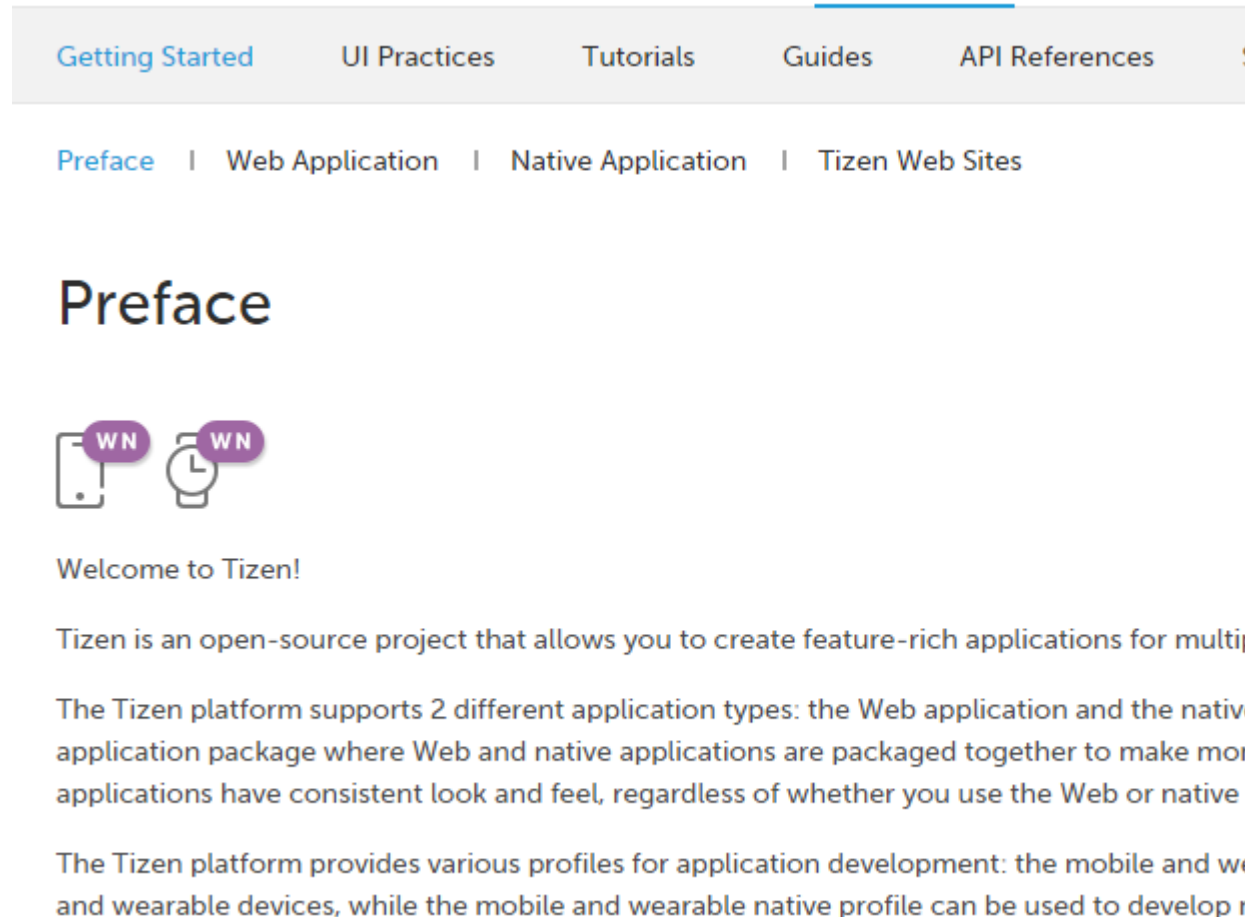
나의 TIZEN APP 개발 시작하기!

- **Development**

- Getting Started
- UI Practices
- Tutorials
- Sample
- Guides
- API References
- Tools

• Development

- Getting Started
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• Development

- Getting Started
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[Web Application](#) | [Native Application](#)

Tizen Features

[W3C/HTML5/Supplementary
Features](#)

Tizen Web Tutorials

Tizen Web tutorials teach you how to incorporate application. The tutorials cover detailed code snippets and how to write the required code in practice.

Select the feature you are interested in and see how to incorporate its various functionalities into your application:

Exploiting Tizen Features

• Development

- Getting Started
- UI Practices
- Tutorials
- **Sample**
- Guides
- API References
- Tools

[2.4](#) | [2.3.1](#) | [2.3.0](#)

[Sample Mobile Applications](#)

2.4

Welcome to Sample Applications for Tizen development.

You can see sample applications for mobile and wearable applications. The following samples are examples of techniques, common in mobile/wearable applications.

For more details, please refer to links below:

- [Sample Mobile Applications](#)

▼ NEXT [Sample Mobile Applications](#)

• Development

- Getting Started
- UI Practices
- Tutorials
- Sample
- Guides
- API References
- **Tools**

Installing the SDK



Advanced Configuration

Uninstalling the SDK

Release Notes



Download

The Tizen SDK is a comprehensive set of tools, including the Emulator, toolchain, sample code, and documentation. Tizen applications may be developed with the Tizen SDK or Tizen packaging rules.

Click the package name to download the package. Click [Release Notes](#) for more information.

Note

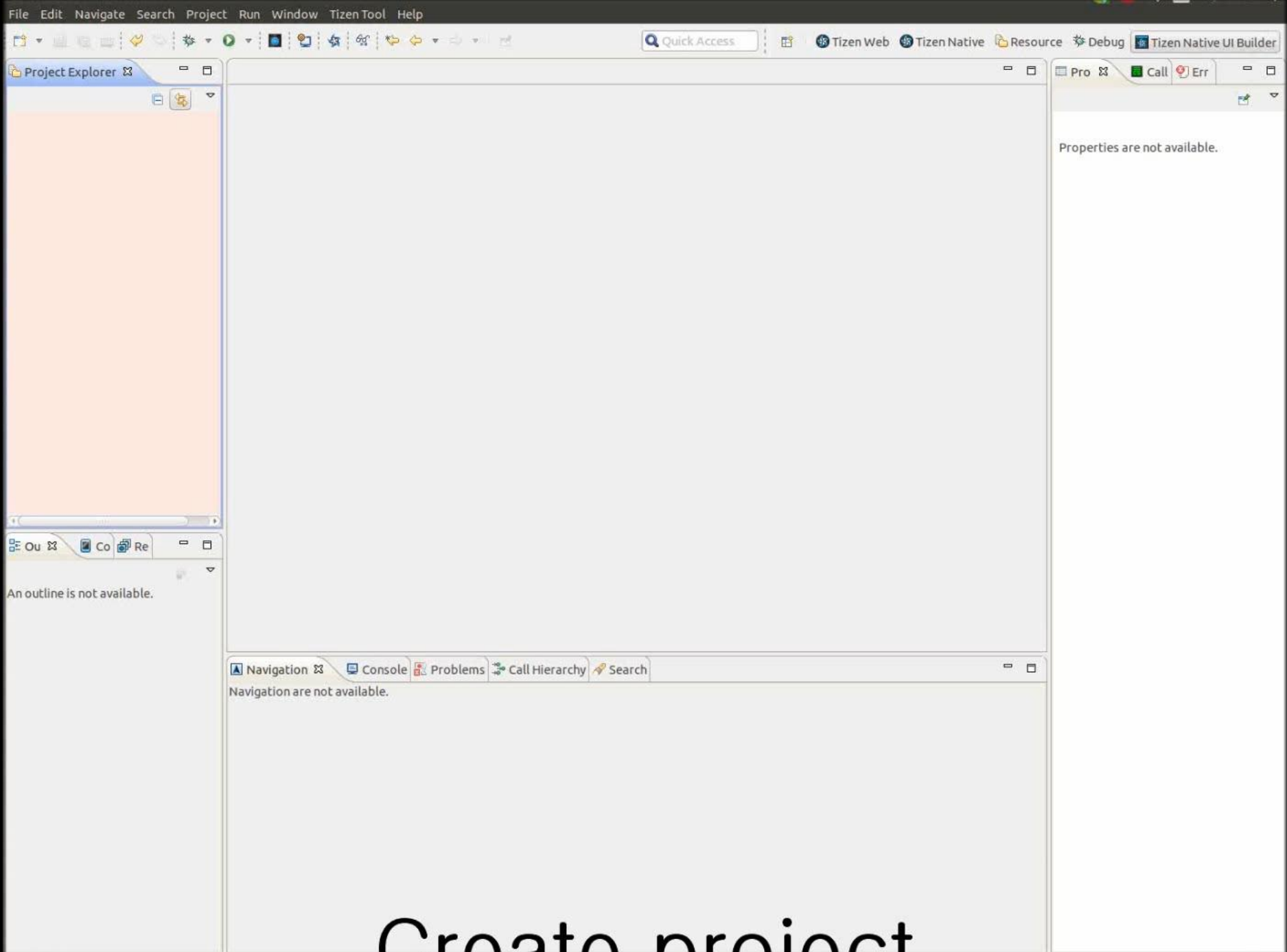
The Tizen 2.4 SDK supports the development of applications based on the Tizen 2.4 SDK. To develop an application based on the Tizen 2.4 SDK, click the package name to download the package.

- Tizen 2.4 SDK for Mobile : [2.4](#)
- Tizen 2.3.1 SDK : [2.3.1](#)

THANK YOU!

Appendix

총정리



Create project