

# Portfolio

임서연

# Unreal Engine 4 – 방탈출 게임 제작

유튜브 채널 ' 쉽게 배우는 프로그래밍 ' 님의 강좌를 참고했습니다.

## Level 1 – 단순한 방 구현, 문에 다가가면 폭발이 일어나며 문 제거

: 프로젝트 생성, 에디터 이동, 지오메트리 생성/이동/회전/크기 조절, 재질 설정, 블루프린트, 변수, 분기

## Level 2 – 방 + 4가지 색깔 힌트 + 4가지 색깔 스위치

: QuadView, 사용자 지정 재질 만들기, 레벨 블루프린트, UMG, 배열로 입력 값 저장, 디스패처 이용해 이벤트 발생, 블루프린트 클래스

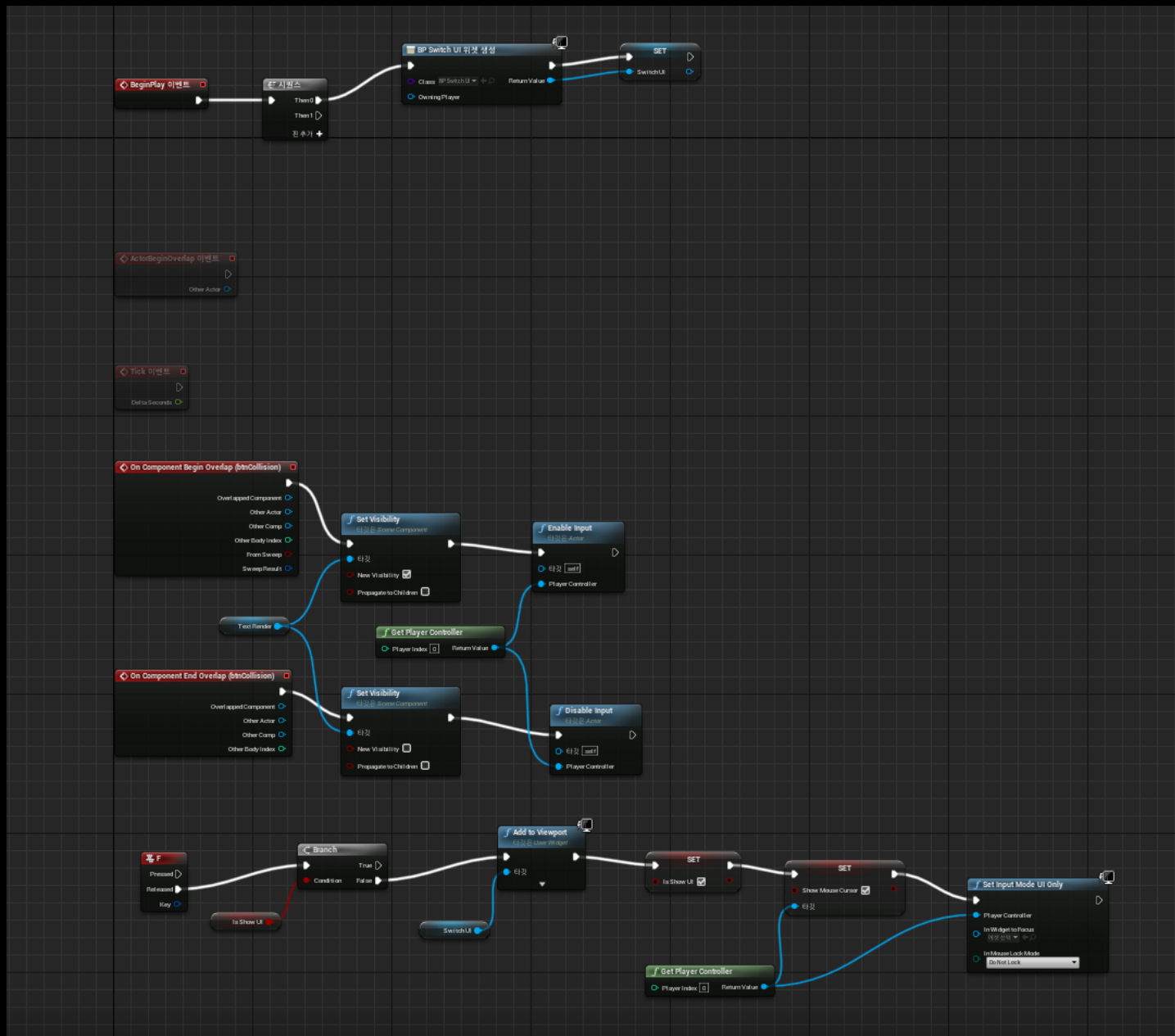
# Level 1



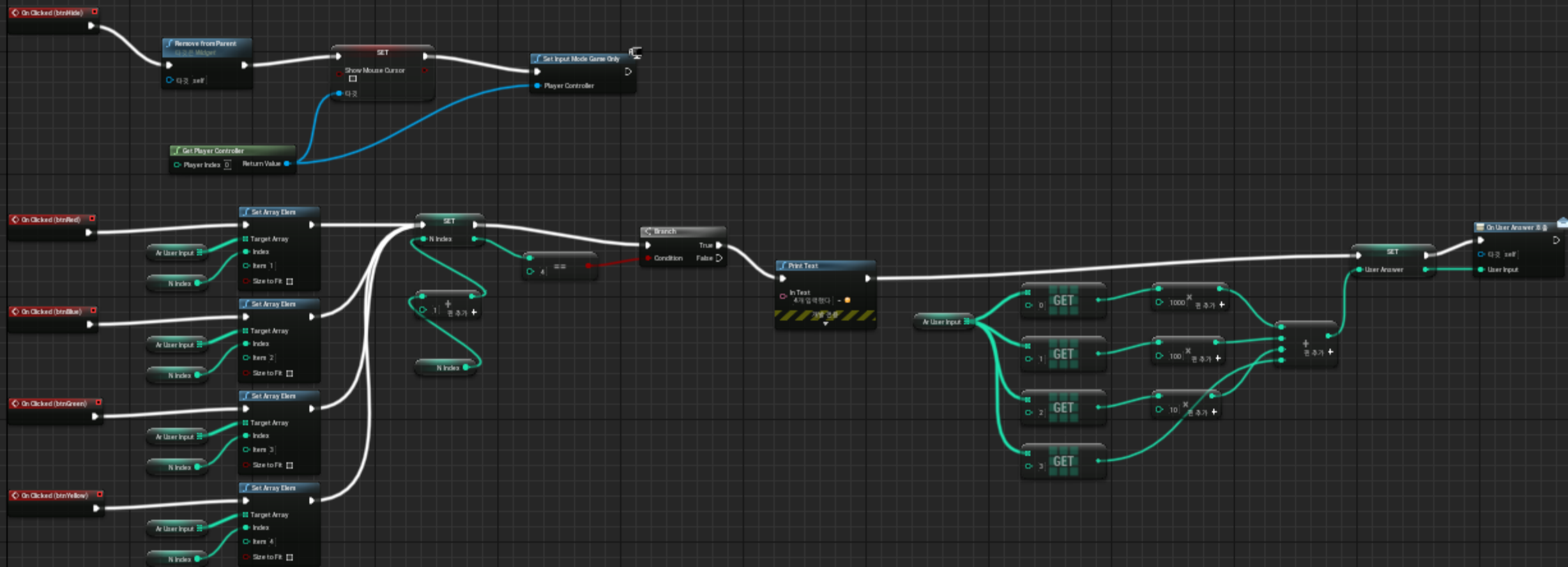
# Level 2



# BP\_4ColorSwitch (블루프린트 클래스)



# BP\_Switch\_UI (위젯 블루프린트)



# 그 외 기타 개발 프로젝트

## 1. LG webOS web app 'Self Home-Training Helper'

: 8, 9 페이지 발표 자료 첨부

## 2. 웹페이지 제작 – 포트폴리오 사이트, Momentum 클론 사이트

: [https://lsyleg.github.io/Portfolio\\_Web/](https://lsyleg.github.io/Portfolio_Web/)    [https://lsyleg.github.io/Portfolio\\_Weather/](https://lsyleg.github.io/Portfolio_Weather/)

## 3. 임베디드 프로젝트 다수

: 관련성이 떨어져 첨부는 생략하였습니다. (Google AR Glass 제작, RC카 제작 등)



# LG webOS 프로젝트 발표 자료 (1)

## Self Home-Training Helper

KIMU Team "Let's walk to India" / Jhyeon Jang, Seoyeon Lim, Hygin Oh, Yunta Cho, Ghyong Park

## Contents

- 01. Idea
- 02. Program Explanation
- 03. Architecture
- 04. WebOS Component
- 05. Differentiation from similar services
- 06. Demo video

## Idea

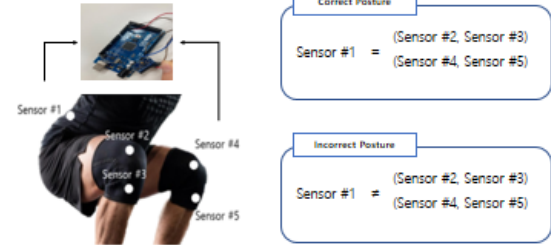


=> Demand for home training is increasing

## Idea



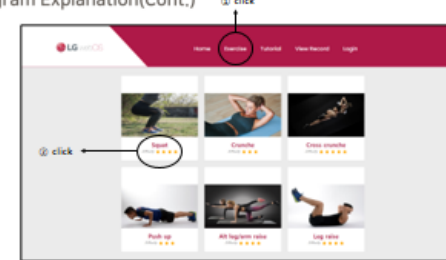
## Idea(Cont.)



## Program Explanation



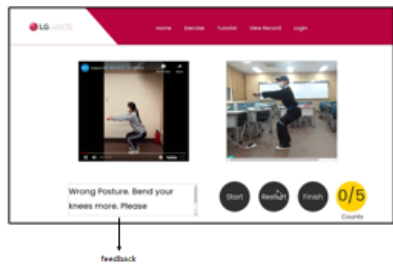
## Program Explanation(Cont.)



## Program Explanation(Cont.)



## Program Explanation(Cont.)



## Program Explanation(Cont.)



## Architecture

- System Configuration Diagram



## Architecture(Cont.)

- System Flowchart





# LG webOS 프로젝트 발표 자료 (2)

## Architecture(Cont.)

- Sensor measurement algorithm for Squat



LG webOS

## Webos component



- We created webapp and JS service using CLI commands.
- Users use the service through webOS webapp based on web engine.
- We use Kakao Pose API to calculate the reference value from the video input from users.
- The server communicates via Websocket with JavaScript on webOS.

LG webOS

## Differentiation from similar services

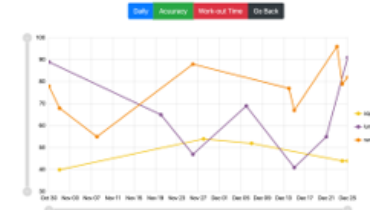
1. Provides work-out record analysis



LG webOS

## Differentiation from similar services(Cont.)

1. Provides work-out record analysis



LG webOS

## Differentiation from similar services(Cont.)

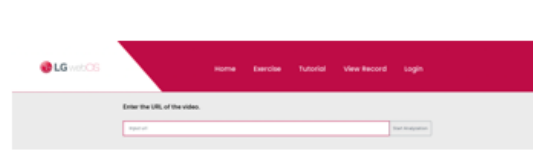
1. Provides work-out record analysis



LG webOS

## Differentiation from similar services(Cont.)

2. Add the work-out users want



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## Differentiation from similar services(Cont.)

1. Provides work-out record analysis



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## Differentiation from similar services(Cont.)

2. Add the work-out users want



LG webOS

Thank you

KNU Team "Let's walk to India" / Jihyeon Jang, Seoyeon Lim, Hyejin Ok, Yunha Cho, Gihong Park

**Thank You**  
검토해 주셔서 감사합니다