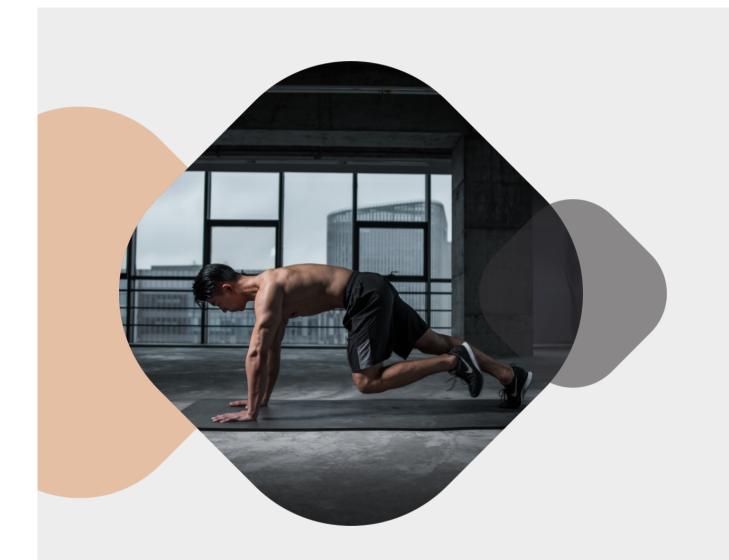
BSDP のpensource final project opensource final project altria, altri

김찬형 김하람 민찬호 윤세준

오픈소스 3분반 5조



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01. TEAM ROLE



김찬형

Main Code Implementation
Interface Code Implementation



김하람

Interface XD Design
Interface Code Implementation



민찬호

Main Code Implementation Icon Design



윤세준

Reference Research Interface Code Implementation

02. OUR PROGRAM, BSDP



BSDP

Your Health Partner

INTRODUCTION:

Automatic exercise measurement and accuracy feed back program of BDS for health workers.

• Function :

- Present recommended exercise for beginners
- Correct exercise posture by checking user's exercise posture error
- Measure the number of wrong exercise pose
- Notify exercise accuracy

03. WHICH OPENSOURCE



Numpy

WHAT: Python libraries that help facilitate processing for matrices or large multidimensional arrays in general.

HOW: Make the coordinates of each node in to a numpy arrangement and calculate the angel using an arctangent.

LICENSE: Apache License 2.0



OpenCV

WHAT: A programming library aimed at real-time computer vision

HOW: Visualize data received from webcam in connection with mediapipe.

LICENSE: modified BSD License



Mediapipe_pose

WHAT: Libraries that provide solutions for live and streaming media.

HOW: Get the coordinate value of the node and use the learned pose data.

LICENSE: modified BSD License



PyQt5

WHAT: Framework that allows you to create a GUI program by connecting Python's code to the layout of Qt.

HOW: Interface design and connection between interface code functions.

LICENSE: GPL 3.0 or the RiverBank Comercial License

04. OUR OPENSOURCE LICENSE



[Requirements]

- 1. License and copyright statements.
- 2. State the changes.

[Additional explanation]

Established by the Apache Software Foun dation. No obligation to disclose the sourc e code. However, the use of the Apache li cense should be revealed. More relaxed t han BSD.

[Possible activities]

- 1. Commercial use.
- 2. Distribute and editable.
- 3. Patent application, private use.
- 4. 2nd license is available.

[Duties to reveal the source code] NO

[Constraints] LOW

04. OUR OPENSOURCE LICENSE



Modified BSD License

[Requirements]

License and copyright statements.

[Additional explanation]

Enacted by the University of California, B erkeley. BSD itself is made by public institutions, so the intention of public return is strong, so it is a free license that can be u sed without any restrictions except for copyright and license specification.

[Possible activities]

- 1. Commercial use.
- 2. Distribute and editable.
- 3. Patent application, private use.

[Duties to reveal the source code] NO

[Constraints]

04. OUR OPENSOURCE LICENSE



GPL

[Requirements]

- 1. Both the modified source code and the software using the GPL source co de are disclosed through GPL.
- 2. State licenses and copyrights.
- 3. State the changes.

[Additional explanation]

Enacted by the Free Software Foundation Source codes need not be disclosed on ly for personal and internal use when de veloping using GPL licenses, but the entire source code of the software must be disclosed when distributed externally. (3.0 version can be used like an Apache license)

[Possible activities]

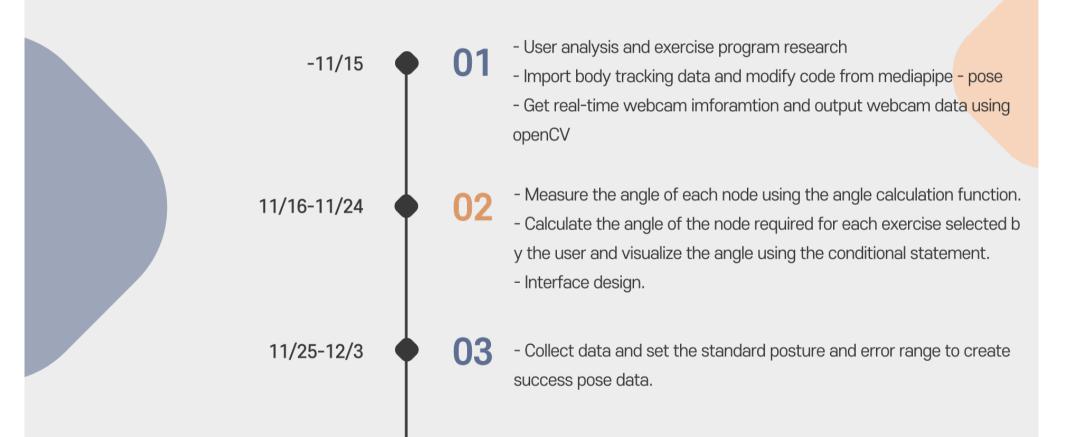
- 1. Commercial use.
- 2. Distribute and editable.
- 3. Patent application, private use.

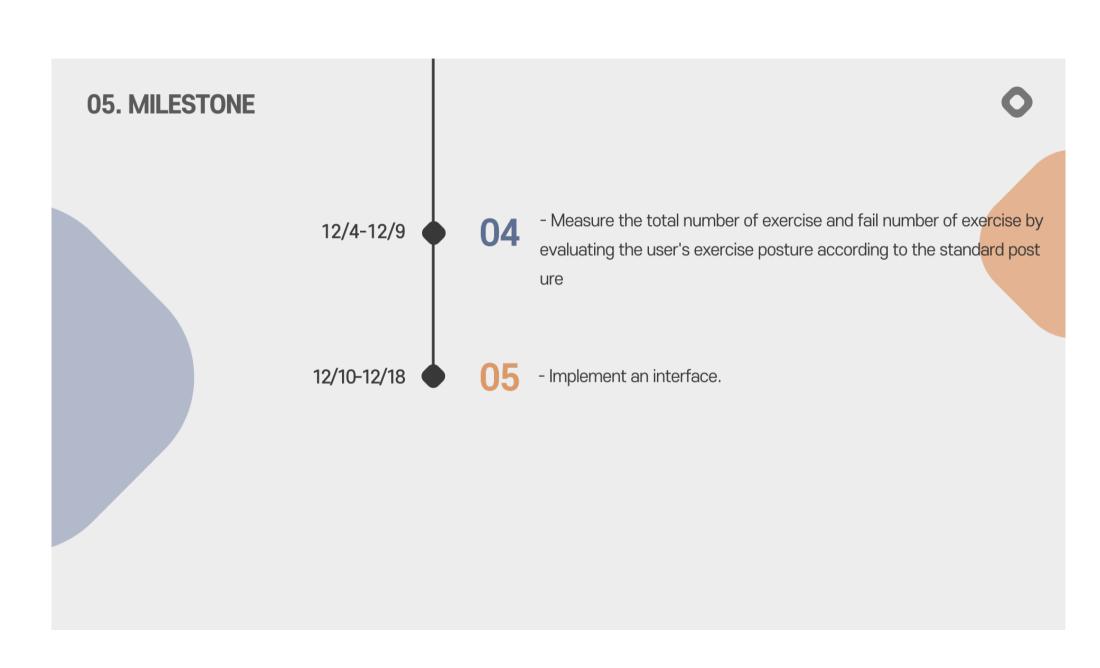
[Duties to reveal the source code] YES

[Constraints] HIGH

05. MILESTONE







06. DEMO VIDEO

FINAL DEMOVIDEO

