“BoneXplore” Application

10cm

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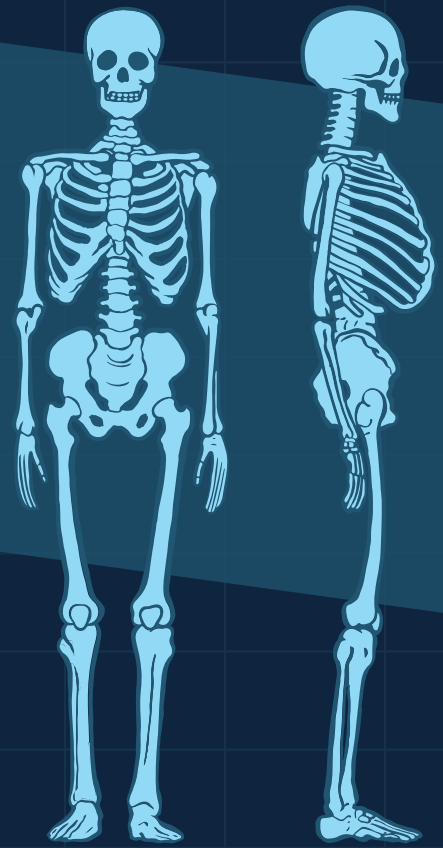
Introduction



BoneXplore is an application that has a wearable gloves that consist of position tracking sensors or motion sensors.

The gloves connect wirelessly to a smartphone via Bluetooth to provide real-time data to the application about hand movement or gestures and it also capable on providing definition.

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Iot Devices and Technology

Bluetooth Modules

Use to enable wireless communication with a smartphone or tablet. They facilitate the transmission of real-time data about hand movements or gestures to an application.

Sensors

Inertial Measurement Units (IMUs): useful for tracking hand movement and speed.

Haptic Feedback Devices

These devices provide tactile feedback (vibrations) to the user. They are commonly integrated into smart gloves to offer haptic responses when certain actions or gestures are recognized by the system.

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03

Key Features

BoneXplore

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1. It can provide the definition of the skeletal body part touched by the users.
2.This application is user-friendly.
3. It has Bluetooth modules that enable wireless communication.
4. It has a wearable gloves consist of sensors that captures real-time motion data for tracking hand gestures.
5. It has Haptic Feedback Devices that provides vibration or force feedback to the gloves when certain actions or gestures are recognized by the system.
6. It enables wireless connectivity.
7. It provide virtual skeletal body on the screen that mirrors real-time movement of the use’s hand.

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APPLICATION USER INTERFACE

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Log In form

Registration form for new user

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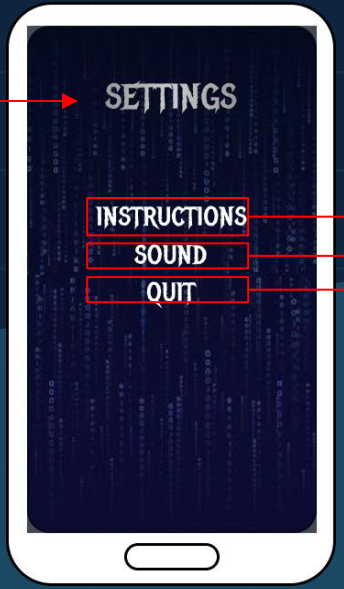
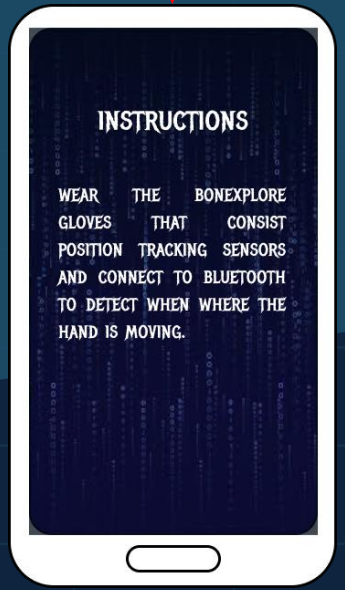
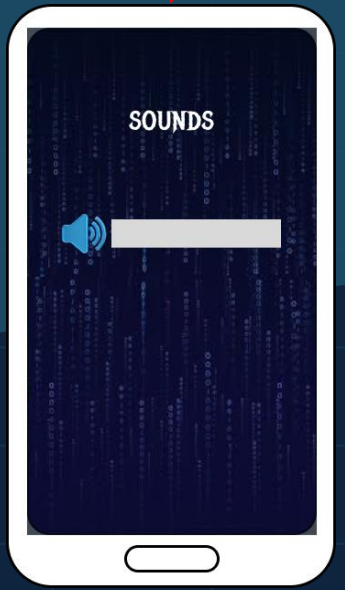
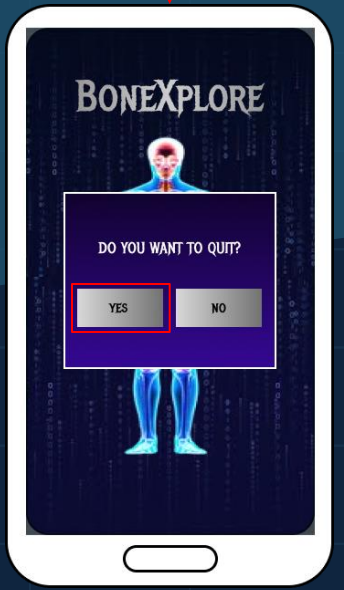
BONEXPLORE
TURN ON BLUETOOTH AND CONNECT TO BONEXPLORE GLOVES


SETTINGS
INSTRUCTIONS
SOUND
QUIT


INSTRUCTIONS
WEAR THE BONEXPLORE GLOVES THAT CONSIST POSITION TRACKING SENSORS AND CONNECT TO BLUETOOTH TO DETECT WHEN WHERE THE HAND IS MOVING.


SOUNDS


BONEXPLORE
DO YOU WANT TO QUIT?
YES
NO

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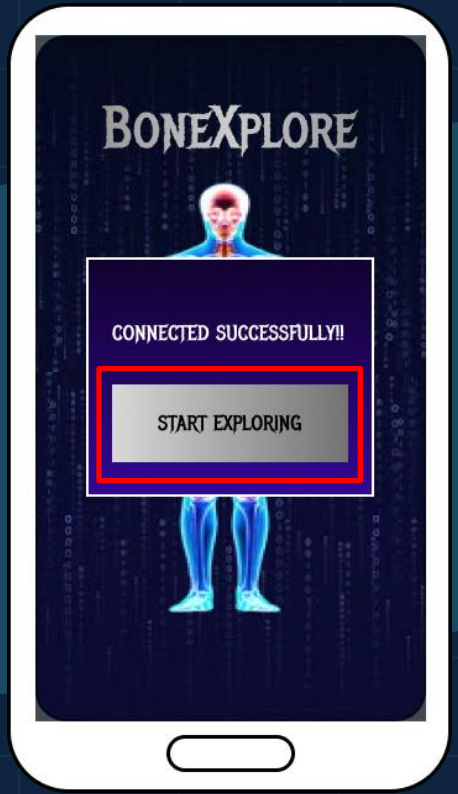
Once it has been connected to Bluetooth click on start exploring



BoneXplore provide virtual skeletal body on the screen that mirrors real-time movement of the use's hand.

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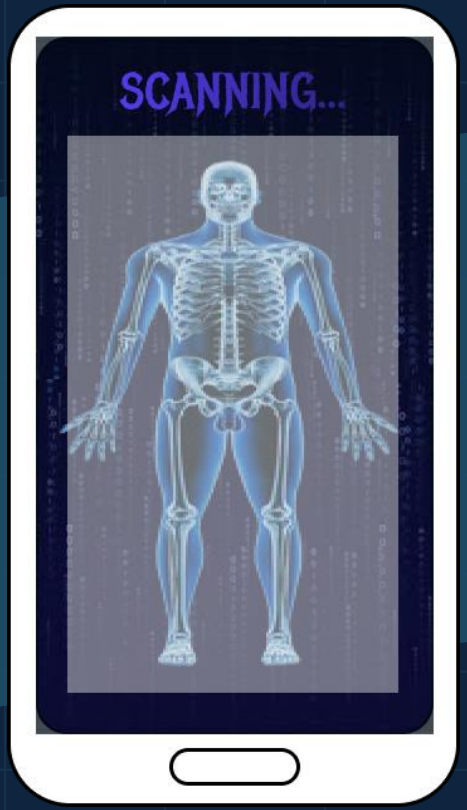
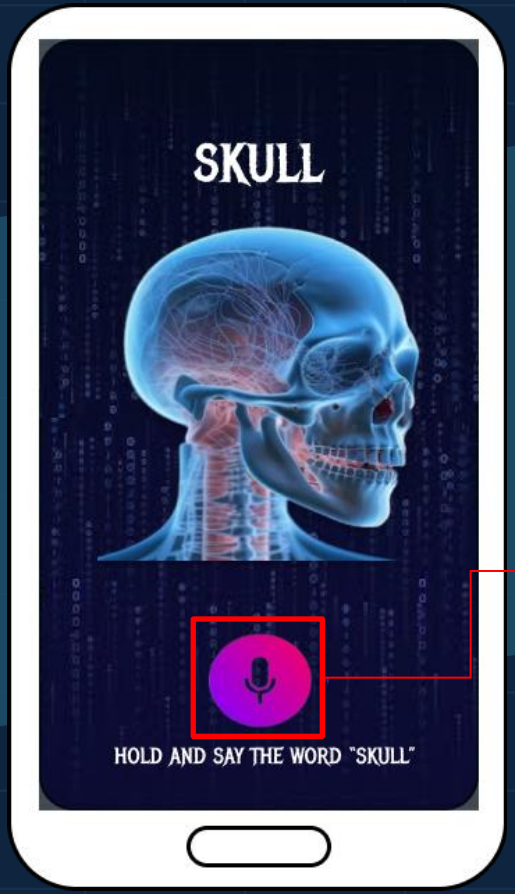
Once you have touched a part of the body, it will start scanning





When you feel the gloves vibrate, it means there is already a result

If you want to define the specific parts just hold the microphone and say the word above the image.

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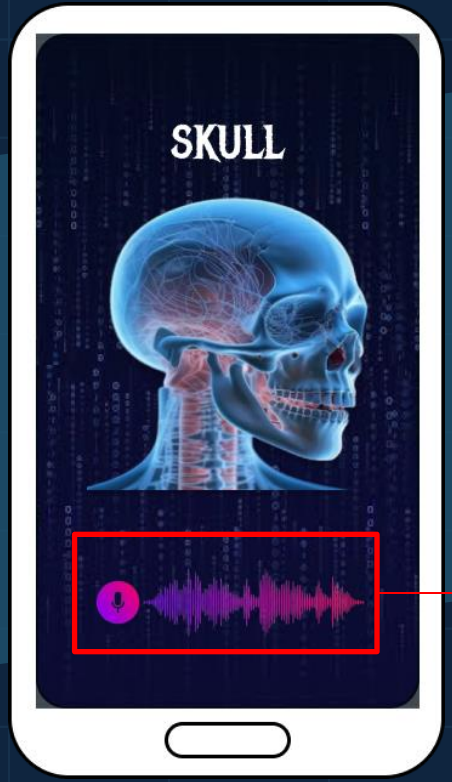
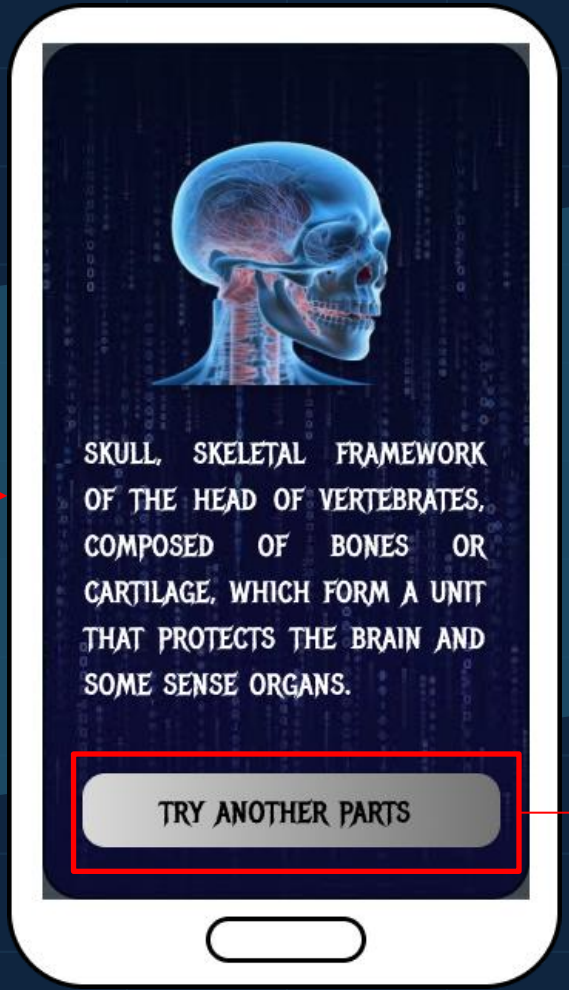
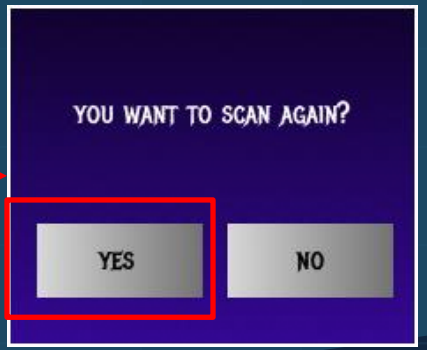
The BoneXplore app will start analyzing the word







Click on yes if you want to try again, No if not.

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THANKYOU!!

FIGMA: https://www.figma.com/design/bJR65Ky1BQkb7zRlxz3NXm/Untitled?node-id=0-1&t=LUOveNc6O2OnZC6R-1

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