



TRYSHIRT

VIRTUAL SHIRT TRY-ON APPLICATION IS SOLUTION DESIGNED TO ENABLE USERS TO VIRTUALLY TRY ON DIFFERENT SHIRTS WITHOUT PHYSICALLY WEARING THEM. LEVERAGING COMPUTER VISION AND IMAGE PROCESSING TECHNIQUES, THE APPLICATION WILL ALLOW USERS TO TRY SHIRT FOR THEMSELVES, GET SHIRT SIZE AND TRY VARIOUS SHIRT DESIGNS ONTO THEIR VIRTUAL REPRESENTATION. THIS WILL PROVIDE AN INTERACTIVE AND CONVENIENT WAY FOR USERS TO VISUALIZE HOW DIFFERENT SHIRTS WOULD LOOK ON THEM, THEREBY ENHANCING THEIR ONLINE SHOPPING EXPERIENCE AND FACILITATING INFORMED PURCHASE DECISIONS.

INTELLIGENT SYSTEM
PROF. JESSIE C. ALAMIL



TRYSHIRT

VIRTUAL SHIRT SYSTEM MANUAL



Macaraeg, Jasper D.
BSCS 4A

TECHSTACK OF THIS PROJECT

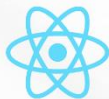


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WHAT IS TRYSHIRT?

VIRTUAL SHIRT TRY-ON APPLICATION IS SOLUTION DESIGNED TO ENABLE USERS TO VIRTUALLY TRY ON DIFFERENT SHIRTS WITHOUT PHYSICALLY WEARING THEM. LEVERAGING COMPUTER VISION AND IMAGE PROCESSING TECHNIQUES, THE APPLICATION WILL ALLOW USERS TO TRY SHIRT FOR THEMSELVES, GET SHIRT SIZE AND TRY VARIOUS SHIRT DESIGNS ONTO THEIR VIRTUAL REPRESENTATION. THIS WILL PROVIDE AN INTERACTIVE AND CONVENIENT WAY FOR USERS TO VISUALIZE HOW DIFFERENT SHIRTS WOULD LOOK ON THEM, THEREBY ENHANCING THEIR ONLINE SHOPPING EXPERIENCE AND FACILITATING INFORMED PURCHASE DECISIONS.

HARDWARE AND SOFTWARE SPECIFICATIONS

HARDWARE SPECIFICATIONS

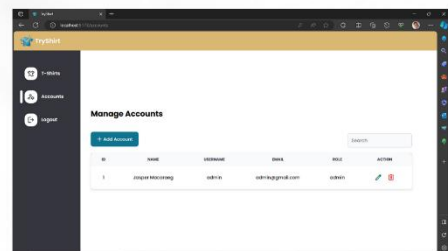
ODSCN WEBCAM 2K/ 1080P/ 720P FULL HD VIDEO CALL
FOR PC LAPTOP WITH MICROPHONE HOME USB VIDEO
WEBCAM
MODEL: WEBCAM

NOTE: ABOVE IS THE CAMERA THAT I USE IN THIS PROJECT.
YOU CAN USE ANY KIND OF WEBCAM OR BUILT IN CAMERA
TO YOUR LAPTOP OR COMPUTER

SOFTWARE SPECIFICATIONS

NODE.JS - V20.10.0
PYTHON VERSION - 3.11.3
OPENCV-PYTHON - 4.8.0.76
CVZONE - 1.6.1
MEDIAPIPE - 0.10.7
MATPLOTLIB - 3.8.0
PILLOW - 10.1.0
WHEEL - 0.38.4
NUMPY - 1.26.1

HOW TO MODIFY ACCOUNTS?

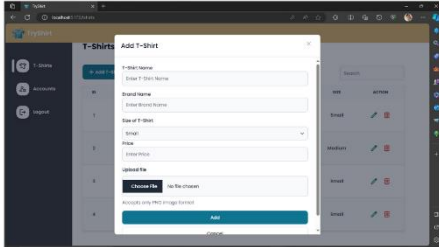


IN THIS SECTION YOU CAN MANAGE THE ACCOUNT OF THE ADMIN AND STAFF.

YOU CAN MODIFY ACCOUNT BY CLICKING THE EDIT PENCIL ICON AND DELETE FOR ACCOUNT DELETION

HOW TO UPLOAD TSHIRT IN ADMIN PAGE?

Step 3

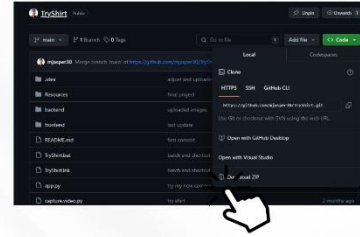


IT POPS UP THE MODAL THAT YOU CAN ADD T-SHIRT. ONCE DONE CLICK ADD.

IN THIS TRYSHIRT SYSTEM IT HAS CRUD FUNCTIONALITY. SO YOU CAN ADD, EDIT, AND DELETE T-SHIRTS. IT ONLY ACCEPTS PNG FORMAT FOR UPLOADING T-SHIRTS. MAKE SURE THE BACKGROUND IS TRANSPARENT BACKGROUND OF THE T-SHIRT YOU ARE UPLOADING

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HOW TO DOWNLOAD TRYSHIRT SYSTEM?



Step 1

First go to my repository in my Github
<https://github.com/mjasper30/TryShirts.git>

Step 2

Click **Download Zip** or using this command in terminal **git clone**
<https://github.com/mjasper30/TryShirts.git> to download the project

Step 3

Install **Node.js** and **Python** in your computer.
<https://nodejs.org/en - latest>
<https://www.python.org/ - 3.11.3 to latest>

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HOW TO TRY T-SHIRTS?

To try t-shirt you will use the left and right button of the virtual tryshirt screen. You can raise your hand on the button to try other shirts. Wait until it make the full circle to green.



AS YOU CAN SEE IT CHANGES THE T-SHIRT ONCE YOU RAISE YOUR HAND ON THE BUTTON. YOU CAN NEXT AND CHECK PREVIOUS TO TRY OTHER T-SHIRTS AVAILABLE

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HOW TO INSTALL AND RUN TRYSHIRT SYSTEM?

Step 1

Open the project folder of TryShirts in **Visual Studio Code**.

Step 2

In Visual Studio Code, Open terminal by **CTRL + `** (to open terminal)

Step 3

In terminal, type this command to install **frontend** dependencies.

Type **cd frontend** (to change directory)

Then type **npm install**

After installation run frontend by typing **npm run dev**.

Click the <http://localhost:5173/> to open the system

Step 4

Create new terminal for backend, **CTRL + Shift + `**. In terminal, type this command to install **backend** dependencies.

Type **cd backend** (to change directory)

Then type **npm install**

After installation run backend by typing **npm start**

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HOW TO IMPORT THE DATABASE?



Step 1

Create database name **tryshirt** then click create button



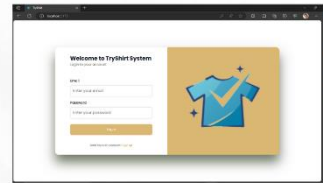
Step 2

Import the database in **localhost/phpmyadmin**. The database is found in the database folder in TryShirt Project you just downloaded.

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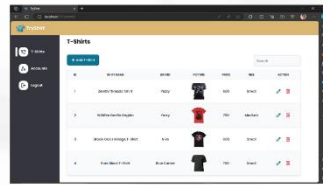
HOW TO UPLOAD TSHIRT IN ADMIN PAGE?

Step 1



LOGIN TO ADMIN PAGE, BY TYPING
EMAIL: ADMIN@GMAIL.COM
PASSWORD: ADMIN

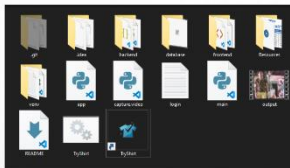
Step 2



YOU CAN ADD T-SHIRTS BY CLICKING THE ADD T-SHIRT BUTTON

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HOW TO USE TRYSHIRT SYSTEM?



Step 1

Go to TryShirt folder click this TryShirt Logo to run the TryShirt Desktop App



Step 2

As you can see it shows shirt place on the user. It also detects the shirt size of the user

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HOW TO KNOW MY SHIRT SIZE?

Distance yourself to the camera, For about **6ft** from camera to your chest to get your shirt size accurate. To make this accurate you can place **line** between the webcam to the user.



RESULT



YOU CAN SEE YOUR SHIRT SIZE ON THE TOP LEFT CORNER OF THE SCREEN

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