

# TRYSHIRT

## VIRTUAL SHIRT SYSTEM

### MANUAL



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BSCS 4A

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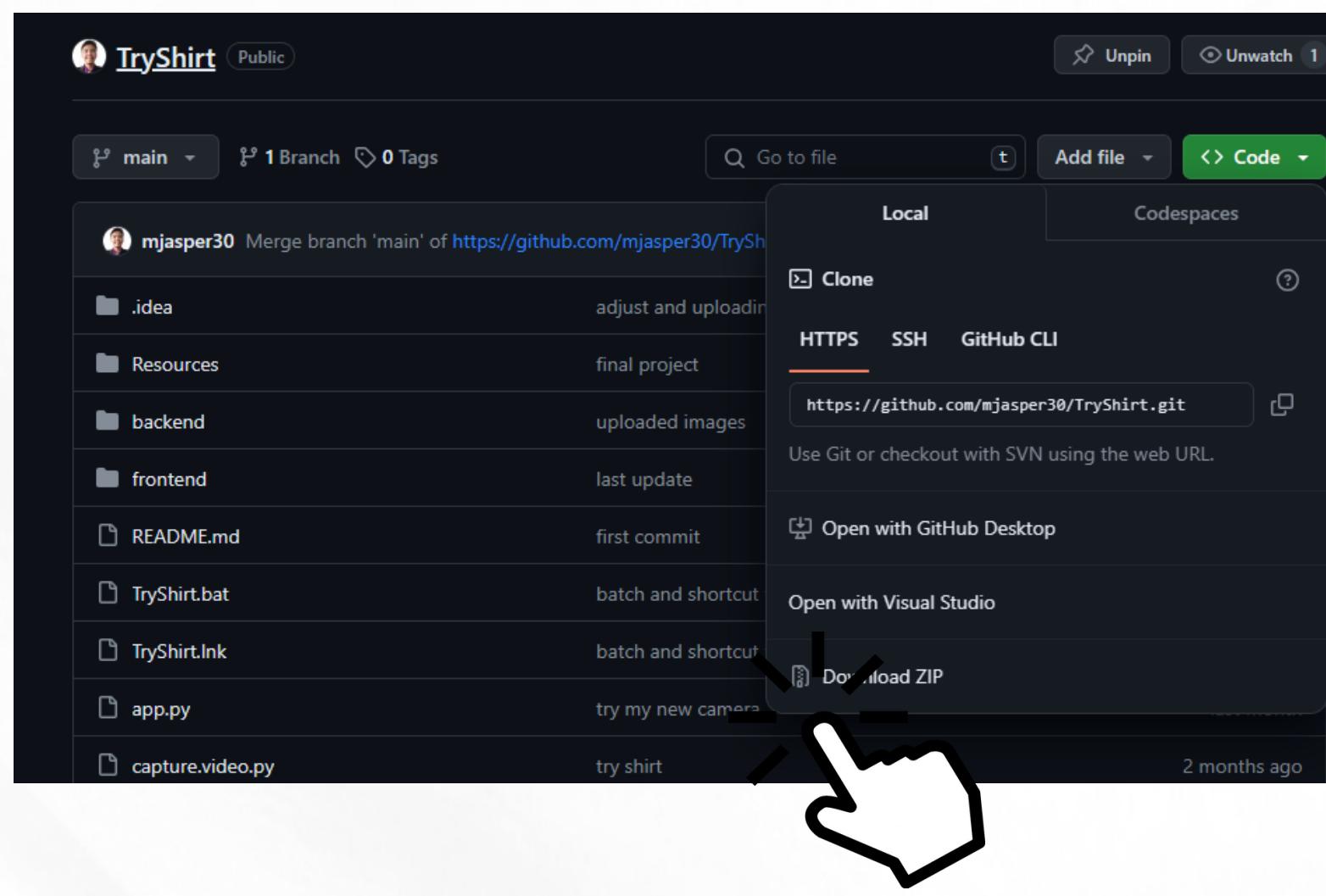
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## WHAT IS TRYSHIRT?

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.

## HOW TO DOWNLOAD TRYSHIRT SYSTEM?



### Step 1

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

### Step 2

Click Download Zip or using this command in terminal `git clone https://github.com/mjasper30/TryShirt.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

## HOW TO IMPORT THE DATABASE?

The screenshot shows the 'Databases' section of the phpMyAdmin interface. A 'Create database' button is highlighted. In the input field, 'tryshirt' is typed, and in the dropdown menu, 'utf8mb4\_general\_ci' is selected. A 'Create' button is visible at the bottom right.

### Step 1

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

The screenshot shows the 'Import' section of the phpMyAdmin interface. A 'File to import:' input field contains 'tryshirt.sql'. Below it, there's a note about compressed files and a 'Choose File' button. A message says 'You may also drag and drop a file on any page.' At the bottom, the character set is set to 'utf-8'.

### Step 2

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

## HOW TO INSTALL AND RUN TRYSHIRT SYSTEM?

### Step 1

Open the project folder of TryShirt 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 + `**.

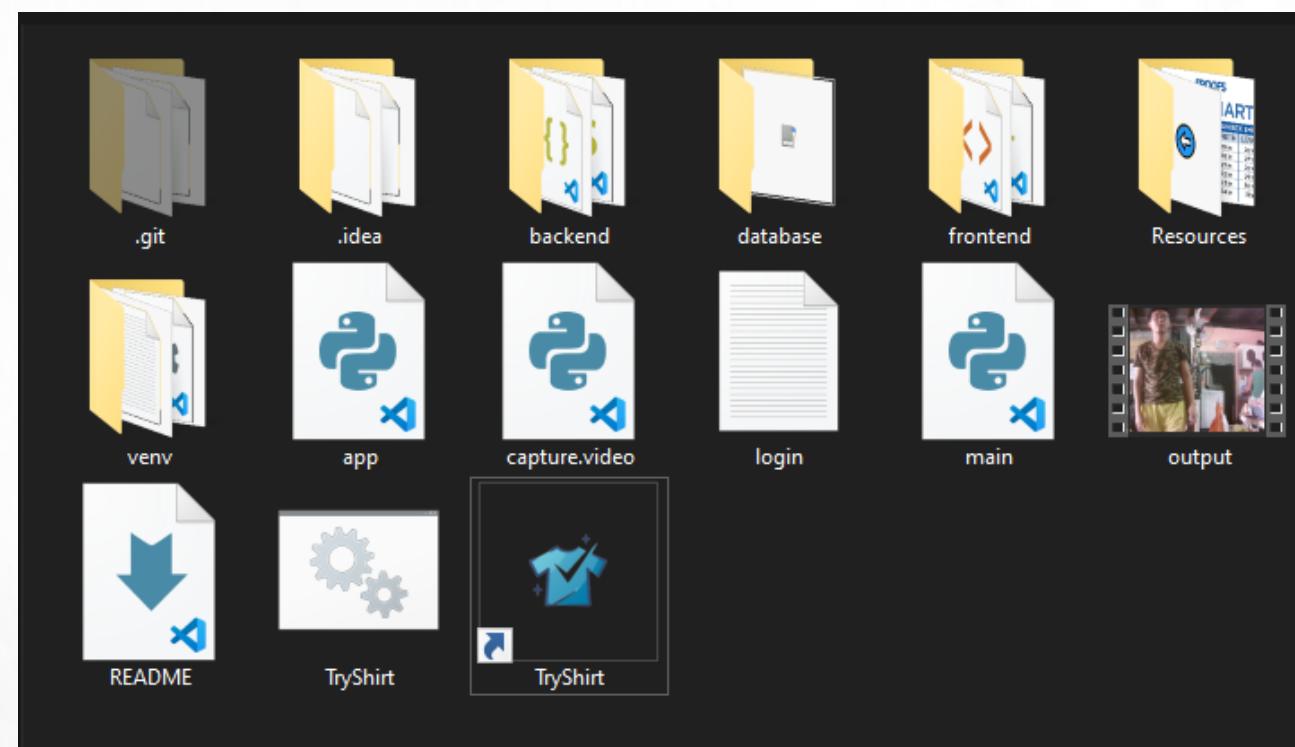
In terminal, type this command to install **backend** dependencies.

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

Then type **npm install**

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

## HOW TO USE TRYSHIRT SYSTEM?



### Step 1

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

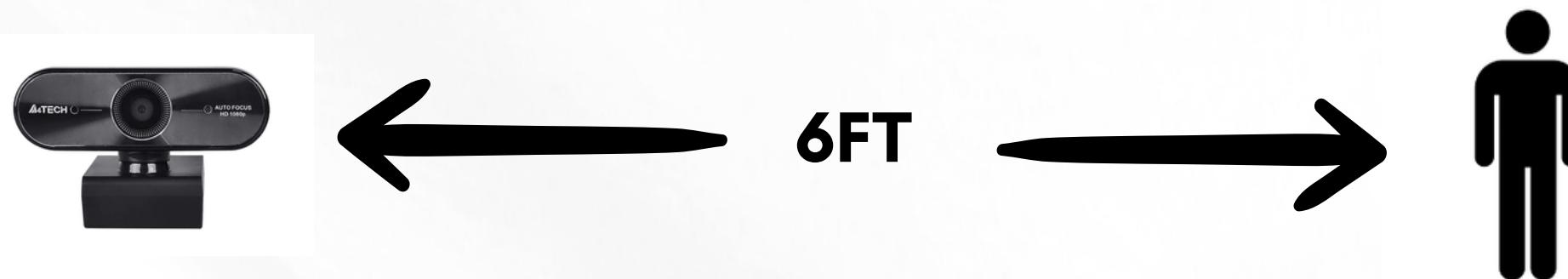


### Step 2

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

## 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

## HOW TO TRY T-SHIRTS?

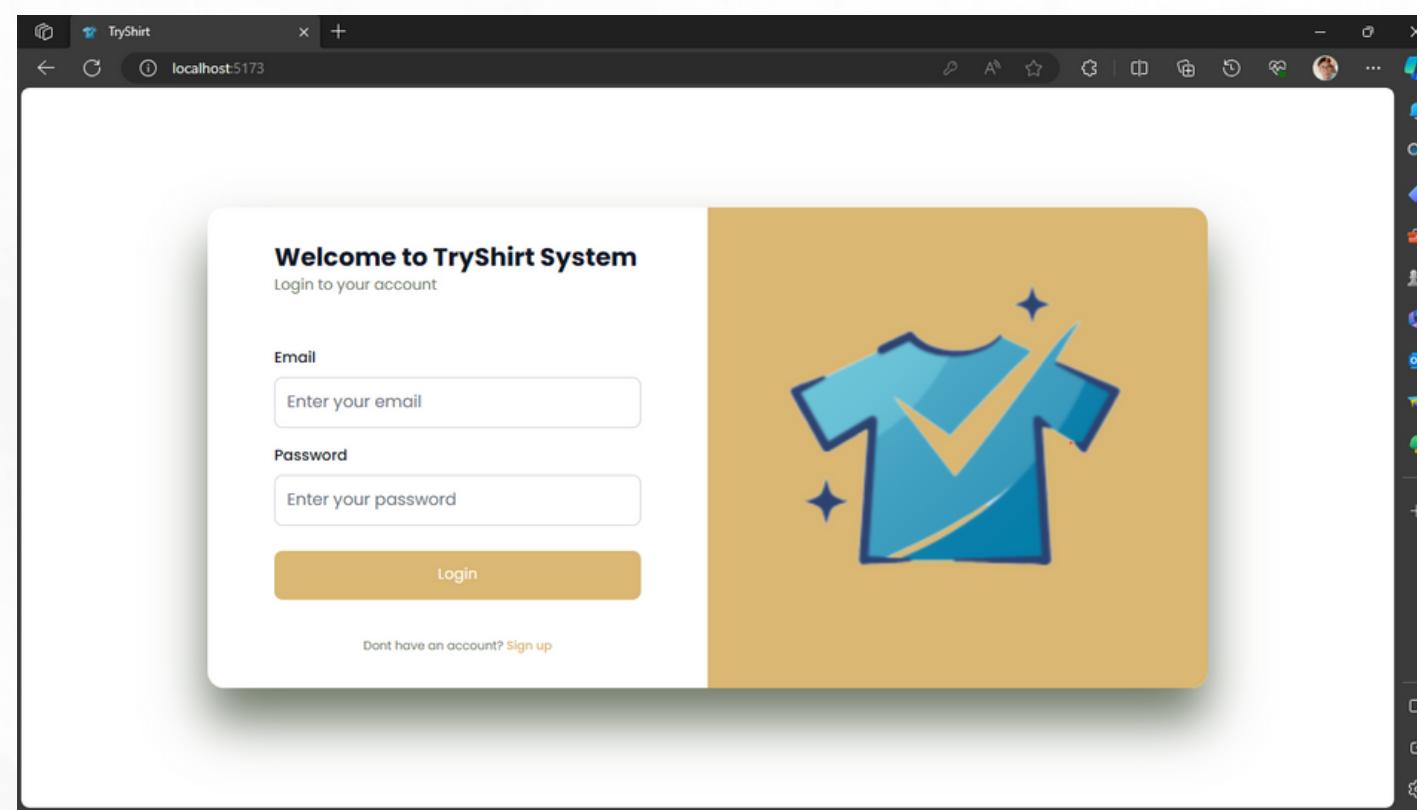
To try t-shirt you will use the left and right button of the virtual tryshirt screen. You can raise your hand on the button to try other shirts. Wait until it make the full circle to green.



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

## HOW TO UPLOAD TSHIRT IN ADMIN PAGE?

### Step 1



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

### Step 2

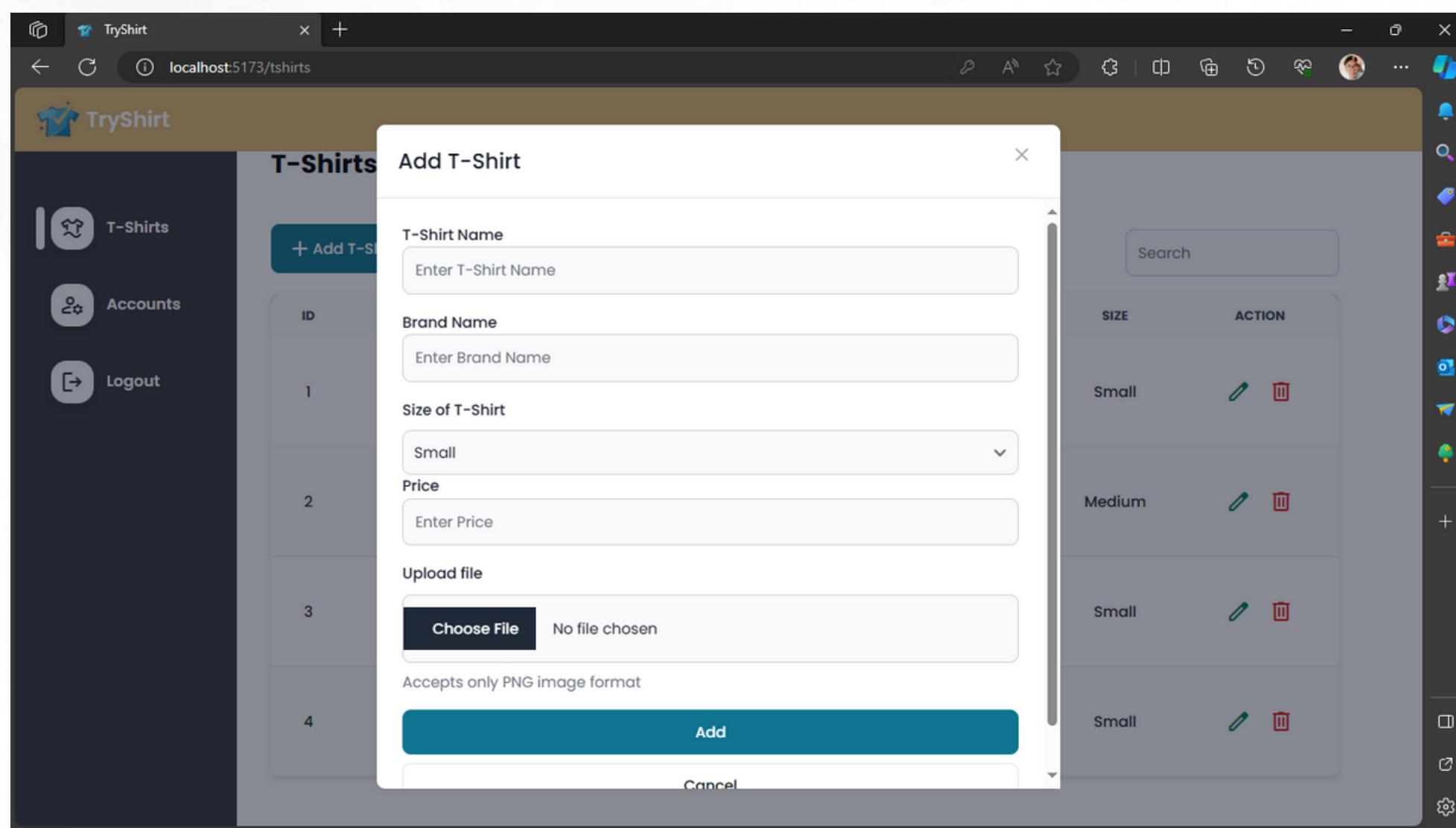
A screenshot of the 'T-Shirts' management page. It shows a table with four rows of t-shirt data. Each row includes a preview image, ID, shirt name, brand, price, size, and action buttons for edit and delete.

ID	SHIRT NAME	BRAND	PICTURE	PRICE	SIZE	ACTION
1	Zenith Threads Tshirt	Yezzy		500	Small	
2	Wildfire Gorilla Raglan	Yezzy		700	Medium	
3	Urban Oasis Mirage T-Shirt	Nike		600	Small	
4	Pure Black T-Shirt	Blue Corner		700	Small	

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

## HOW TO UPLOAD TSHIRT IN ADMIN PAGE?

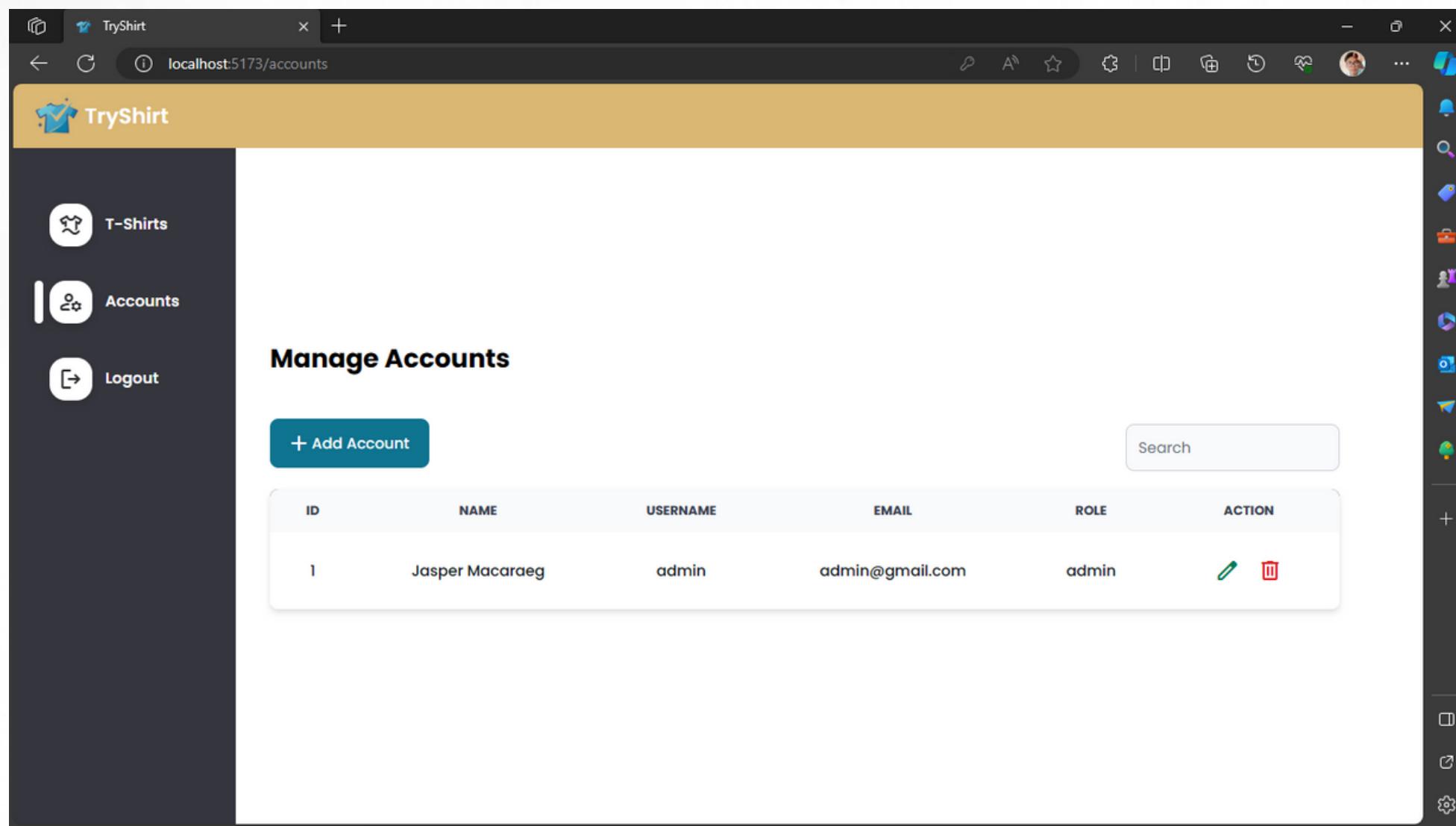
### Step 3



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

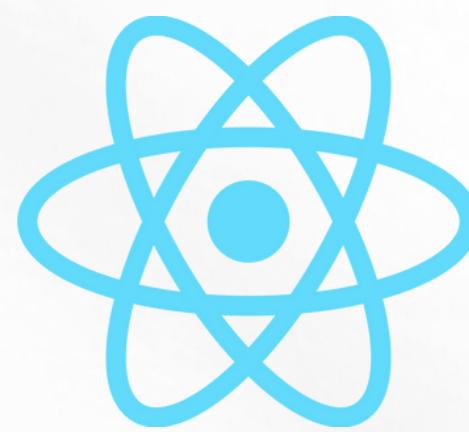
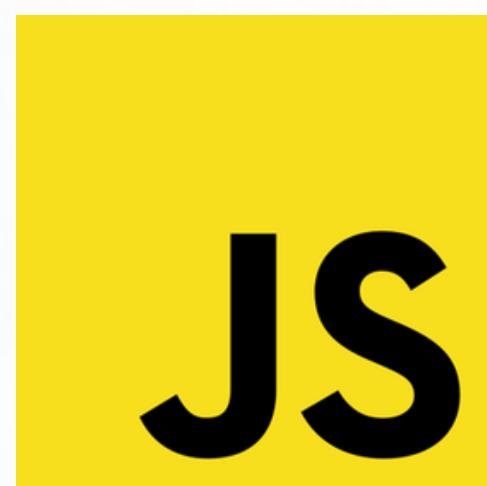
## HOW TO MODIFY ACCOUNTS?



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

## TECHSTACK OF THIS PROJECT



express



MediaPipe



Tailwind CSS

Flowbite

## 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  
MEDIPIPE - 0.10.7  
MATPLOTLIB - 3.8.0  
PILLOW - 10.1.0  
WHEEL - 0.38.4  
NUMPY - 1.26.1



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**INTELLIGENT SYSTEM**  
**PROF. JESSIE C. ALAMIL**