## **Physical USB Security Application**

A simple tool to enhance USB port security.

The Physical USB Security Application is a Python-based tool designed to control and secure USB ports on your computer. Whether you want to enable or disable USB ports, ensure only authorized access, or manage user activity, this application provides an intuitive interface for USB port management.

## **Objectives 🚀**

### **USB Port Control:**

* Enable or disable USB ports to prevent unauthorised data transfers or device connections.
* Enhance security by restricting access to USB devices.

### **User Activity Logging:**

* Keep track of USB port usage by logging user actions (enable/disable) and timestamps.
* Maintain an audit trail for accountability and troubleshooting.

### **Password Protection:**

* Implement secure password storage and verification for user authentication.
* Protect USB port management features by requiring user credentials.

## **How It Works 🤖**

### **Login/Sign Up:**

* Users can create an account or log in with existing credentials.
* Passwords are securely hashed and stored in the user database.

### **Main Application Window:**

* Users can enable or disable USB ports with a single click.
* The application displays recent activity logs and timestamps.

### **Password Verification:**

* Users must enter their password to access USB port management features.
* Only authenticated users can enable or disable USB ports.

## **Prerequisites 🛠️**

### **Python:**

* Ensure you have Python 3.12+ installed on your system. If not, download and install it from the [official Python website](https://www.python.org/downloads/).

## **Getting Started 🚀**

### **Clone this Repository:**

Clone this repository to your local machine:

**git clone** [**https://github.com/yesh00008/Physical-USB-Security-Application.git**](https://github.com/yesh00008/Physical-USB-Security-Application.git)

### **Install Dependencies:**

**Navigate to the project directory and install required dependencies:**

**pip install -r requirements.txt**

### **How to Run the Physical USB Security Application:**

**Follow the steps below to set up and run the application.**

1. **Run the Application: Open a terminal or command prompt. Navigate to the directory containing Usb.py. Run the script:**

**python Usb.py**