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#include <Mouse.h>

const int buttonPinRight = 2; // Right click button pin (Connect to digital pin
2)
const int buttonPinLeft = 3; // Left click button pin (Connect to digital pin
3)
const int buttonPinDrag = 4; // Drag button pin (Connect to digital pin 4)

int buttonStateLeft = HIGH;
int lastButtonStateLeft = HIGH;
int buttonStateRight = HIGH;
int lastButtonStateRight = HIGH;
int buttonStateDrag = HIGH;
int lastButtonStateDrag = HIGH;

unsigned long lastDebounceTimeLeft = 0;
unsigned long lastDebounceTimeRight = 0;
unsigned long lastDebounceTimeDrag = 0;
unsigned long debounceDelay = 50;

bool isDragging = false; // Flag to track if the drag action is active

const int buttonUpPin = 5; // Connect the up button to digital pin 5
const int buttonLeftPin = 6; // Connect the left button to digital pin 6
const int buttonRightPin = 7; // Connect the right button to digital pin 7
const int buttonDownPin = 8; // Connect the down button to digital pin 8

int mouseSpeed = 5; // Adjust the speed of mouse movement

void setup() {

    pinMode(buttonPinLeft, INPUT);
    pinMode(buttonPinRight, INPUT);
    pinMode(buttonPinDrag, INPUT);

    digitalWrite(buttonPinLeft, HIGH); // Enable internal pull-up resistor
    digitalWrite(buttonPinRight, HIGH); // Enable internal pull-up resistor
    digitalWrite(buttonPinDrag, HIGH); // Enable internal pull-up resistor

    Mouse.begin();

    pinMode(buttonLeftPin, INPUT_PULLUP); // Set pin 5 as an input with internal
pull-up resistor
    pinMode(buttonRightPin, INPUT_PULLUP); // Set pin 6 as an input with internal
pull-up resistor

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    pinMode(buttonUpPin, INPUT_PULLUP);    // Set pin 7 as an input with internal
pull-up resistor
    pinMode(buttonDownPin, INPUT_PULLUP);  // Set pin 8 as an input with internal
pull-up resistor

    Serial.begin(9600);
}

void loop() {

    int readingLeft = digitalRead(buttonPinLeft);
    int readingRight = digitalRead(buttonPinRight);
    int readingDrag = digitalRead(buttonPinDrag);

    // Left button handling
    if (readingLeft != lastButtonStateLeft) {
        lastDebounceTimeLeft = millis();
    }

    if ((millis() - lastDebounceTimeLeft) > debounceDelay) {
        if (readingLeft != buttonStateLeft) {
            buttonStateLeft = readingLeft;

            if (buttonStateLeft == HIGH) {
                Mouse.click();
            }
        }
    }

    lastButtonStateLeft = readingLeft;

    // Right button handling
    if (readingRight != lastButtonStateRight) {
        lastDebounceTimeRight = millis();
    }

    if ((millis() - lastDebounceTimeRight) > debounceDelay) {
        if (readingRight != buttonStateRight) {
            buttonStateRight = readingRight;

            if (buttonStateRight == HIGH) {
                Mouse.click(MOUSE_RIGHT);
            }
        }
    }
}
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lastButtonStateRight = readingRight;

// Drag button handling
if (readingDrag != lastButtonStateDrag) {
    lastDebounceTimeDrag = millis();
}

if ((millis() - lastDebounceTimeDrag) > debounceDelay) {
    if (readingDrag != buttonStateDrag) {
        buttonStateDrag = readingDrag;

        if (buttonStateDrag == HIGH) {
            if (isDragging) {
                Mouse.release(MOUSE_LEFT); // Release left button to stop dragging
                isDragging = false;
            } else {
                isDragging = true;
                Mouse.press(MOUSE_LEFT); // Press left button to start dragging
            }
        }
    }
}

lastButtonStateDrag = readingDrag;

int buttonLeftState = digitalRead(buttonLeftPin);
int buttonRightState = digitalRead(buttonRightPin);
int buttonUpState = digitalRead(buttonUpPin);
int buttonDownState = digitalRead(buttonDownPin);

if (buttonLeftState == HIGH) {
    Mouse.move(-mouseSpeed, 0);
}

if (buttonRightState == HIGH) {
    Mouse.move(mouseSpeed, 0);
}

if (buttonUpState == HIGH) {
    Mouse.move(0, -mouseSpeed); // Move the cursor up
}

if (buttonDownState == HIGH) {
    Mouse.move(0, mouseSpeed); // Move the cursor down
}

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}  
  
delay(10); // Adjust this value for the desired update rate  
}
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