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using UnityEngine;
using UnityEngine.EventSystems;
using System.Collections;
using System.Collections.Generic;
public class Paint : MonoBehaviour, IDragHandler, IDropHandler
    private bool isMousePressed;
    public List<Vector3> pointsList;
    private Vector3 mousePos;
    private LineRenderer lineRenderer;
    struct myLine
        public Vector3 StartPoint;
        public Vector3 EndPoint;
    };
    void Awake()
        lineRenderer =
GameObject.Find("LineRender").GetComponent<LineRenderer>();
        lineRenderer.positionCount = 0;
        lineRenderer.startWidth = 0.5f;
        lineRenderer.endWidth = 1f;
        lineRenderer.startColor = Color.green;
        lineRenderer.endColor = Color.grey;
        //lineRenderer.useWorldSpace = false;
    }
        private void Start()
        //lineRenderer.enabled = false;
    public void OnDrag(PointerEventData eventData)
        //Debug.Log("Nazav"+eventData.position);
        //lineRenderer.enabled = true;
        isMousePressed = true;
        lineRenderer.positionCount = 0;
        pointsList.RemoveRange(0, pointsList.Count);
        lineRenderer.startColor = Color.green;
        lineRenderer.endColor = Color.grey;
    public void OnDrop(PointerEventData eventData)
        //Debug.Log("Vidpustiv" + eventData.position);
        isMousePressed = false;
        //lineRenderer.enabled = false;
    private void Update()
        //if (Input.GetMouseButtonDown(0))
        //{
             isMousePressed = true;
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//}
        //if (Input.GetMouseButtonUp(0))
        //{
        //
              isMousePressed = false;
        //}
        if (isMousePressed)
            mousePos =
Camera.main.ScreenToWorldPoint(Input.mousePosition);
            mousePos.z = 0;
            if (!pointsList.Contains(mousePos))
                pointsList.Add(mousePos);
                lineRenderer.positionCount = pointsList.Count;
                lineRenderer.SetPosition(pointsList.Count - 1,
(Vector3)pointsList[pointsList.Count - 1]);
                if (isLineCollide())
                {
                    isMousePressed = false;
                    lineRenderer.startColor = Color.red;
                    lineRenderer.endColor = Color.red;
                }
            }
        }
   private bool isLineCollide()
        if (pointsList.Count < 2)</pre>
            return false;
        int TotalLines = pointsList.Count - 1;
        myLine[] lines = new myLine[TotalLines];
        if (TotalLines > 1)
        {
            for (int i = 0; i < TotalLines; i++)</pre>
                lines[i].StartPoint = (Vector3)pointsList[i];
                lines[i].EndPoint = (Vector3)pointsList[i + 1];
        }
        for (int i = 0; i < TotalLines - 1; i++)
            myLine currentLine;
            currentLine.StartPoint = (Vector3)pointsList[pointsList.Count
- 21;
            currentLine.EndPoint = (Vector3)pointsList[pointsList.Count -
1];
            if (isLinesIntersect(lines[i], currentLine))
                return true;
        return false;
    private bool checkPoints(Vector3 pointA, Vector3 pointB)
        return (pointA.x == pointB.x && pointA.y == pointB.y);
   private bool isLinesIntersect(myLine L1, myLine L2)
        if (checkPoints(L1.StartPoint, L2.StartPoint) ||
```