

14. pielikums

Eksperimentu stenda datorprogrammas fotoattēlu uzņemšanas un organizēšanas kods

```
using System;
using System.Diagnostics;
using System.IO;

namespace UR10
{
    public interface IPhotoCapturer
    {
        (string output, string errors) CapturePhoto();
        string OrganizePhotoFiles(string folderName, int index);
    }

    public class PhotoCapturer : IPhotoCapturer
    {
        private const string workingFolder = "./RealSenseTools/";
        public (string output, string errors) CapturePhoto()
        {
            Process p = new Process();
            p.StartInfo.UseShellExecute = false;
            p.StartInfo.RedirectStandardOutput = true;
            p.StartInfo.RedirectStandardError = true;
            p.StartInfo.FileName = $"{workingFolder}rs-save-to-disk.exe";
            p.Start();
            string output = p.StandardOutput.ReadToEnd();
            string errors = p.StandardError.ReadToEnd();
            p.WaitForExit();

            return (output, errors);
        }

        public string OrganizePhotoFiles(string folderName, int index)
        {
            string folderPath = Path.Combine(workingFolder, folderName);
            //Directory.CreateDirectory(folderPath);

            string colorPhotoPath = "rs-save-to-disk-output-Color.png";
            string depthPhotoPath = "rs-save-to-disk-output-Depth.png";

            if (!File.Exists(colorPhotoPath))
            {
                return $"Error: {colorPhotoPath} doesn't exist";
            }

            if (!File.Exists(depthPhotoPath))
            {
                return $"Error: {depthPhotoPath} doesn't exist";
            }

            string fileName = $"{index}index{DateTime.Now.ToString().Replace(":", "-").Replace("/", "-")}-Color.png";
            File.Move(colorPhotoPath, Path.Combine(Properties.Settings.Default.PhotosFolderPath, "rawscaled", fileName));
            //File.Move(depthPhotoPath, Path.Combine(folderPath, $"{DateTime.Now.ToString().Replace(":", "-").Replace("/", "-")}-
Depth.png"));

            return fileName;
        }
    }
}
```