Kunstwerk Datebank 02.8 beta

Documentation

24. March 2023

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(also accessible by the side on google docs)

Project Overview

This program contains both front-end and back-end code for artwork database management with a simple graphical user interface (**GUI**)
built with [**Tkinter library**](https://docs.python.org/3/library/tk.html). While Daniel Huang personally might not choose Tkinter if he were to build a real-world app with modern UI, Tkinter serves him well in terms of getting him familiar with how to connect to databases(SQLite in this case), manipulate data, and reflect the changes on the front end with Python.

The program supports all 4 essential CRUD functionalities and more I also manage to package the program into a standalone executable file for production/distribution

This project is developed from the program found on GitHub:
[@Daniel Huang](https://www.linkedin.com/in/daniel-huang-443546115/)
(**Github link**)(https://github.com/daniel-huang-1230/Python-GUI-Bookstore)

To his project, I added functions for adding, deleting, saving photos and photos, adding more entries, exporting tables, exporting all photos, exporting databases, importing a database, choosing a language, and changing the layout of the GUI.

With this program, you can export all photos from your database with one command. They are limited to 200x200px, so they are prepared for adding to the excel table. Also possible is exporting the table as CSV, which you can open easily in excel.

This work was possible with the help of my college:
[@Damijan Randl](https://www.linkedin.com/in/damijan-randl-73b638248/)

using **py2app** library by following the tutorial
[here](https://www.metachris.com/2015/11/create-standalone-mac-os-x-applications-with-python-and-py2app/).

Author
[@Oskar Kandare](https://www.linkedin.com/in/oskar-kandare-5a449814b/)

Quick Overview

This program is designed for managing the archive of artworks. You can add and remove artwork, write names, year, size, location(studio or not), location more specifically, date of return, telephone number, contact, price, and price for the insurance.

You can add photos of artwork, export an excel table, export a database, export photos with naming, and create a new database.

important information

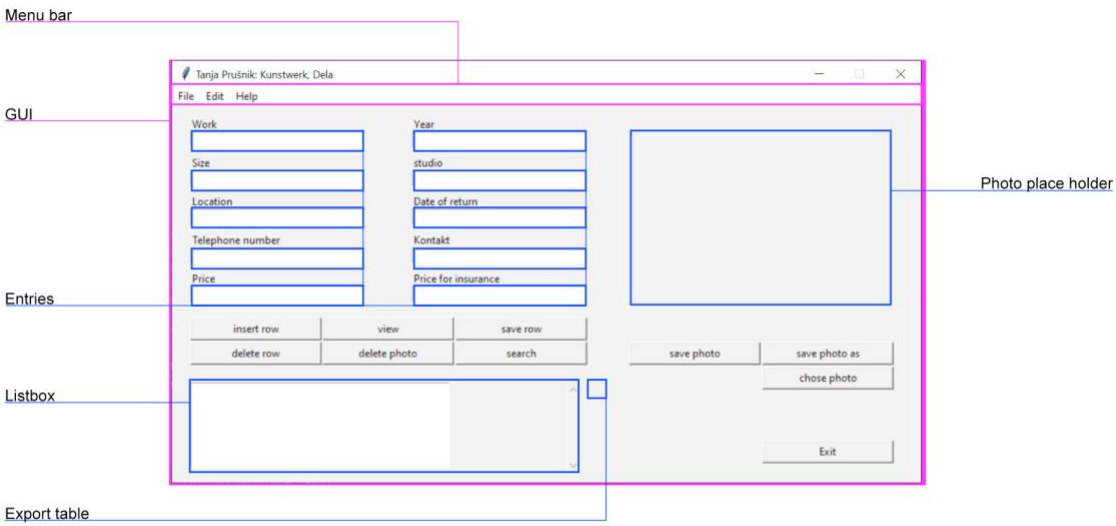
When you name works you must never have the same name. If you export all photos, the ones with the same name will get overwritten.

The size in which the blob images will work efficiently is 200kb, maximum size of the photo is 2GB (the whole program will get really slow)

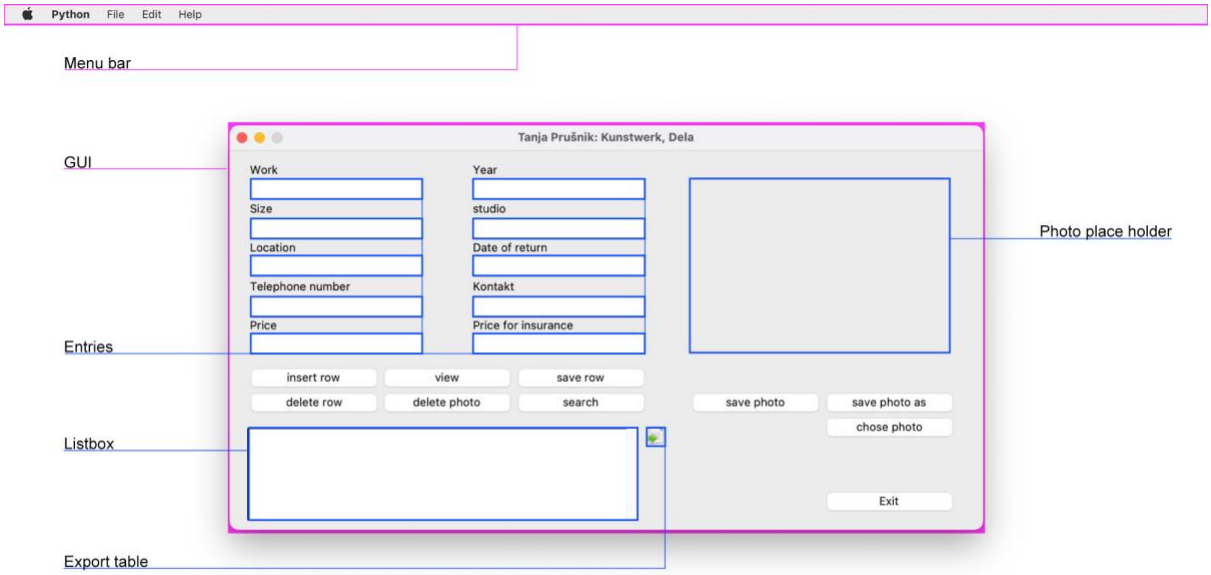
On Windows you must add ending .db when creating new database
example (database.db)

GUI overview

Windows



Mac OS



How to use the program

When you first open a program, you need to create a database. You can create it by clicking cancel on the chooser and then yes to create a database. When you create a new database program opens with the database you just created.

There you have an interface with entries and buttons.

Mac only

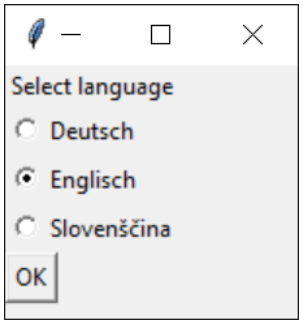
When using mac functions are missing, because I couldn't manage to make them work. Those are choosing different databases and choosing a different language.
You can create a new database by going into edit -> new database.
the name of it must be exactly Kunstwerk_Prusnik.db
After you create a new database you must close the program and start again.

Windows only

choose a language

You can choose between German, English, and Slovenian. (language doesn't apply everywhere)

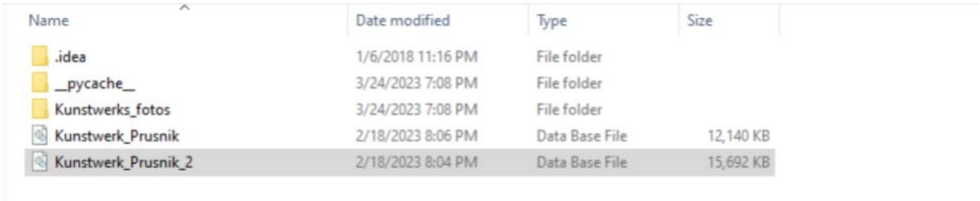
choose a language by clicking the circle in front of it



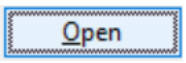
click OK to proceed to

choose database

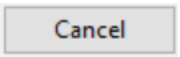
select a database, which you want to access.



Click Open



If there is none, click cancel



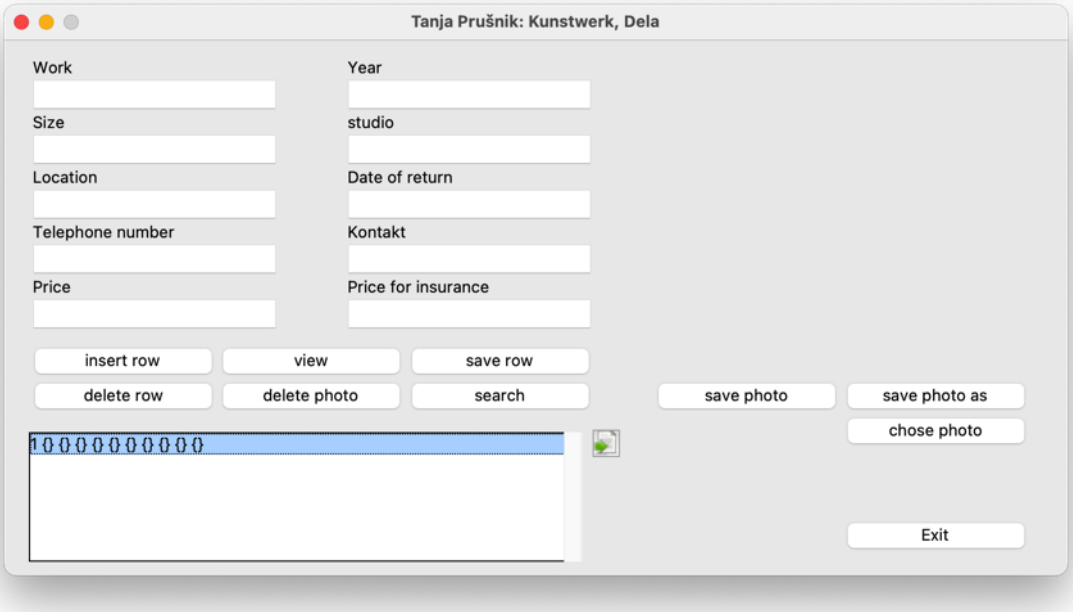
you will be asked if you want to create a new database.
click Yes
choose a name something like first_database.db
after you create a new database, the program will start in the newly created database.

Windows and Mac

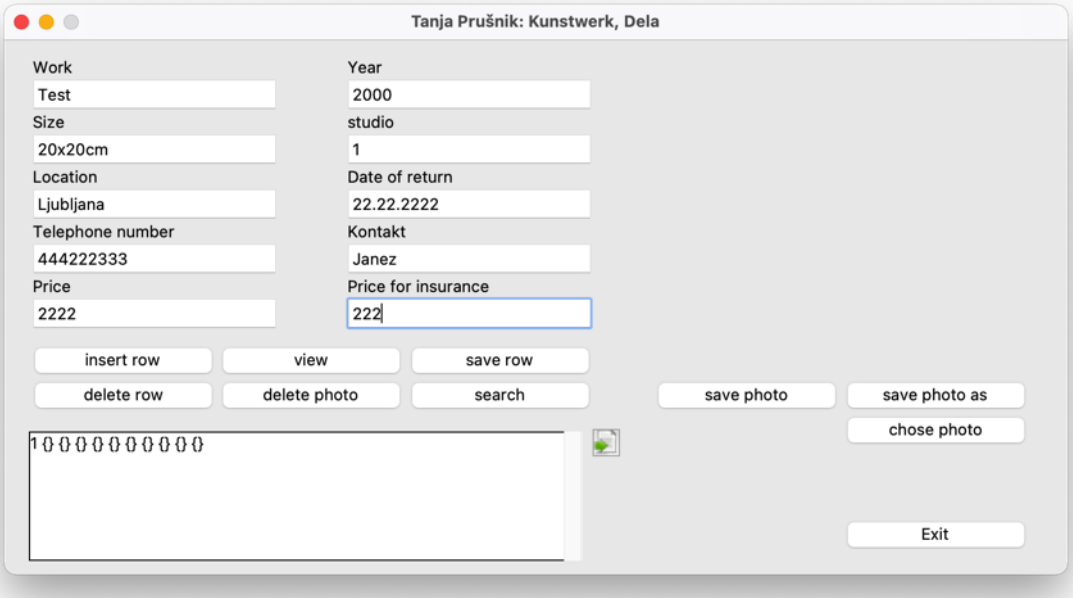
Add new work

Open program
Click Insert row

Select a row in listbox



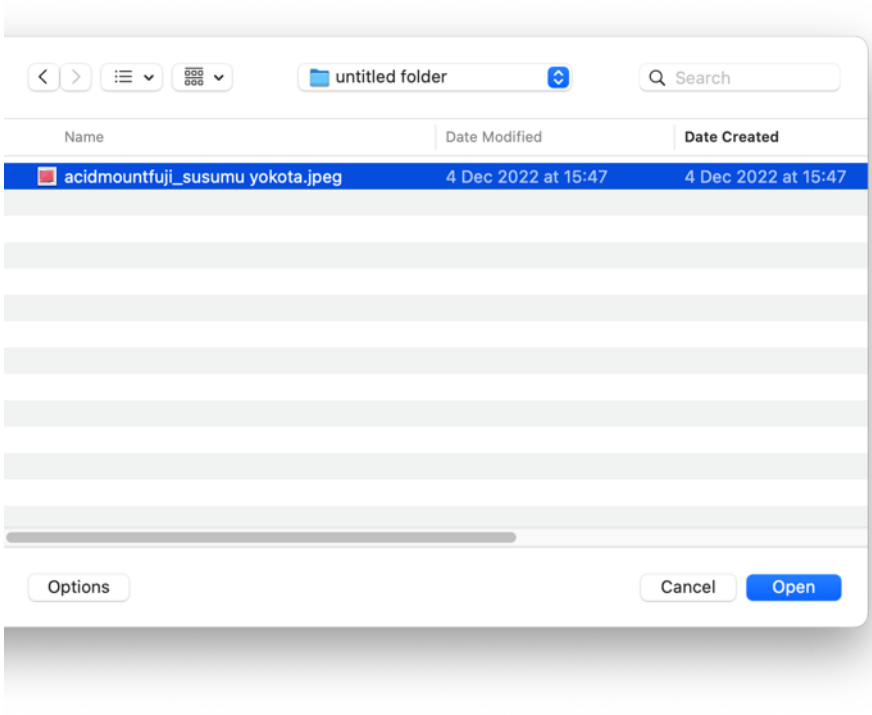
Add information to the entry box



click save row

Add photo

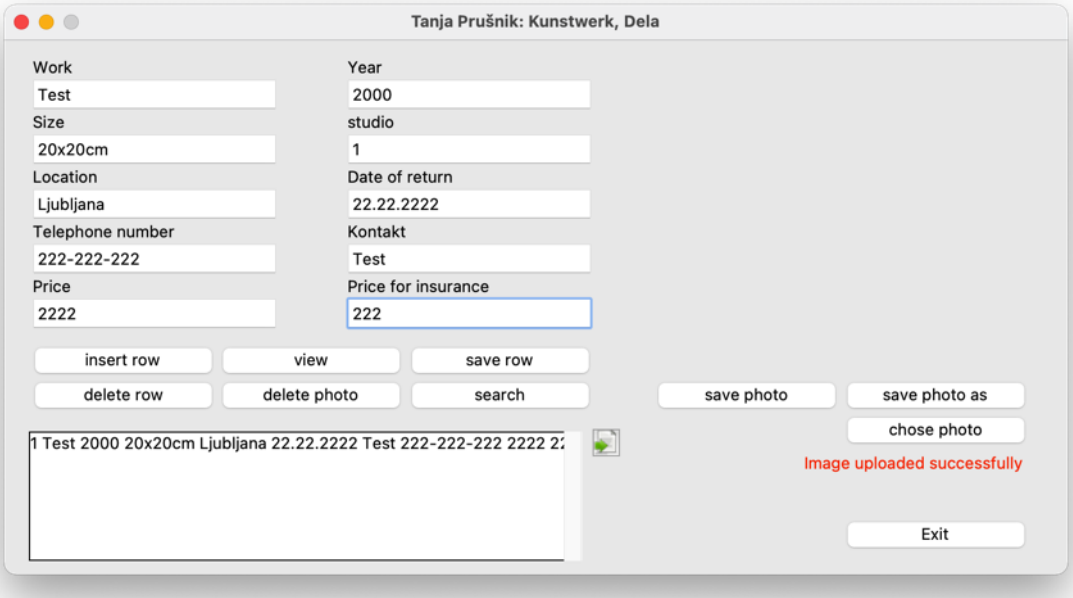
click chose photo



select the photo (it should not exceed 200kb)
click open

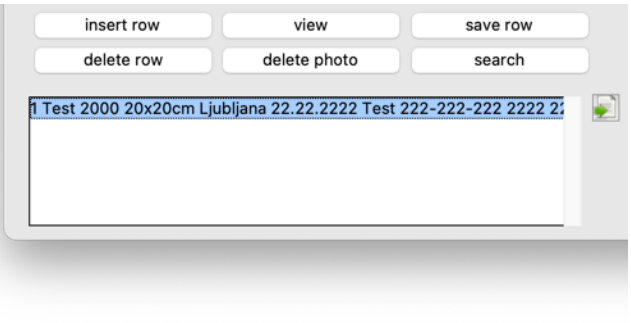
click save row

if you properly add a photo, the text “Image uploaded successfully” will appear

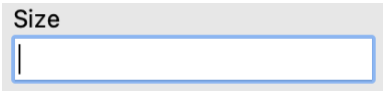


Change information in row

Select a row in listbox



Select the entry you want to change

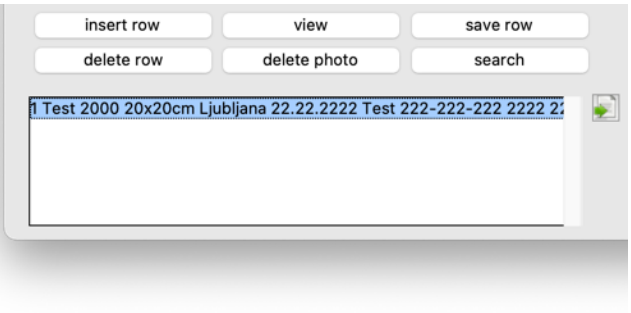


Replace information

Click save row

Replace photo

Select a row in listbox



click chose photo

select the photo (it should not exceed 200kb)

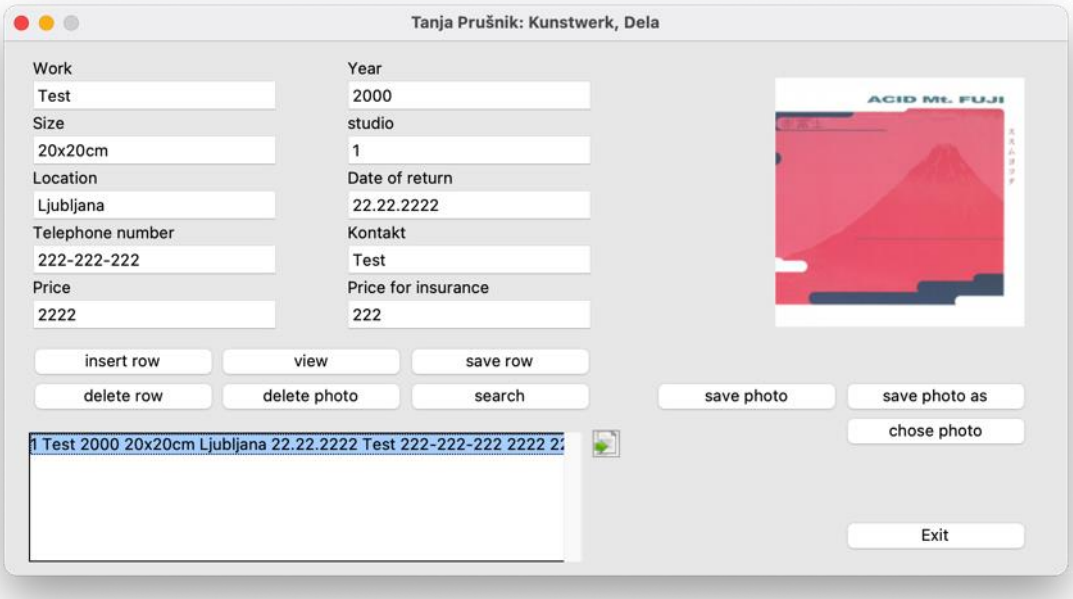
click open

click save row

(the image is now replaced)

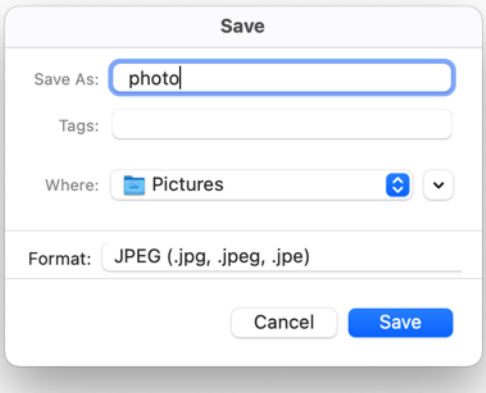
Save photo to a specific location

Select the row with the desired photo



click save photo as (window opens)

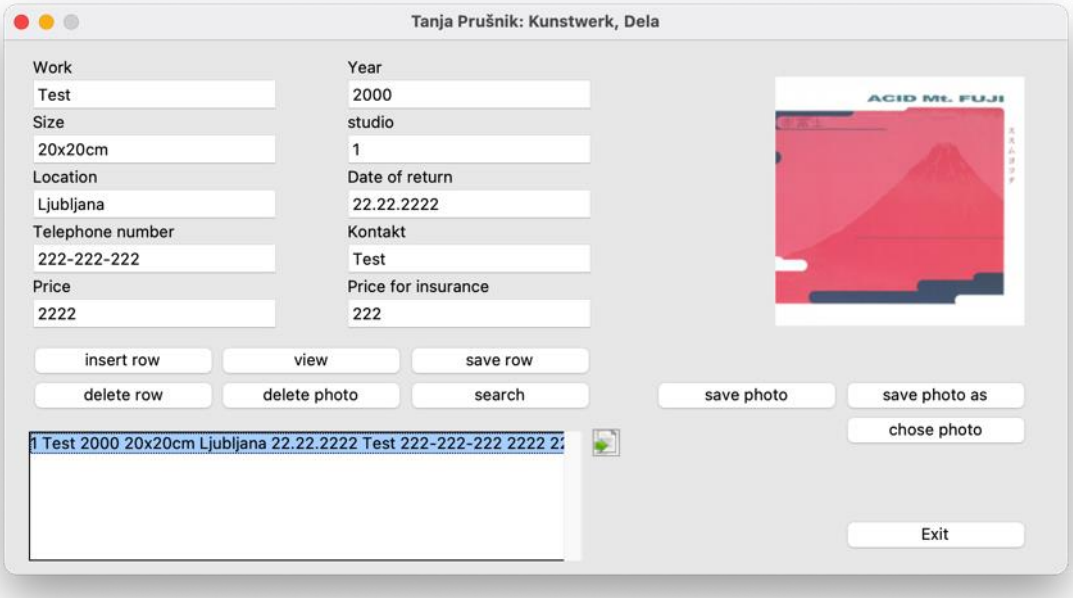
insert the name you want



click save

Save photo to Kunstwerk_fotos

Select the row with the desired photo



click save photo

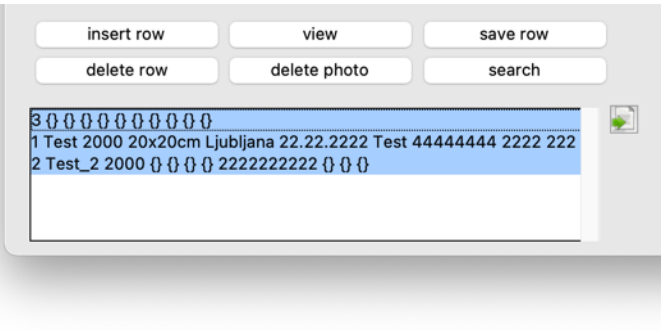
photo is now in Kunstwerk_datenbank / Kunstwerk_fotos folder

Export excel table, CSV

Select the rows, you would like to export

holding SHIFT lets you select multiple

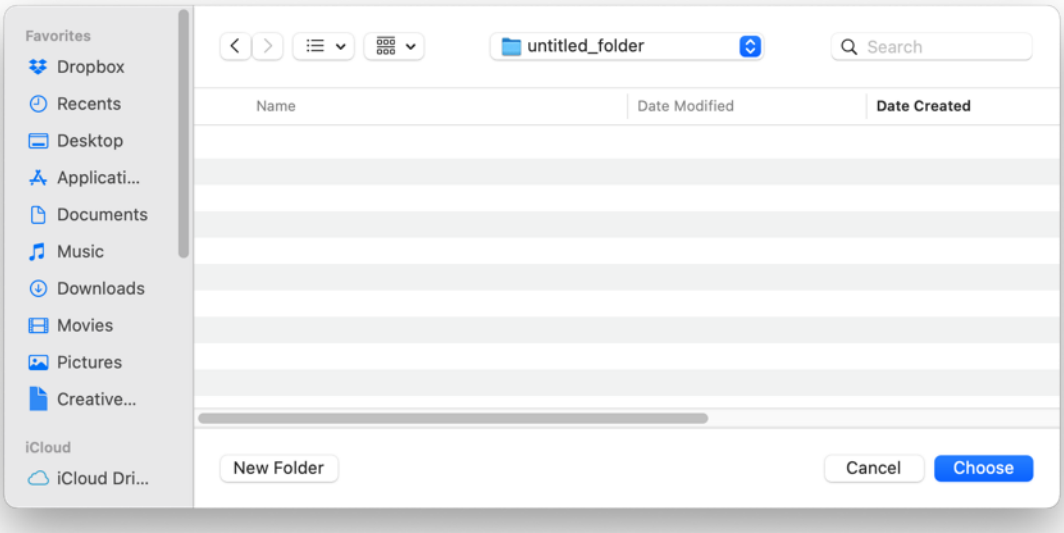
holding CTRL let you select multiple not in order



After you have selected everything you want

click the icon next to listbox 

(windows open)



Select the location where to export
click choose

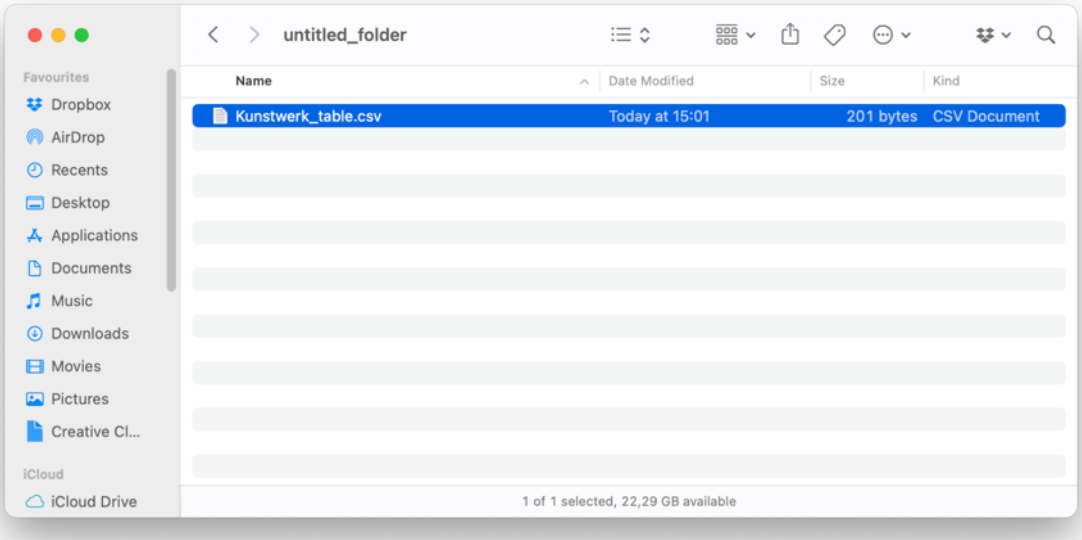


Table is exported

BUG you can’t export only one selected

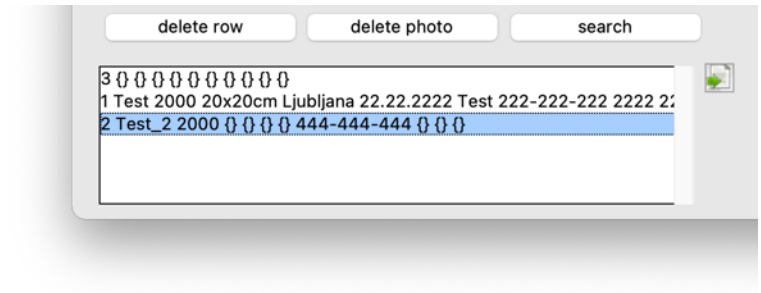
#Functions of buttons in GUI

Insert row

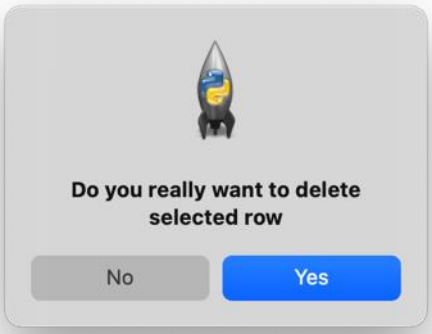
inserts a new empty row in a database

Delete row

select the row in listbox



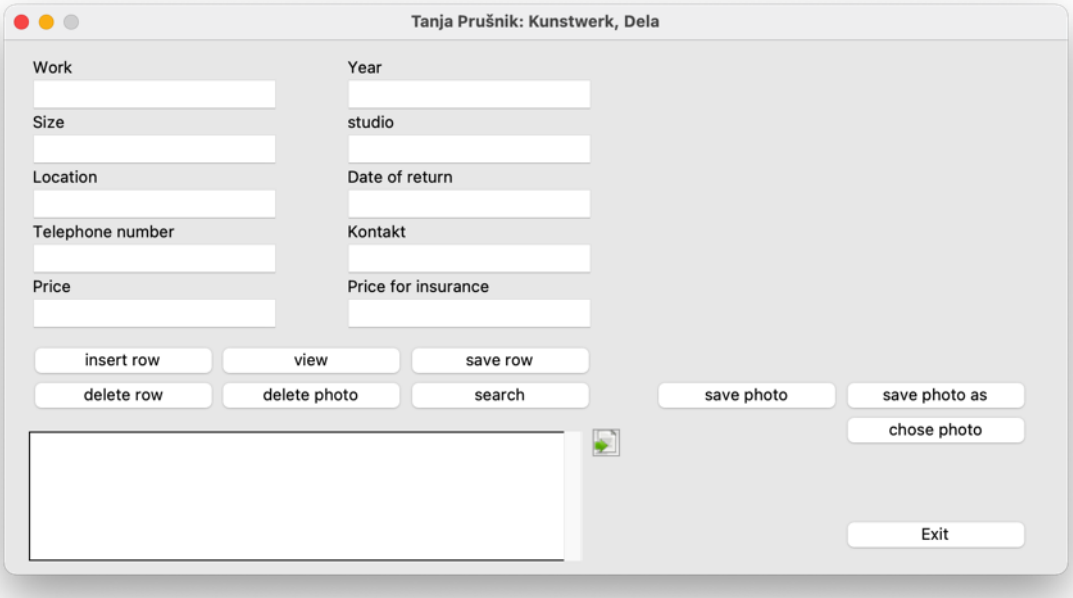
click delete row
(pop up open)



click Yes

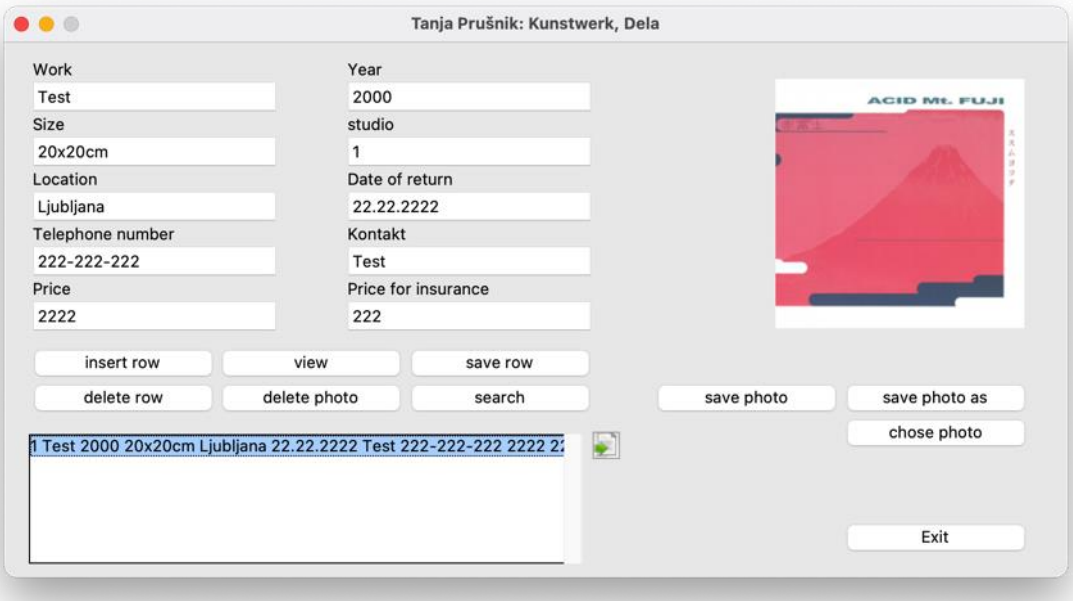
View

if there is nothing seen click view



Delete photo

select a row with the wanted photo



click delete photo
(pop up open)

click Yes

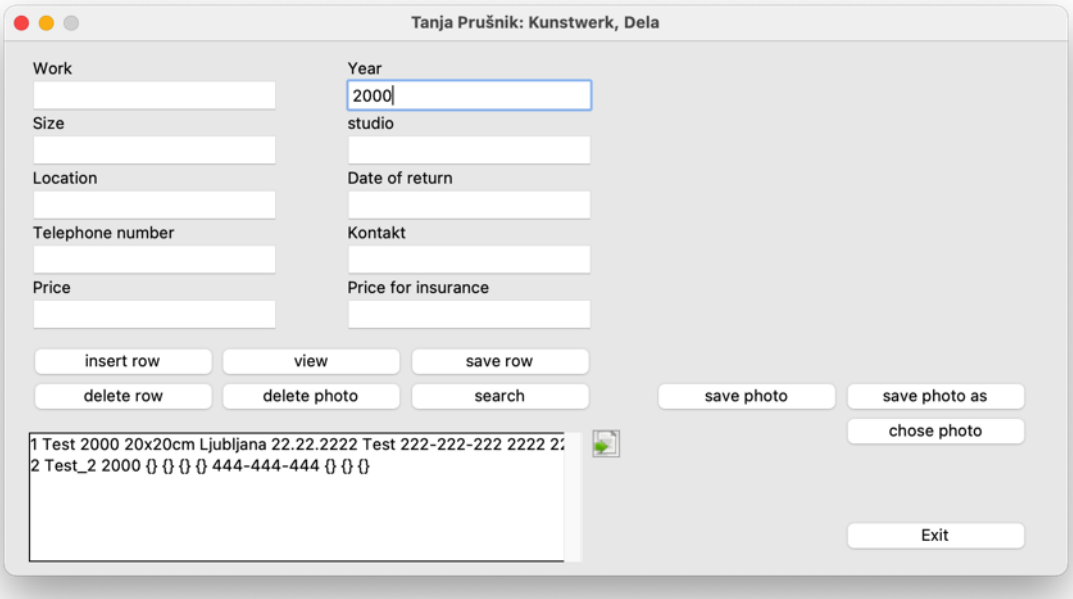
Save row

saves all changes made in the selected row

save row

Search

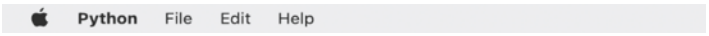
finds only a perfect naming match
Searches only full entries, empty ones are skipped



Exit

End program

#Menu bar

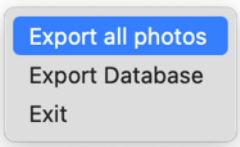


File

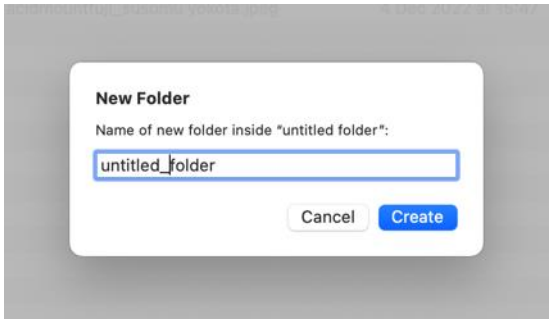
Export all photos

photos prepared for excel (long edge length 200px)

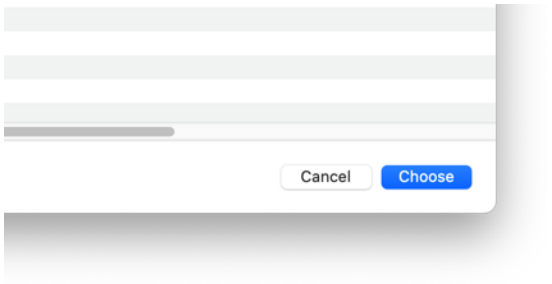
click Export all photos



(window open)
select location
create New folder



click Choose

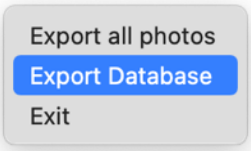


(wait a few seconds)
There should be photos in the folder

Export database

create a copy of the database that is currently in use

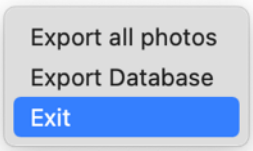
click export database



select export location (make sure there is no file named backup.db)
click chose
(backup.db is created)

Exit

end program

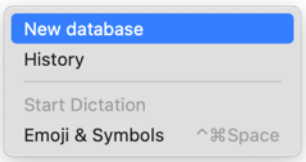


Edit

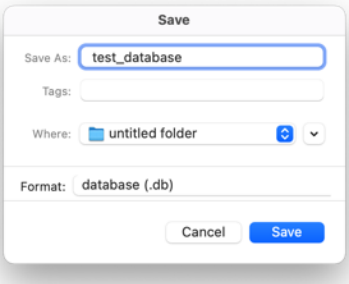
New database

create a new database

click New database



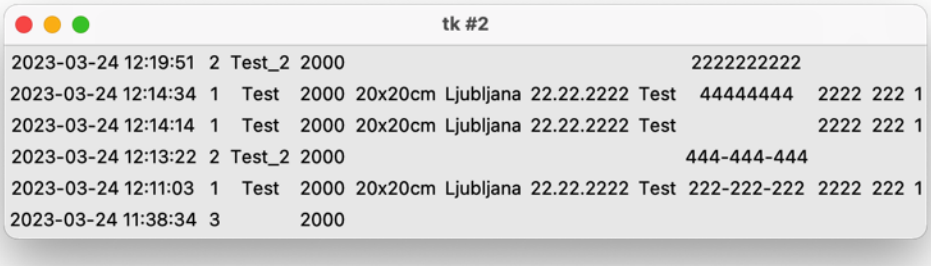
chose the name (should not contain space, for example, test_database)



click save

History

shows the last 20 changes

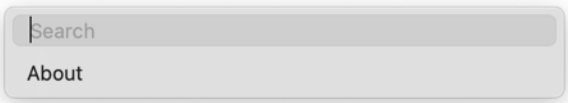


The second number is the id
left is y/m/d, h/min/sec when the change was saved.

Help

Search (mac only)

search find object only in the menu bar



About

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