

Kunstwerk Datebank 02.8 beta

Documentation

24. March 2023

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(also accessible by the side on google docs)

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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

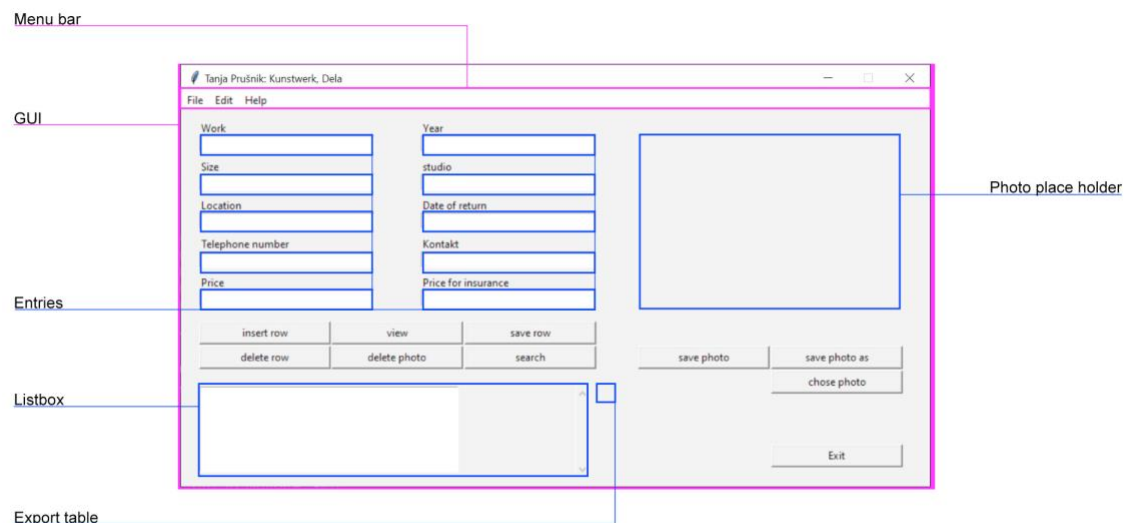
When you name works you must never have the same name. If you export all photos, the ones with the same name will get overwritten.

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)

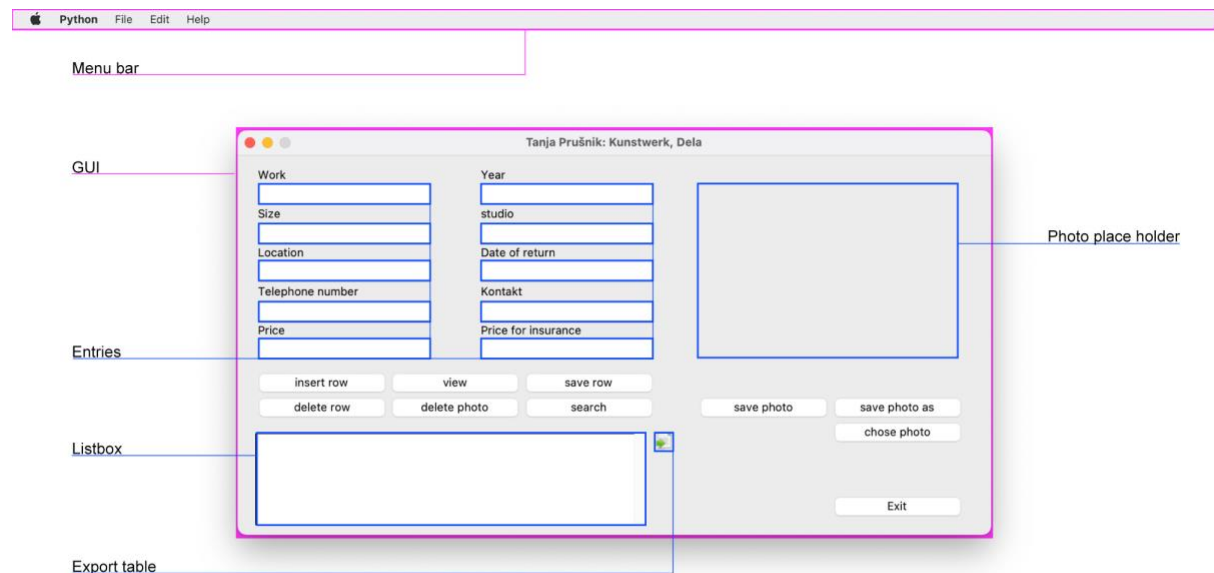
On Windows you must add ending .db when creating new database
example (database.db)

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**

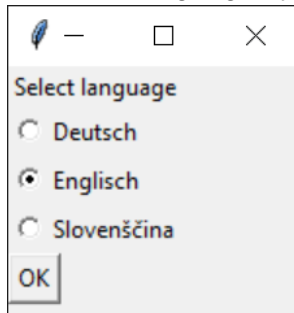
After you create a new database you must close the program and start again.

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



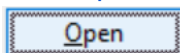
click [OK](#) to proceed to

choose database

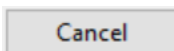
select a database, which you want to access.

Name	Date modified	Type	Size
.idea	1/6/2018 11:16 PM	File folder	
__pycache__	3/24/2023 7:08 PM	File folder	
Kunstwerks_fotos	3/24/2023 7:08 PM	File folder	
Kunstwerk_Prusnik	2/18/2023 8:06 PM	Data Base File	12,140 KB
Kunstwerk_Prusnik_2	2/18/2023 8:04 PM	Data Base File	15,692 KB

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

Tanja Prušnik: Kunstwerk, Dela

Work

Year

Size

studio

Location

Date of return

Telephone number

Kontakt

Price

Price for insurance

insert row view save row

delete row delete photo search

save photo save photo as

chose photo

Exit

100000000000

Add information to the entry box

Tanja Prušnik: Kunstwerk, Dela

Work

Year

Test

2000

Size

20x20cm

studio

1

Location

Date of return

Ljubljana

22.22.2222

Telephone number

Kontakt

444222333

Janez

Price

Price for insurance

2222

222

insert row view save row

delete row delete photo search

save photo save photo as

chose photo

Exit

100000000000

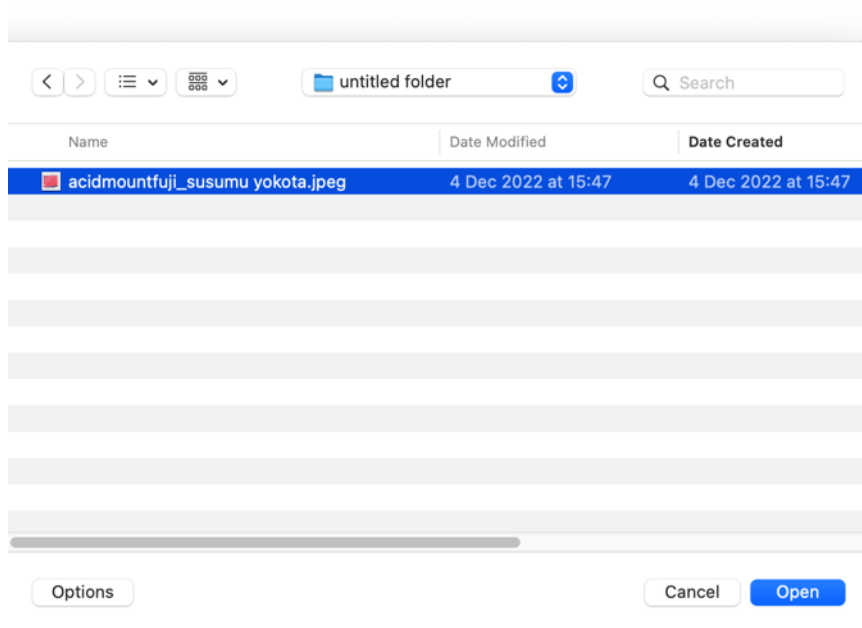
click [save row](#)

save row

Add photo

chose photo

click chose photo

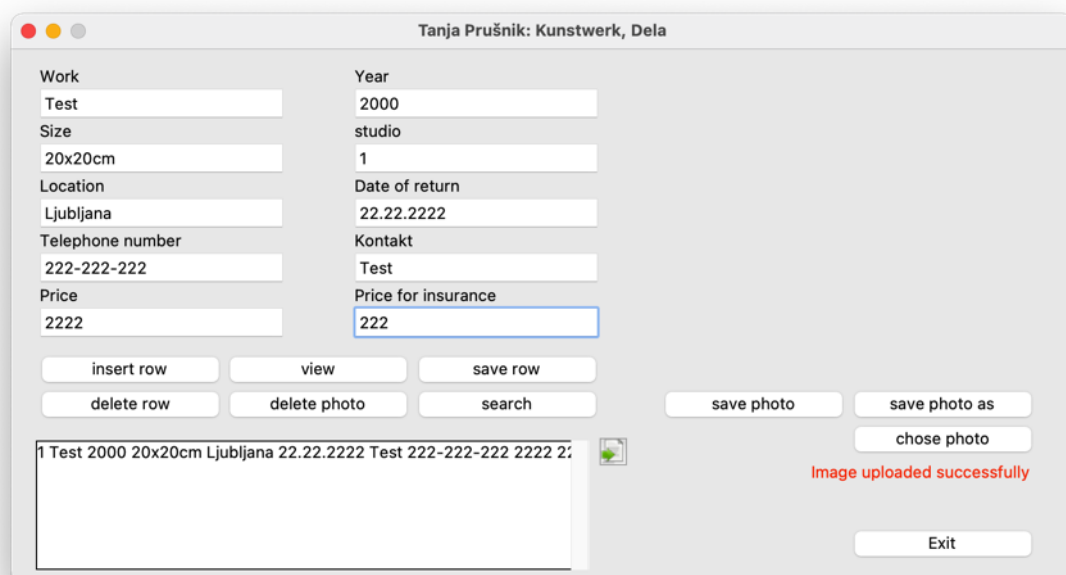


select the photo (it should not exceed 200kb)
click open

click save row

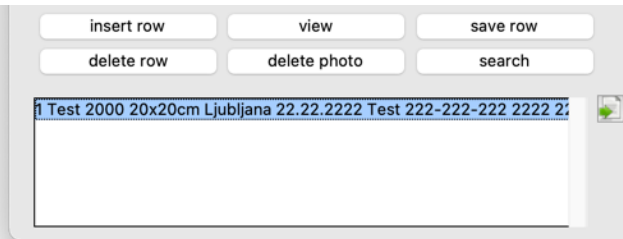
save row

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

Size

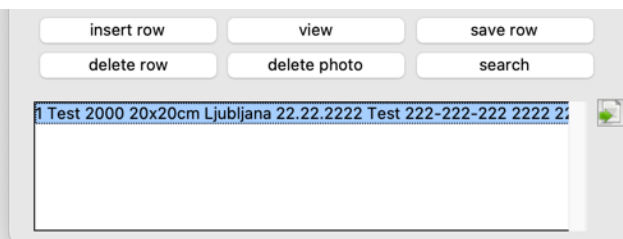
Replace information

Click [save row](#)

[save row](#)

Replace photo

Select a row in listbox



click [chose photo](#)

[chose photo](#)

select the photo (it should not exceed 200kb)

click [open](#)

click [save row](#)

[save row](#)

(the image is now replaced)

Save photo to a specific location

Select the row with the desired photo

Tanja Prušnik: Kunstwerk, Dela

Work	Year
Test	2000
Size	studio
20x20cm	1
Location	Date of return
Ljubljana	22.22.2222
Telephone number	Kontakt
222-222-222	Test
Price	Price for insurance
2222	222

insert row view save row

delete row delete photo search

1	Test	2000	20x20cm	Ljubljana	22.22.2222	Test	222-222-222	2222	2
---	------	------	---------	-----------	------------	------	-------------	------	---

ACID ME. FUJI

save photo save photo as chose photo

Exit

click [save photo as](#) (window opens)

[save photo as](#)

insert the name you want

Save

Save As: photo

Tags:

Where: Pictures

Format: JPEG (.jpg, .jpeg, .jpe)

Cancel Save

click [save](#)

Save photo to Kunstwerk_fotos

Select the row with the desired photo

Tanja Prušnik: Kunstwerk, Dela

Work	Year	
Test	2000	
Size	studio	
20x20cm	1	
Location	Date of return	
Ljubljana	22.22.2222	
Telephone number	Kontakt	
222-222-222	Test	
Price	Price for insurance	
2222	222	

insert row view save row

delete row delete photo search

1 Test 2000 20x20cm Ljubljana 22.22.2222 Test 222-222-222 2222 2:

save photo save photo as chose photo

Exit

click [save photo](#)

[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

insert row view save row


delete row delete photo search

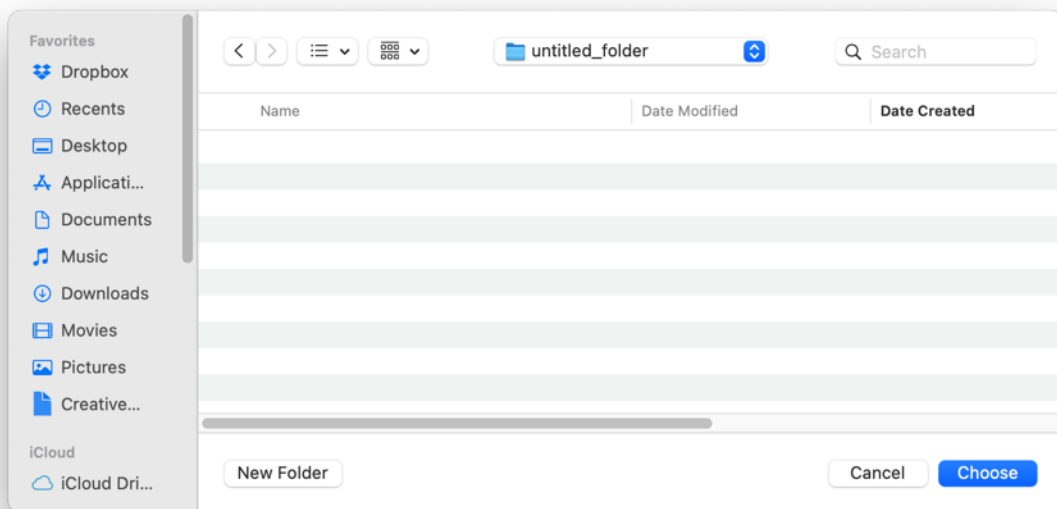
3 0 0 0 0 0 0 0 0 0 0 0

1 Test 2000 20x20cm Ljubljana 22.22.2222 Test 44444444 2222 222

2 Test_2 2000 {} {} {} 2222222222 {} {} {}

After you have selected everything you want

click the icon next to listbox 
(windows open)



Select the location where to export
click [choose](#)

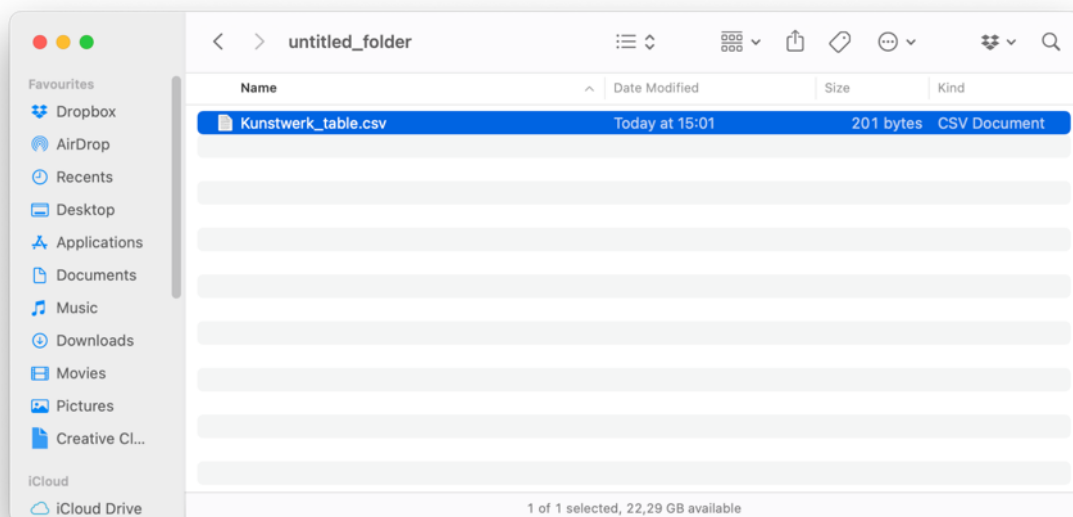


Table is exported

BUG you can't export only one selected

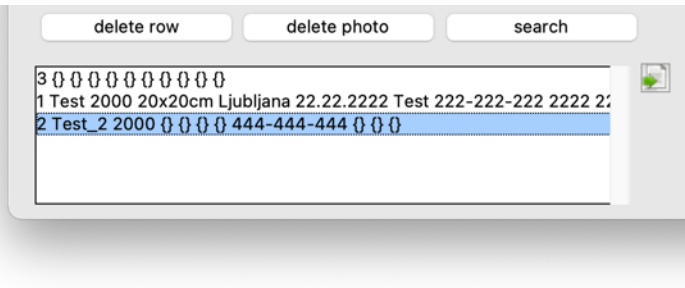
#Functions of buttons in GUI

Insert row

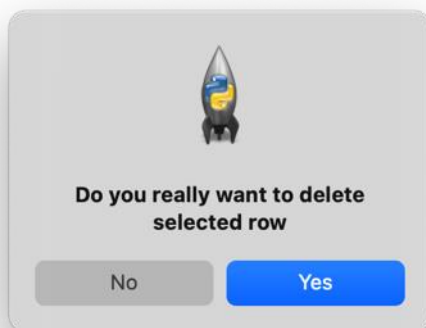
inserts a new empty row in a database

Delete row

select the row in listbox



click [delete row](#)
(pop up open)



click [Yes](#)

View

if there is nothing seen click view

Tanja Prušnik: Kunstwerk, Dela

Work	Year
<input type="text"/>	<input type="text"/>
Size	studio
<input type="text"/>	<input type="text"/>
Location	Date of return
<input type="text"/>	<input type="text"/>
Telephone number	Kontakt
<input type="text"/>	<input type="text"/>
Price	Price for insurance
<input type="text"/>	<input type="text"/>

Delete photo

select a row with the wanted photo

Tanja Prušnik: Kunstwerk, Dela

Work	Year
Test	2000
Size	studio
20x20cm	1
Location	Date of return
Ljubljana	22.22.2222
Telephone number	Kontakt
222-222-222	Test
Price	Price for insurance
2222	222

1 Test 2000 20x20cm Ljubljana 22.22.2222 Test 222-222-222 2222 2

click [delete photo](#)
(pop up open)



click **Yes**

Save row

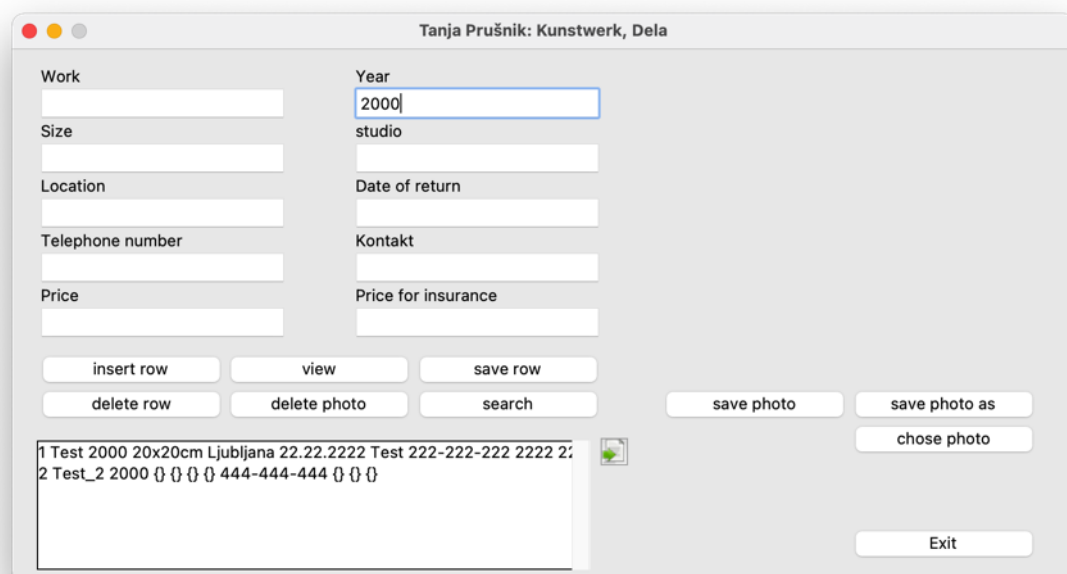
saves all changes made in the selected row



Search

finds only a perfect naming match

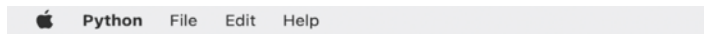
Searches only full entries, empty ones are skipped



Exit

End program

#Menu bar

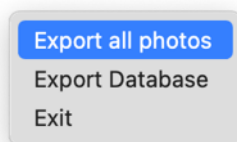


File

Export all photos

photos prepared for excel (long edge length 200px)

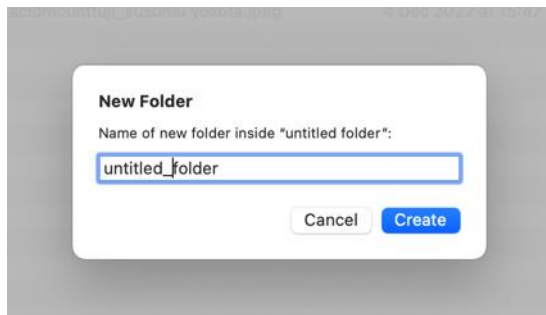
click [Export all photos](#)



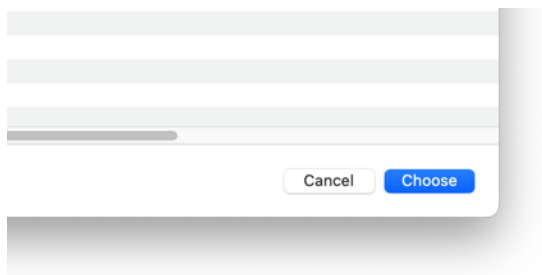
(window open)

select location

create New folder



click [Choose](#)



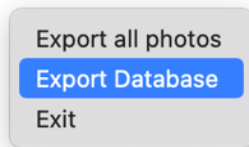
(wait a few seconds)

There should be photos in the folder

Export database

create a copy of the database that is currently in use

click [export database](#)



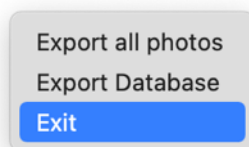
select export location (make sure there is no file named backup.db)

click [chose](#)

(backup.db is created)

Exit

end program

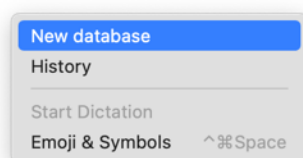


Edit

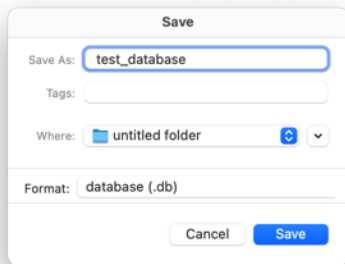
New database

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

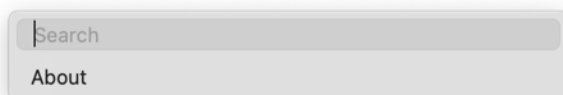
tk #2											
2023-03-24 12:19:51	2	Test_2	2000							2222222222	
2023-03-24 12:14:34	1	Test	2000	20x20cm	Ljubljana	22.22.2222	Test	44444444	2222	222	1
2023-03-24 12:14:14	1	Test	2000	20x20cm	Ljubljana	22.22.2222	Test		2222	222	1
2023-03-24 12:13:22	2	Test_2	2000					444-444-444			
2023-03-24 12:11:03	1	Test	2000	20x20cm	Ljubljana	22.22.2222	Test	222-222-222	2222	222	1
2023-03-24 11:38:34	3		2000								

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

open this document

