Roto Simplex Application

Contents

Owerview

The Roto Simplex application was developed to the company known as Roto-Elzett Certa Kft, to replace an outdated and out of used application, running only on the old operating system DOS.

This new required application was provided to plastic window manufacturers in Hungary and some other countries also to produce the best and most affordable windows, collecting and printing out the list of the moving and spare parts of the plastic windows as an ordering by the passed requirements like the window types, sizes and installation parameters.

This application basically used on offline computers, and a requirement was to reuse the original input files, that shall be used as an offline database.
The input of the application were simple text files or excel files containing data as columns and rows that could be opened and processed by the new application.

Every text / excel file represents a type of a window and containing all the spare parts of the selected type, that can be installed to the represented window, depends on the passed requirements like the window height and width, the opening direction, color, position etc…

With this new application the users were able to reuse the original inputs, open data in text file or excel format, and collect the spare parts for the selected window type passing the properties and the installed elements. The users were able to edit the collected list, like removing or adding new items from the price list or save and reload them. It is also an option to bind together the saved collections and print them out as an ordering.

Please consider that, the application was developed 10 years ago, and was in use about six years. Currently it is out of usage.

Regarding to the requirements, the development was done with java swing framework as a desktop application, without any database connection to enable the users to work offline.

User Requirements

- As a user I would like to select the type of the manufactured windows and collect the spare parts that I need to build the windows.

- As a user I would like to select different type of windows and pass the properties of the current window like:
    - Width and height
    - Garniture
    - Color
    - Direction
    - Opening type
    - Etc..

- As a user I would like to print out the collected spare parts as an ordering.
- As a user I would like to save the collected spare part list.
- As a user I would like to reload the saved spare part list.
- As a user I would like to edit the collected spare part list like removing or adding elements existing in the price list.
- As a user I would like to bind the saved collected spare part lists.
- As an administrator I would like to edit the languages, pricelists, currencies, material groups, and rebate options.

Feature Request

- The system shall be able to reuse the original text or excel files representing a window type with columns and rows.
- The system shall be able to enable the users to open one or more window types.
- The system shall be able to collect the spare parts of the selected windows by the selected properties.
- The system shall be able to print out the collected list as an ordering.
- The system shall be able to save or reload the collected spare part list.
- The system shall be able to add or remove elements from the collected spare part list.
- The system shall be able to bind the spare part lists together.

- The system shall be able to handle multi languages.
- The system shall be able to handle price lists in HUF and EUR formats.
- The system shall be able to display the currency in HUF and EUR
- The system shall be able to save the default values of the selected window properties.
- The system shall be able to handle users and profiles with different rebate settings.
- The system shall be able to handle the application registration and the registration form.
- The system shall be able to enable the administrator to edit the text database on the UI.
- The system shall be able to enable the administrator to edit the material groups.
- The system shall be able to enable the administrator to edit the rebate options on the material groups.
- The system shall be able to enable the administrator to edit language elements.
- The system shall be able to enable the administrator to edit the price lists.

Scope

In Scope
- All the mentioned feature / user requests.

Out of scope
- Create log files
- Server – Client architecture
- Store original data in database
- Javadoc

Future directions
- Store original data in database as local or with Server – Client architecture
- Change to online architecture to enable updates autamtically

Clone source code and workspace setup for the Roto application

### Get the application source from GitHub with TortoiseGit extension:
- Install Git for Windows:
  https://git-scm.com/download/win
- Install TortoiseGit:
  https://tortoisegit.org/
- or any optional GUI:
  https://git-scm.com/downloads/guis
- **Application source location:**
  https://github.com/kadarv82/Roto.git

With installed Git and TortoiseGit extension:
1. With any file explorer create a folder example "C:\Roto"
2. Right Click on the folder and select Git clone... (this is an installed extension)
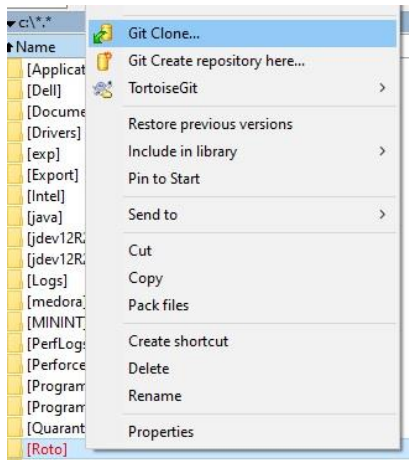
3. In the field 'URL' type **"https://github.com/kadarv82/Roto.git"** and the field 'Directory' add "C:\Roto\"
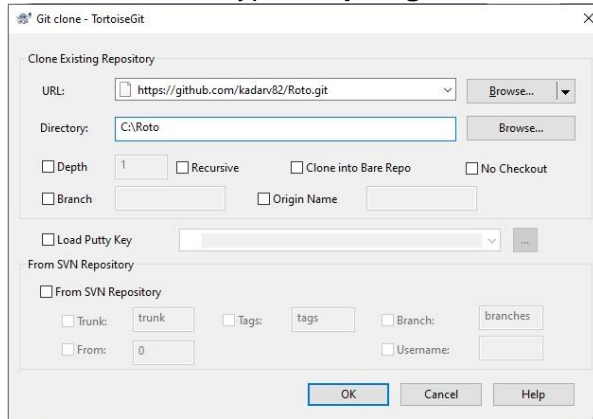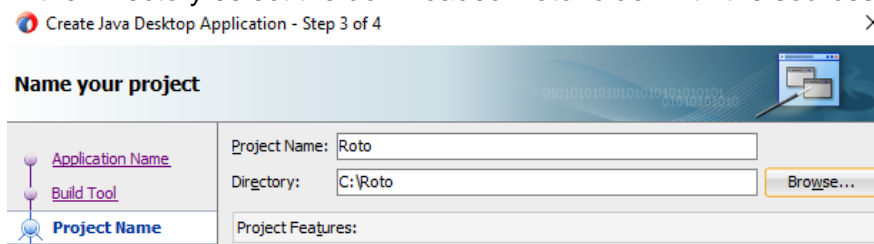

4. Press OK.

Workspace setup and run the application in JDeveloper IDE:

- Download JDeveloper IDE:
 https://www.oracle.com/in/tools/downloads/jdeveloper-12c-downloads.html
- Install and Start JDeveloper IDE.

1. Select the menu 'File - New Application' and 'Java Desktop Appplication'
2. Add application name, example "RotoApp".

3. Press Next and Next to the Project Name, and add example the name "Roto",
   in the Directory select the downloaded Roto folder with the sources, example "C:\Roto"
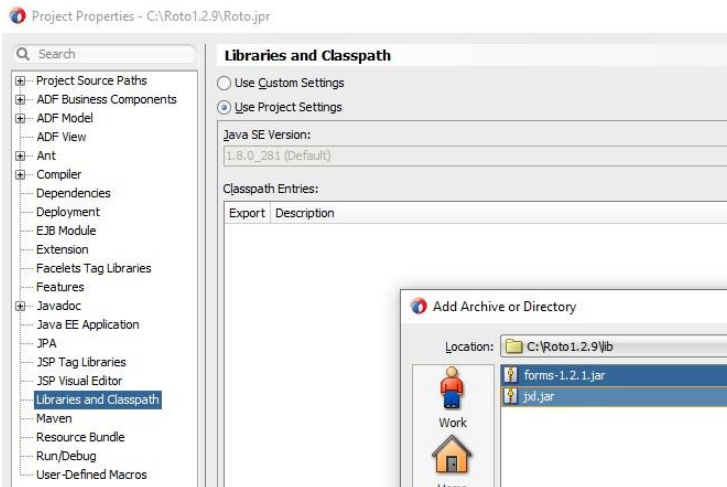
4. Press next to Project Java settings,
   Default package is "roto",
   Java source path example "C:\Roto\src"
   Output directory example "C:\Roto\classes"
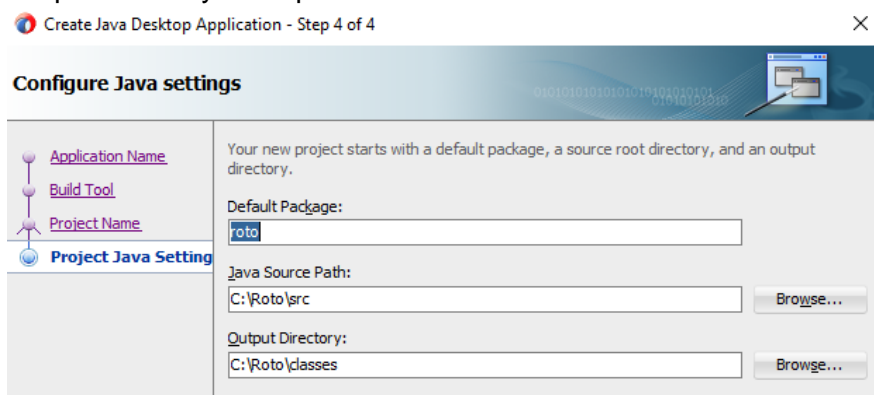
5. Press finish.
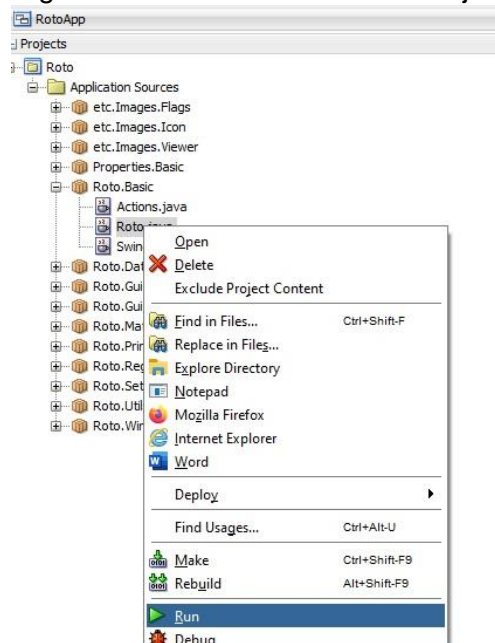6. Right click on the project roto and select Project Properties
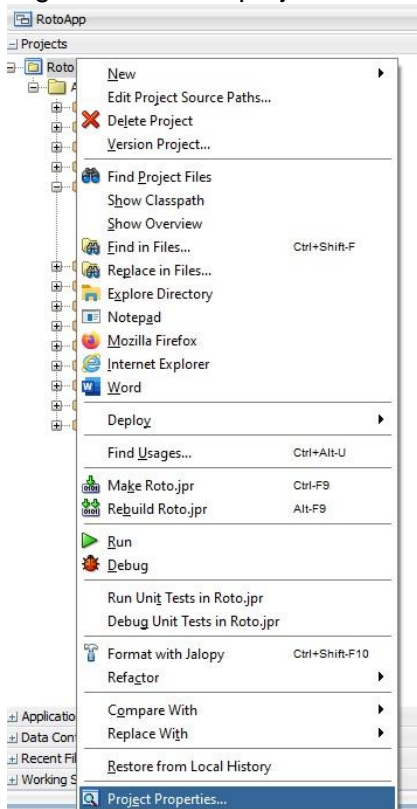
7. Go to the Libraries and Classpath
8. Add JAR/Directory - Select the forms-1.2.1.jar and jxl.jar in the lib directory.

9. Save the project.
10. Right click on the Roto.Basic.Roto.java class and select "Run"

Run application as binary release
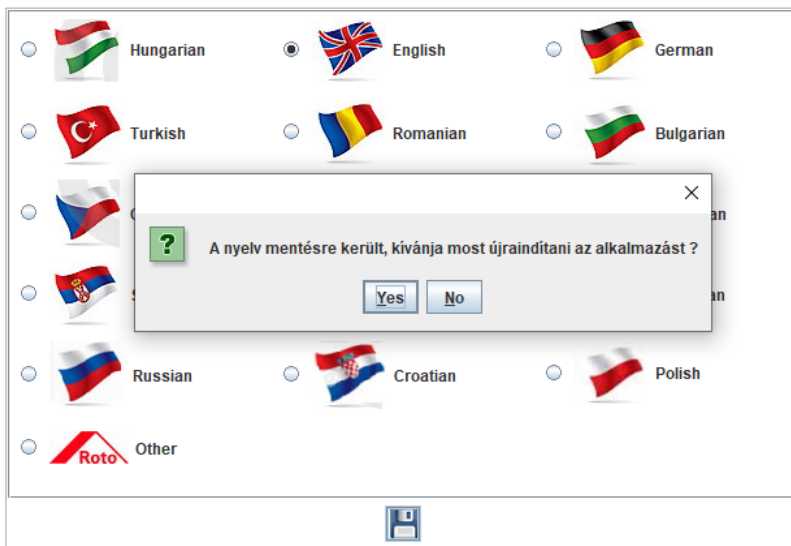Go to the folder Release and start Roto.exe

How to start and register the application for a demo

Change the default language to English
As default, the application is started with Hungarian language. To change the default go to the menu "Beállítások" (Settings), and select "Nyelv" (Language).
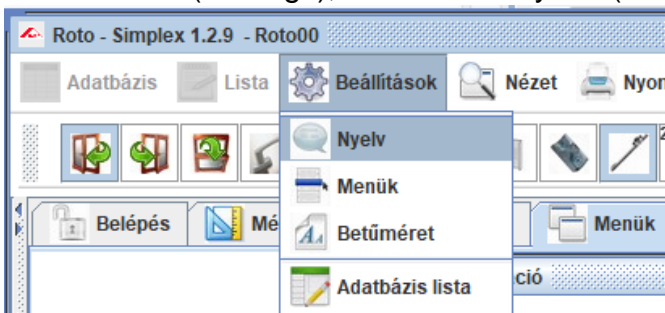
In the displayed dialog select the "English" option, and then press save.

On the displayed dialog select "Yes" to require the restart. If the release is running from an IDE it shall be started manually, in the released application the restart will be done.
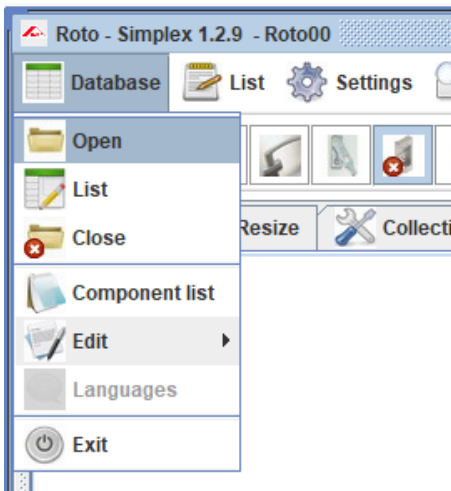
Register for a demo (available for a week)

When the application started at the first time, the registration dialog is displayed.

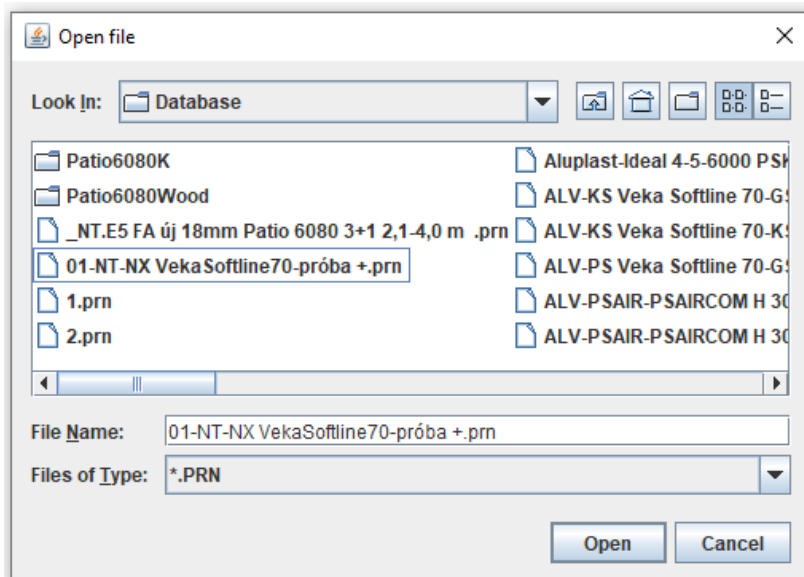Select the option "Demo(7 days)". This will enable the user to use the application for seven days.


Open database

To open a database (text file) go to the menu "Database" and select "Open".

On the displayed dialog select the "01-NT-NX VekaSoftline70-próba +.prn" file from the Database folder.

The window system is opened and displayed on the UI. Now it is possible to change the height / width, change the garniture number, the direction you can add the color, and install some additional parts with clicking on the left side from the toggle button menu items or with drag & drop.
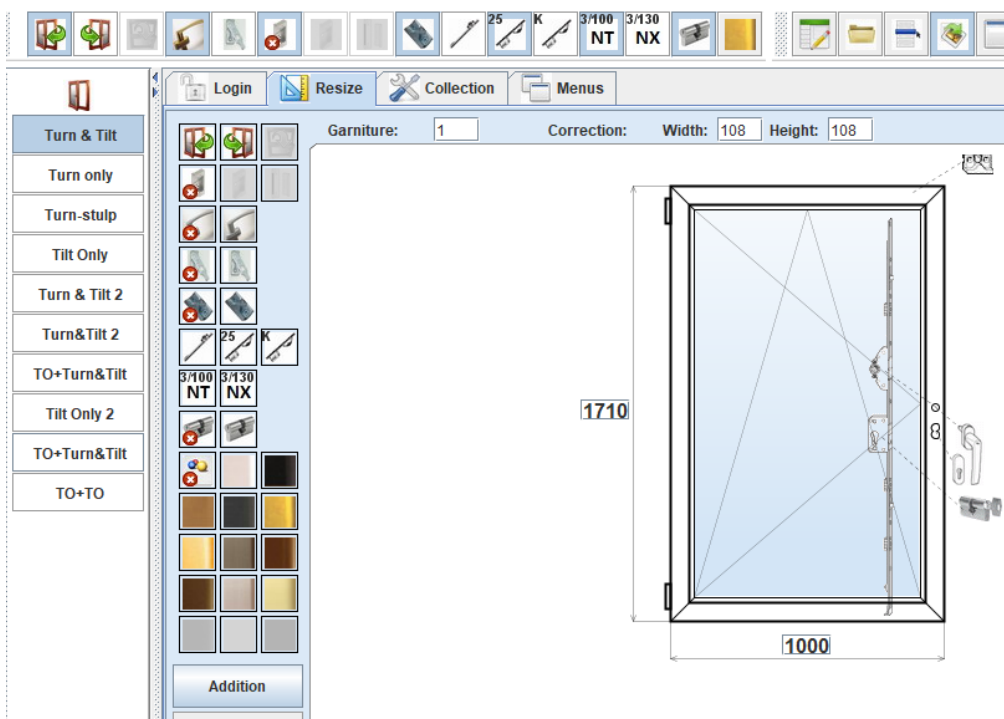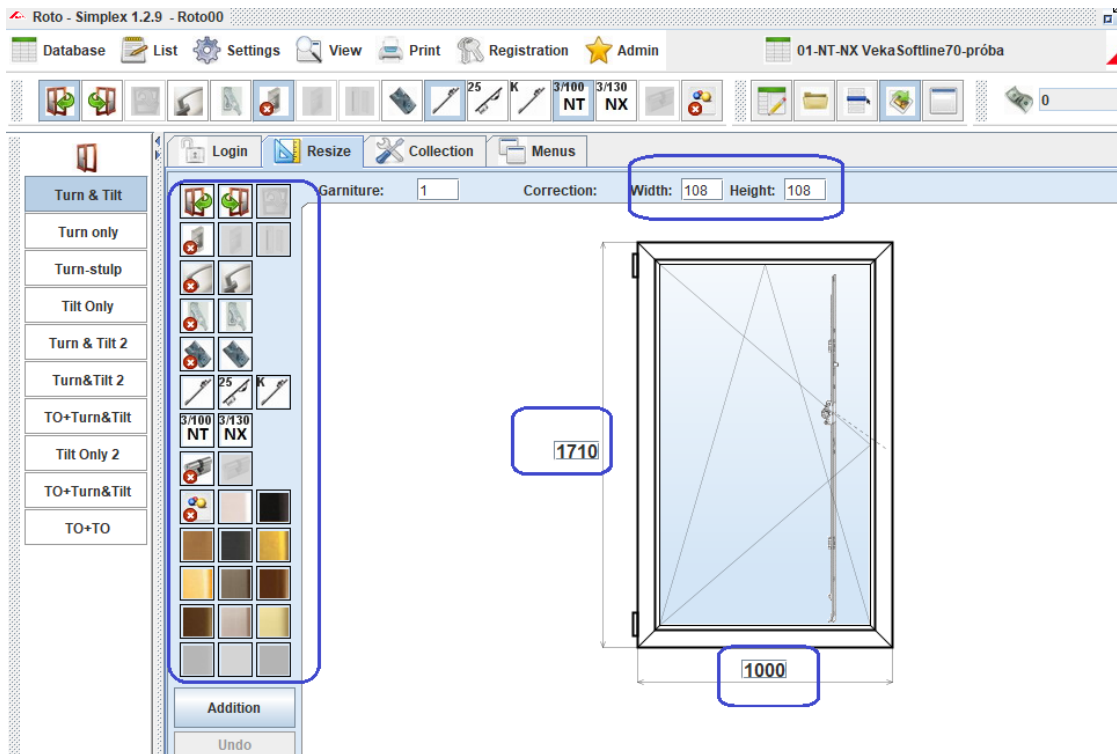
On the left side there is another menu set, where the user can choose the type of the window like Turn & Tilt / Turn only / Turn – stulp etc…
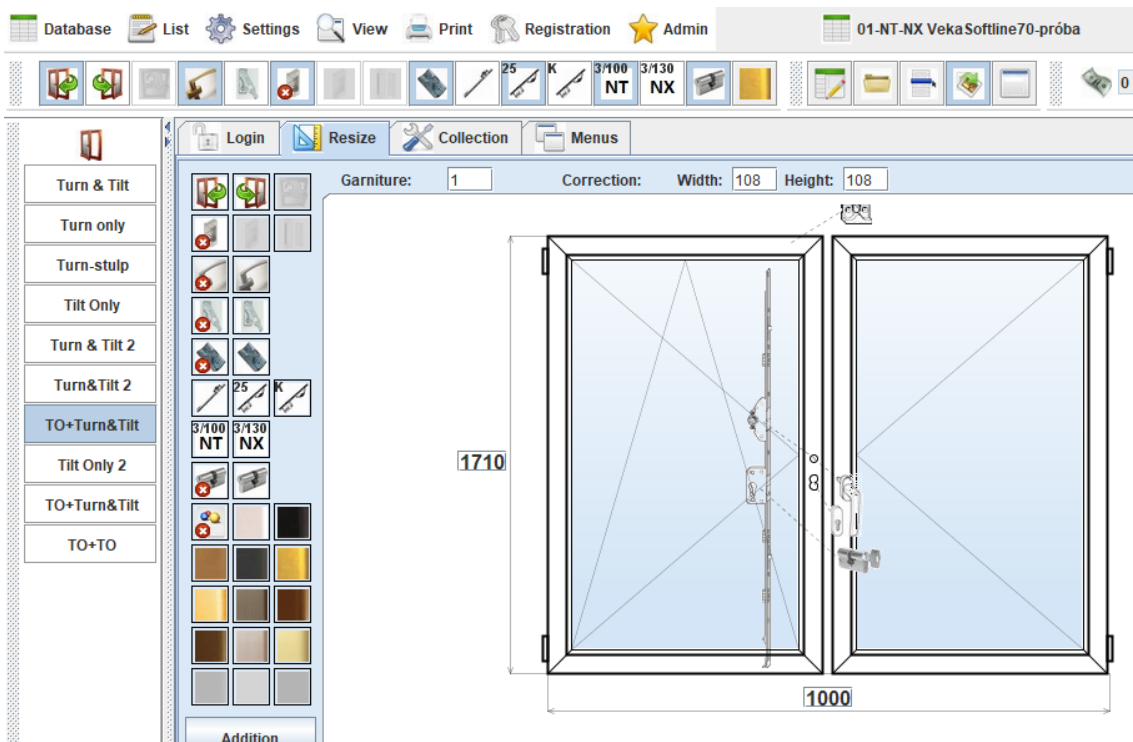
To add the selected window set to the collection list, select the "Addition" button.
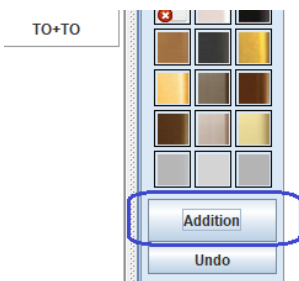
To view the current collection list, go to the menu "View / Print Preview" and select Summarized / Detailed or Garniture options.
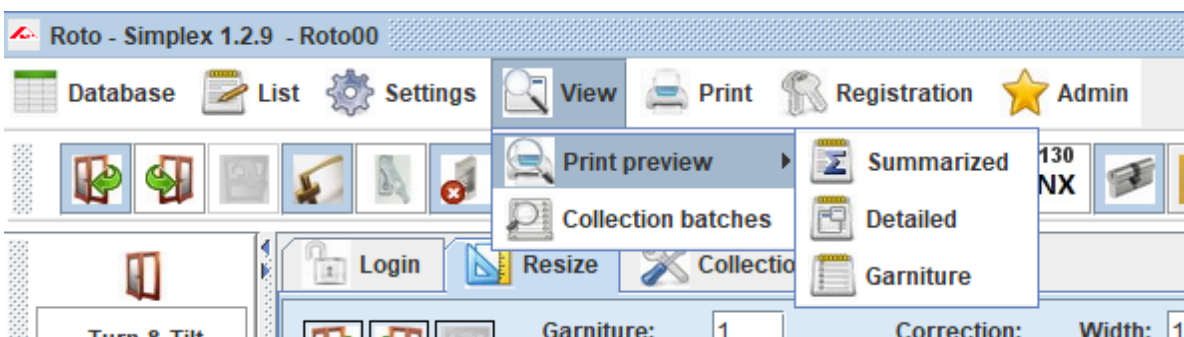
To print (installed default printer required on your OS) the current collection list, go to the menu "Print" and select Summarized / Detailed or Garniture options.

Roto - Simplex 1.2.9 - Roto00

Toolbar: Database | List | Settings | View | Print | Registrati...

Print menu:
- Summarized
- Detailed
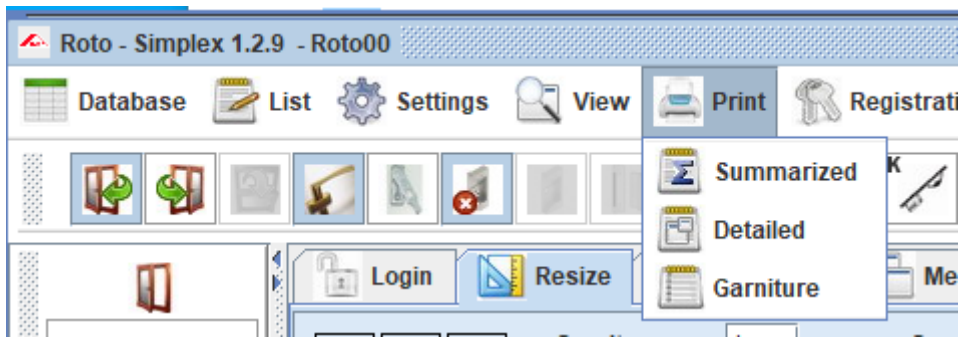- Garniture

Tabs: Login | Resize | Collection | Menus

List

Header

Data

Addresse:	ROTO ELZETT Vasalatkereskedelmi Kft. 9461 Lövő, Kossuth ...
Client:	
Subject:	Order
Delivery dead line:	
E-mail:	revrend1@roto-frank.com
Price list date:	2011.09.09
Total:	28460,00 HUF (+VAT)
Date:	2022.05.08

Comment

◉ Order   ○ Offer

Content

SAP	Piece	Name	List price	Net price	Net sum
SAP	Piece	Name	List price	Net price	Net sum
			HUF	HUF	HUF
227354	2	OLLÓCSAPÁGY CSAP SL .F710D52026	43,00	43,00	86,00
228294	1	ROTOLINE GARN. MATT ARANY .K060B10301	10198,00	10198,00	10198,00
230177	2	OLLÓCSAPÁGY K.3/100 SL .N390A00106	258,00	258,00	516,00
230178	2	OLLÓCSAPÁGY K 6/100 SL (3600).N390A00116	258,00	258,00	516,00
230199	2	OLLÓCSAPÁGYTAK. K R031 .N391A01318	145,00	145,00	290,00
230246	2	OLLÓPÁNTTAKARÓ KSB R031 .N391A03318	100,00	100,00	200,00
230343	2	SAROKPÁNT K.3/100 SL .N510A00156	374,00	374,00	748,00
230420	2	SAROKCSPÁGYTAKARÓ LA.K R031 .N591A01318	126,00	126,00	252,00
230485	2	SAROKPÁNTTAKARÓ K R031 .N591A04318	145,00	145,00	290,00
230640	1	NYÍLÓSZ.PÁNT 12/20-13 SL .N620A06116R	1017,00	1017,00	1017,00
250729	1	RE JT KÖZÉRZ TOKR NT NR211 SL N602A21106	190,00	190,00	190,00

Print

In the settings menu it is also possible to set the Price list type HUF / EUR, set the Currency, Material groups and Rebate options, and some other features.