

Mav's Animal Shelter Software

MASS User Interface – 10 Oct 2019

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Menu Bar

The Headings indicate drop-down menu products on the menu bar, and the words in bold represent the menu products.

The role(s) in parentheses are the roles for which this option is sensitive. It is insensitive for all others.

The text in quotes is the tool tip.

The remaining text is a description of the behavior initiated by that menu product activation.

File

New – (Director) “Create a New Shelter” If the data in the current Shelter has not been saved, offer to Save it, Discard it, or Cancel.

- If Save, perform a File → Save and create a new Shelter only if the save is successful, otherwise cancel the New request.
- If Discard, delete the current Shelter instance.
- If Cancel, don't create a new Shelter.

If not canceled above, first prompt for the new Shelter's name, then start with a brand new, empty Shelter.

Open... - (Director, Manager) “Open an Existing Shelter” If the data in the current Shelter has not been saved, offer to Save it, Discard it, or Cancel exactly as when creating a new Shelter. Then, if not canceled, display a list of saved Shelters using gtkmm’s file chooser dialog, and if the user selects one, load its data into a new instance of Shelter, then set the current Shelter’s filename to the name of the opened file. You will need to create your own file format – a simple text format is recommended.

Save – (Director, Manager) “Save This Shelter’s Data” If a current filename has not been set, treat this exactly as a Save As... selection. Otherwise, save all of the Shelter’s current data to the current filename.

Save As... – (Director, Manager) “Save This Shelter’s Data to a New File” Get an Shelter filename using gtkmm’s file chooser dialog, and then save all of the Shelter’s data to that filename. Then, set the Shelter’s current filename to the selected filename.

Properties... – (All) Display a dialog showing general information about the current Shelter, suitable for viewing by a Client.

Quit – (Director, Manager) “Exit the program”. If the data in the current Shelter has not been saved, offer to Save it, Discard it, or Cancel creating a new Shelter. If Save, save the current Shelter data as if Save were selected. Then, if not Cancel or if data was already saved, exit the program. NOTE: Clicking the “x” in the title bar to close the program should be treated exactly like clicking File → Exit.

Edit

Undo – (All) “Undo the Last Action” Undo the results of the most recent menu selection. The undo list should be cleared when a new role is selected.

Client – (Director, Manager, Staff) “Edit the Properties of a Client” Allow the users to select a person from a list of all active and inactive Clients, then open that Client’s properties in an editable dialog to modify their data. Click Archive to remove an active Client from active lists (except the one presented with this menu product), Restore to move an inactive Client to active status again, OK to save the updated Client properties, or Cancel to leave the properties unchanged.

Staff – (Director, Manager) “Edit the Properties of a Staff” Allow the users to select a person from a list of all active and inactive Staff members, then open that Staff member’s properties in an editable dialog to modify their data. Click Archive to set an active Staff to inactive status and remove them from all lists (except the one presented with this menu), Restore to set an inactive Staff to active status, OK to save the updated Staff properties, or Cancel to leave the properties unchanged.

Manager – (Director) “Edit the Properties of a Manager” Allow the users to select a person from a list of all active and inactive Managers, then open that Manager’s properties in an editable dialog to modify their data. Click Archive to remove an active Manager from active lists (except the one presented with this menu product), Restore to move an inactive Manager back to active status again, OK to save the updated Manager properties, or Cancel to leave the properties unchanged.

Director – (Director) “Edit the Properties of a Director” Allow the users to select a person from a list of all active and inactive Directors, then open that Director’s properties in an editable dialog to modify their data. Click Archive to remove an active Director from active lists (except the one presented with this menu product), Restore to move an inactive Director back to active status again, OK to save the updated Director properties, or Cancel to leave the properties unchanged.

Product – (Manager) “Edit the Properties of an product” Allow the user to select an product from a list of all products, then open that product in an editable dialog to modify all of its data. Click Retire to set the product as Inactive, Restore to set the product as active again, OK to save the updated product properties, or Cancel to leave the properties unchanged.

Client

New... – (All) “Add a New Client” Collect all attributes needed to instance a new Client via a single dialog, and add it to the list of clients.

List – (All) “List All Client Data” OR “List Data for a Client” List all client data as a table in the data area OR present a combo box text of client names and display the data for the selected client in the data area.

Adopt Animal... – (All) “Adopt an Animal” Let the user pick from a list of existing clients, then from a list of available animals. Create a new adoption record for the client adopting that animal. Add a New button in a later release that allows the creation of a new client and / or a new animal as part of creating the adoption record.

List Adopted... – (All) “List Animals Adopted by a Client” Let the user pick from a list of existing clients (if possible, only those clients who have adopted at least one animal), then display a table of all animals that they adopted in the data area.

Animal

New... – (Director, Manager, Staff) “Add a New Animal” The first dialog selects among animal types (e.g., Dog, Cat, or Rabbit). The remaining dialogs collect all attributes needed to instance the new Animal and add it to the list of available animals.

View... - (All) “View Animal” Select an available animal from a dialog, then show all of its attributes *including a photo*.

List Available – (Director, Manager, Staff) “List All Animal Data” List all animal data as a table in the data area.

List Adopted – (All) “List Animals Adopted by a Client” Let the user pick from a list of existing clients (if possible, only those clients who have adopted at least one animal), then display a table of all animals that they adopted in the data area.

Report

Report may be set insensitive for Staff and Clients.

Animals – (Client, Staff) “Show All Animals” Show a table of all currently available animals at the shelter in the data area.

Clients – (Director, Manager) “Show All Client Data” Show a table of all known Client data, including sublists of all of their adoptions, in the data area.

Role

Director – (All) “Login as an Director” Make menu and tool bar actions available to an Director sensitive, all others insensitive. Eventually this should require a password.

Manager – (All) “Login as a Manager” Select the Manager from a list of active Managers, and (eventually) verify their password. If successful, make menu and tool bar actions available to a Manager sensitive, all others insensitive.

Staff – (All) “Login as a Staff” Login as Staff, and (eventually) verify their password. If successful, make all menu and tool bar actions available to a Staff sensitive, all others insensitive.

Client – (All) Select the Client from a list of active Clients, and (eventually) verify their password. If successful, make menu and tool bar actions available to a Client sensitive, all others insensitive.

Help

Manual – (Director, Manager, Staff) “Get Help Using this Program” Open a PDF file into the system viewer with information on using this program.

About... – (All) Open an About Dialog showing the program name, version, your name and student ID, intellectual property acknowledgments, and other pertinent information.

Tool Bar

Tool bar buttons will be provided for the following selections above, with the same sensitivity and tool tips.

File → Open

File → Save

Animal → Adopt (special emphasis of some type)

Animal → New

Animal → List

Client → New

Client → List

Role → Director

Role → Manager

Role → Staff

Role → Client

File → Exit

Main Data Area

The main data area will display the data specified by the current user in a tabular format .

(Hint: Consider a Pango-formatted teletype font, which will enable space-formatted table layout in a Gtk::Label with left alignment.)