Wirtualny dziennik krwiodawcy

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2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

src.database.DatabaseManager.DatabaseManager	18
src.models.Donation.Donation	22
src.models.DonationType.DonationType	3
k.Frame	
DonationCard.DonationCard	23
k.Tk	
App.App	15
k.Toplevel	
AddDonationForm.DonationForm	27
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4 Hierarchical Index

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

App.App	15
src.database.DatabaseManager.DatabaseManager	18
src.models.Donation.Donation	22
DonationCard.DonationCard	23
AddDonationForm.DonationForm	27
src.models.DonationType.DonationType	31
EditDonationForm.EditDonationForm	32
src.models.User.User	36

6 Class Index

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/initpy
src/main.py
src/database/initpy
src/database/DatabaseCreator.py
src/database/DatabaseManager.py
src/frontEnd/AddDonationForm.py
src/frontEnd/App.py
src/frontEnd/DonationCard.py
src/frontEnd/EditDonationForm.py
src/frontEnd/Titlebar.py
src/models/ <u>initpy</u>
src/models/Donation.py
src/models/DonationType.py
src/models/User.py

8 File Index

Namespace Documentation

5.1 AddDonationForm Namespace Reference

Classes

class DonationForm

5.2 App Namespace Reference

Classes

class App

5.3 DonationCard Namespace Reference

Classes

class DonationCard

5.4 EditDonationForm Namespace Reference

Classes

class EditDonationForm

5.5 src Namespace Reference

Namespaces

- · namespace database
- namespace main
- namespace models

5.6 src.database Namespace Reference

Namespaces

- namespace DatabaseCreator
- · namespace DatabaseManager

5.7 src.database.DatabaseCreator Namespace Reference

Functions

- main ()
- initDonationTypes (sqlite3.Cursor cursor)
- initSampleUserWithDonations (sqlite3.Cursor cursor)

5.7.1 Function Documentation

5.7.1.1 initDonationTypes()

Here is the caller graph for this function:



5.7.1.2 initSampleUserWithDonations()

Here is the call graph for this function:



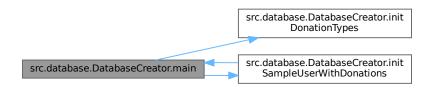
Here is the caller graph for this function:



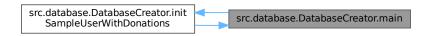
5.7.1.3 main()

```
src.database.DatabaseCreator.main ( )
Initializes the blood donation database.
Creates all necessary tables (donation_types, users, donations),
inserts initial data for donation types, and creates a sample user with donations.
Does not return any value.
```

Here is the call graph for this function:



Here is the caller graph for this function:



5.8 src.database.DatabaseManager Namespace Reference

Classes

• class DatabaseManager

Functions

• "DatabaseManager" getDatabase ()

Variables

• _instance = None

5.8.1 Function Documentation

5.8.1.1 getDatabase()

```
"DatabaseManager" src.database.DatabaseManager.getDatabase ( )

Provides a singleton instance of DatabaseManager.

Creates a new instance if none exists, otherwise returns the existing one.
:return: The DatabaseManager instance.
```

5.8.2 Variable Documentation

5.8.2.1 _instance

src.database.DatabaseManager._instance = None [protected]

5.9 src.main Namespace Reference

Variables

• app = App()

5.9.1 Detailed Description

Main entry point for the blood donation management application.

This script initializes and runs the main application window, starting the ${\tt GUI}$ event loop for user interaction.

5.9.2 Variable Documentation

5.9.2.1 app

```
src.main.app = App()
```

5.10 src.models Namespace Reference

Namespaces

- namespace Donation
- namespace DonationType
- namespace User

5.10.1 Detailed Description

```
Module exports for the models package.

Defines which classes are available when importing from the models package.
```

5.11 src.models.Donation Namespace Reference

Classes

class Donation

5.12 src.models.DonationType Namespace Reference

Classes

class DonationType

5.13 src.models.User Namespace Reference

Classes

· class User

5.14 Titlebar Namespace Reference

Functions

• darkTitleBar (window)

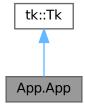
5.14.1 Function Documentation

5.14.1.1 darkTitleBar()

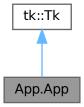
Class Documentation

6.1 App.App Class Reference

Inheritance diagram for App.App:



Collaboration diagram for App.App:



Public Member Functions

- __init__ (self)
- fillDonationCardContent (self)
- showCard (self, cardNumber)

Public Attributes

- · cards
- buttonFrame
- cardContent

6.1.1 Detailed Description

Main application class for managing blood donation records.

This class initializes the main window of the application, sets up the UI, and manages the display of donation cards for different types of blood donations. It uses Tkinter for the graphical interface and interacts with the database to fetch and display donation data.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 __init__()

Initializes the main application window.

Sets up the window title, size, and style, and creates a frame for navigation buttons. Instantiates donation cards for each donation type and populates them with data from the database. Each card is associated with a button that allows the user to display the corresponding donation data.

Here is the call graph for this function:



Here is the caller graph for this function:



6.1.3 Member Function Documentation

6.1.3.1 fillDonationCardContent()

```
App.App.fillDonationCardContent ( self\ ) Function, that fetches all the donations information from the database. :return: Data about donations from the database.
```

6.1.3.2 showCard()

```
App.App.showCard (

self,
cardNumber )

Shows the DonationCard for the cardNumber instance.
:param cardNumber: Number of the DonationCard:

1-Krew pełna,
2-Osocze,
3-Płytki krwi,
4-Krwiniki czerwone,
5-Krwinki białe,
6-Osocze i płytki
```

6.1.4 Member Data Documentation

6.1.4.1 buttonFrame

App.App.buttonFrame

6.1.4.2 cardContent

 ${\tt App.App.cardContent}$

6.1.4.3 cards

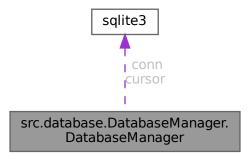
App.App.cards

The documentation for this class was generated from the following file:

src/frontEnd/App.py

6.2 src.database.DatabaseManager.DatabaseManager Class Reference

Collaboration diagram for src.database.DatabaseManager.DatabaseManager:



Public Member Functions

- init (self)
- User None fetchUser (self, int userId)
- list[Donation] fetchAllDonations (self)
- list[Donation] fetchUserDonations (self, int userId)
- list[DonationType] fetchDonationTypes (self)
- int|None addUser (self, User user)
- int|None addDonation (self, Donation donation)
- editUser (self, int userId, User user)
- editDonation (self, int donationId, Donation donation)
- deleteDonation (self, int donationId)

Public Attributes

- conn
- cursor
- · donation_types

Static Public Attributes

- str PATH = "database/blood_draws.db"
- list blood_types [BloodType]
- list donation_types [DonationType]
- sqlite3 conn .Connection
- · sqlite3 cursor .Cursor

6.2.1 Detailed Description

Manages database connections and operations for blood donation records.

Handles creation, retrieval, update, and deletion of users, donations, and donation types.

6.2.2 Constructor & Destructor Documentation

6.2.3 Member Function Documentation

6.2.3.1 addDonation()

6.2.3.2 addUser()

6.2.3.3 deleteDonation()

6.2.3.4 editDonation()

```
src.database.DatabaseManager.DatabaseManager.editDonation (
             int donationId,
             Donation donation )
Updates an existing donation.
:param donationId: The ID of the donation to update.
:param donation: The Donation object with updated data.
6.2.3.5 editUser()
src.database.DatabaseManager.DatabaseManager.editUser (
             self,
             int userId,
             User user )
Updates an existing user.
:param userId: The ID of the user to update.
:param user: The User object with updated data.
6.2.3.6 fetchAllDonations()
list[Donation] src.database.DatabaseManager.DatabaseManager.fetchAllDonations (
              self )
Retrieves all donation records.
:return: List of all Donation objects.
6.2.3.7 fetchDonationTypes()
list[DonationType] src.database.DatabaseManager.DatabaseManager.fetchDonationTypes (
              self )
Retrieves all donation types.
:return: List of all DonationType objects.
6.2.3.8 fetchUser()
User | None src.database.DatabaseManager.DatabaseManager.fetchUser (
              self,
             int userId )
Retrieves a user by user ID.
:param userId: The ID of the user to fetch.
```

:return: The User object if found, otherwise None.

6.2.3.9 fetchUserDonations()

6.2.4 Member Data Documentation

6.2.4.1 blood_types

list src.database.DatabaseManager.DatabaseManager.blood_types [BloodType] [static]

6.2.4.2 conn [1/2]

sqlite3 src.database.DatabaseManager.DatabaseManager.conn .Connection [static]

6.2.4.3 conn [2/2]

src.database.DatabaseManager.DatabaseManager.conn

6.2.4.4 cursor [1/2]

sqlite3 src.database.DatabaseManager.DatabaseManager.cursor .Cursor [static]

6.2.4.5 cursor [2/2]

 $\verb|src.database.DatabaseManager.DatabaseManager.cursor|\\$

6.2.4.6 donation_types [1/2]

list src.database.DatabaseManager.DatabaseManager.donation_types [DonationType] [static]

6.2.4.7 donation_types [2/2]

 $\verb|src.database.DatabaseManager.DatabaseManager.donation_types|$

6.2.4.8 PATH

```
str src.database.DatabaseManager.DatabaseManager.PATH = "database/blood_draws.db" [static]
```

The documentation for this class was generated from the following file:

src/database/DatabaseManager.py

6.3 src.models.Donation.Donation Class Reference

Public Member Functions

- __init__ (self, int donation_typeID, int amount, str date, int userID, int donationID=-1)
- setID (self, int donnation_id)

Public Attributes

· donationID

6.3.1 Detailed Description

```
Represents a blood donation record.

Attributes:
    donationID: The unique identifier for the donation.
    donation_typeID: The type of donation.
    amount: The amount of blood donated.
    date: The date of the donation.
    userID: The ID of the user who donated.
```

6.3.2 Constructor & Destructor Documentation

6.3.2.1 __init__()

6.3.3 Member Function Documentation

6.3.3.1 setID()

6.3.4 Member Data Documentation

6.3.4.1 donationID

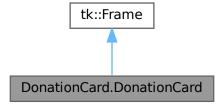
```
src.models.Donation.Donation.donationID
```

The documentation for this class was generated from the following file:

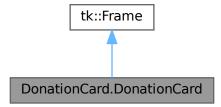
• src/models/Donation.py

6.4 DonationCard.DonationCard Class Reference

Inheritance diagram for DonationCard.DonationCard:



Collaboration diagram for DonationCard.DonationCard:



Public Member Functions

- __init__ (self, parent, data, title, donation_typeID, db)
- insertData (self, data)
- onAddEntry (self)
- onEditEntry (self)
- onDeleteEntry (self)
- show (self)
- hide (self)

Public Attributes

- data
- · donation typeID
- title
- db
- tree

6.4.1 Detailed Description

GUI component for displaying and managing donation entries of a specific blood donation type.

This class creates a card interface using Tkinter's Frame widget that shows donation records in a Treeview. It provides functionality to add, edit, delete, and view donation entries associated with a particular donation. The card is styled with a dark theme and interacts with a database to update donation data.

6.4.2 Constructor & Destructor Documentation

```
6.4.2.1 __init__()
```

Initializes the DonationCard GUI component.

Sets up the card with a dark-themed Treeview to display donation entries for a specific blood donation type. Creates buttons for adding, editing, deleting, and closing the card. Initializes the card with provided data, title, donation type ID, and database connection.

:param parent: The parent widget in which this card will be placed.
:param data: List of donation entries to display.
:param title: Title of the card, displayed at the top.
:param donation_typeID: The ID of the donation type this card represents.

:param db: Database connection object for data operations.

Here is the call graph for this function:



Here is the caller graph for this function:



6.4.3 Member Function Documentation

6.4.3.1 hide()

```
DonationCard.DonationCard.hide ( self\ ) Hides the card from view.
```

6.4.3.2 insertData()

6.4.3.3 onAddEntry()

```
DonationCard.DonationCard.onAddEntry ( self\ ) Opens the form for adding a new donation entry.
```

6.4.3.4 onDeleteEntry()

```
DonationCard.DonationCard.onDeleteEntry ( self \ ) Deletes the selected donation entry from the database and the Treeview. If no entry is selected, prints a message to the console.
```

6.4.3.5 onEditEntry()

```
DonationCard.DonationCard.onEditEntry ( self\ ) Opens the form for editing the selected donation entry. If no entry is selected, prints a message to the console.
```

6.4.3.6 show()

```
\label{eq:conditionCard.Show} \mbox{ DonationCard.Show (} \\ self \mbox{ )}
```

Makes the card visible and brings it to the front.

6.4.4 Member Data Documentation

6.4.4.1 data

 ${\tt DonationCard.DonationCard.data}$

6.4.4.2 db

DonationCard.DonationCard.db

6.4.4.3 donation_typeID

 ${\tt DonationCard.DonationCard.donation_typeID}$

6.4.4.4 title

DonationCard.DonationCard.title

6.4.4.5 tree

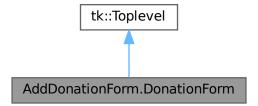
DonationCard.DonationCard.tree

The documentation for this class was generated from the following file:

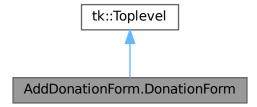
• src/frontEnd/DonationCard.py

6.5 AddDonationForm.DonationForm Class Reference

Inheritance diagram for AddDonationForm.DonationForm:



 $Collaboration\ diagram\ for\ Add Donation Form. Donation Form:$



Public Member Functions

- __init__ (self, parent, donation_typeID)
- setFullscreenOverlay (self)
- updateOverLayPosition (self)
- onClose (self)
- createWidgets (self)
- onSubmit (self)

Public Attributes

- · donation_typeID
- parent
- onClose
- main_window
- · entries

Protected Attributes

• _bind_id

6.5.1 Detailed Description

A form window for creating new blood donation entries.

This class provides a modal overlay form that allows users to input new donation data for a specific donation type. The form is centered over the parent card and follows the parent window when it is moved or resized.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 __init__()

Here is the call graph for this function:



Here is the caller graph for this function:



6.5.3 Member Function Documentation

6.5.3.1 createWidgets()

```
\label{local_point} \mbox{AddDonationForm.createWidgets (} \\ self \mbox{)}
```

Creates and lays out the widgets for the donation form.

Includes entry fields for amount, date, and user ID, as well as submit and cancel buttons.

6.5.3.2 onClose()

```
\label{eq:ddDonationForm.onClose} \mbox{AddDonationForm.onClose (} \\ self \mbox{)}
```

Cleans up resources and closes the form $\ensuremath{\mathsf{window}}\xspace.$

Unbinds from the parent window's movement events and destroys the form.

6.5.3.3 onSubmit()

```
AddDonationForm.DonationForm.onSubmit ( self\ ) Handles the submission of the donation form.   
Validates the input, creates a new donation record in the database, and updates the parent card's data. Closes the form when done.
```

6.5.3.4 setFullscreenOverlay()

```
\label{locationForm.DonationForm.setFullscreenOverlay} \mbox{ (} \\ self \mbox{ )}
```

Makes the form overlay cover the entire parent window and binds to the parent's movement events.

The overlay is positioned and sized to match the parent window, and will update its position whenever the parent window is moved or resized.

6.5.3.5 updateOverLayPosition()

```
AddDonationForm.DonationForm.updateOverLayPosition ( self \ ) Updates the overlay's position and size to match the parent window. :param event: The event that triggered this update (optional).
```

6.5.4 Member Data Documentation

6.5.4.1 bind id

AddDonationForm.DonationForm._bind_id [protected]

6.5.4.2 donation_typeID

AddDonationForm.DonationForm.donation_typeID

6.5.4.3 entries

AddDonationForm.DonationForm.entries

6.5.4.4 main_window

 $\verb|AddDonationForm.DonationForm.main_window| \\$

6.5.4.5 onClose

AddDonationForm.DonationForm.onClose

6.5.4.6 parent

AddDonationForm.DonationForm.parent

The documentation for this class was generated from the following file:

src/frontEnd/AddDonationForm.py

6.6 src.models.DonationType.DonationType Class Reference

Public Member Functions

- __init__ (self, int donationTypeId, str name, int maxDonationAmount)
- toDict (self)

Public Attributes

- id
- name

6.6.1 Detailed Description

```
Represents a type of blood donation.

Attributes:
    id: The unique identifier for the donation type.
    name: The name of the donation type.
    max_amount: The maximum amount that can be donated for this type.
```

6.6.2 Constructor & Destructor Documentation

6.6.2.1 __init__()

6.6.3 Member Function Documentation

6.6.3.1 toDict()

6.6.4 Member Data Documentation

6.6.4.1 id

```
src.models.DonationType.DonationType.id
```

6.6.4.2 name

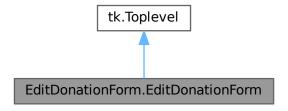
```
src.models.DonationType.DonationType.name
```

The documentation for this class was generated from the following file:

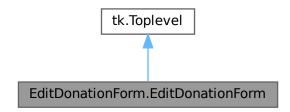
src/models/DonationType.py

6.7 EditDonationForm.EditDonationForm Class Reference

Inheritance diagram for EditDonationForm.EditDonationForm:



Collaboration diagram for EditDonationForm. EditDonationForm:



Public Member Functions

- __init__ (self, parent, donation_data)
- setFullscreenOverlay (self)
- updateOverlayPosition (self)
- onClose (self)
- createWidgets (self)
- onSubmit (self)

Public Attributes

- parent
- · donation_data
- onClose
- main_window
- entries

Protected Attributes

• _bind_id

6.7.1 Detailed Description

A modal form for editing existing blood donation entries.

This class provides a modal overlay window that allows users to modify the details of a selected donation. The form is styled with a dark theme and updates the database and parent card data upon submission.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 __init__()

Here is the call graph for this function:



Here is the caller graph for this function:



6.7.3 Member Function Documentation

EditDonationForm.EditDonationForm.createWidgets (

6.7.3.1 createWidgets()

```
self) Creates and lays out the widgets for the edit donation form. Includes entry fields for amount, date, and user ID, as well as save and cancel buttons. The fields are pre-filled with the current donation data.
```

6.7.3.2 onClose()

```
EditDonationForm.EditDonationForm.onClose ( self\ ) Cleans up resources and closes the form window. Unbinds from the parent window's movement events and destroys the form.
```

6.7.3.3 onSubmit()

```
EditDonationForm.EditDonationForm.onSubmit ( self \ ) Handles the submission of the edit donation form.   
Validates the input, updates the donation record in the database, and refreshes the parent card's data. Closes the form when done. :raises ValueError: If input validation fails.
```

6.7.3.4 setFullscreenOverlay()

```
\label{thm:continuous} \mbox{EditDonationForm.setFullscreenOverlay (} \\ self \mbox{ )}
```

Makes the form overlay cover the entire parent window and binds to the parent's movement events.

The overlay is positioned and sized to match the parent window, and will update its position whenever the parent window is moved or resized.

6.7.3.5 updateOverlayPosition()

```
\label{thm:porm.updateOverlayPosition} \mbox{EditDonationForm.updateOverlayPosition (} \\ self \mbox{)}
```

Updates the overlay's position and size to match the parent window.

6.7.4 Member Data Documentation

6.7.4.1 bind id

EditDonationForm.EditDonationForm._bind_id [protected]

6.7.4.2 donation_data

 ${\tt EditDonationForm.EditDonationForm.donation_data}$

6.7.4.3 entries

EditDonationForm.EditDonationForm.entries

6.7.4.4 main_window

EditDonationForm.EditDonationForm.main_window

6.7.4.5 onClose

EditDonationForm.EditDonationForm.onClose

6.7.4.6 parent

EditDonationForm.EditDonationForm.parent

The documentation for this class was generated from the following file:

• src/frontEnd/EditDonationForm.py

6.8 src.models.User.User Class Reference

Public Member Functions

- __init__ (self, str name, str lastName, int age, int userID=-1)
- toDict (self)
- __str__ (self)
- setID (self, int user_id)

Public Attributes

- id
- name
- · last name
- age

6.8.1 Detailed Description

```
Represents a user in the blood donation system.

Attributes:
   id: The unique identifier for the user.
   name: The user's first name.
   last_name: The user's last name.
   age: The user's age.
```

6.8.2 Constructor & Destructor Documentation

:param userID: The unique identifier for the user (default: -1).

6.8.3 Member Function Documentation

```
6.8.3.1 __str__()
```

6.8.2.1 __init__()

6.8.3.2 setID()

6.8.3.3 toDict()

```
\begin{tabular}{ll} src.models.User.User.toDict ( & self ) \\ \\ Converts the user to a dictionary. \\ \\ :return: A dictionary representing the user. \\ \end{tabular}
```

6.8.4 Member Data Documentation

6.8.4.1 age

src.models.User.User.age

6.8.4.2 id

src.models.User.User.id

6.8.4.3 last_name

src.models.User.User.last_name

6.8.4.4 name

src.models.User.User.name

The documentation for this class was generated from the following file:

• src/models/User.py

Chapter 7

File Documentation

- 7.1 src/__init__.py File Reference
- 7.2 src/database/__init__.py File Reference
- 7.3 src/models/__init__.py File Reference

Namespaces

- namespace src
- namespace src.models

7.4 src/database/DatabaseCreator.py File Reference

Namespaces

- namespace src
- namespace src.database
- namespace src.database.DatabaseCreator

Functions

- src.database.DatabaseCreator.main ()
- src.database.DatabaseCreator.initDonationTypes (sqlite3.Cursor cursor)
- src.database.DatabaseCreator.initSampleUserWithDonations (sqlite3.Cursor cursor)

7.5 src/database/DatabaseManager.py File Reference

Classes

• class src.database.DatabaseManager.DatabaseManager

40 File Documentation

Namespaces

- namespace src
- namespace src.database
- namespace src.database.DatabaseManager

Functions

• "DatabaseManager" src.database.DatabaseManager.getDatabase ()

Variables

• src.database.DatabaseManager._instance = None

7.6 src/frontEnd/AddDonationForm.py File Reference

Classes

class AddDonationForm.DonationForm

Namespaces

• namespace AddDonationForm

7.7 src/frontEnd/App.py File Reference

Classes

class App.App

Namespaces

namespace App

7.8 src/frontEnd/DonationCard.py File Reference

Classes

· class DonationCard.DonationCard

Namespaces

• namespace DonationCard

7.9 src/frontEnd/EditDonationForm.py File Reference

Classes

· class EditDonationForm.EditDonationForm

Namespaces

• namespace EditDonationForm

7.10 src/frontEnd/Titlebar.py File Reference

Namespaces

· namespace Titlebar

Functions

Titlebar.darkTitleBar (window)

7.11 src/main.py File Reference

Namespaces

- namespace src
- · namespace src.main

Variables

• src.main.app = App()

7.12 src/models/Donation.py File Reference

Classes

· class src.models.Donation.Donation

Namespaces

- namespace src
- · namespace src.models
- namespace src.models.Donation

42 File Documentation

7.13 src/models/DonationType.py File Reference

Classes

• class src.models.DonationType.DonationType

Namespaces

- namespace src
- namespace src.models
- namespace src.models.DonationType

7.14 src/models/User.py File Reference

Classes

• class src.models.User.User

Namespaces

- namespace src
- namespace src.models
- namespace src.models.User

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