

Generated on Sun Nov 19 2023 16:17:01 for Apos - Database Manager by Doxygen 1.9.8

Sun Nov 19 2023 16:17:01

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Contributing to Apos - Database Manager

Thank you for considering contributing to Apos – Database Manager. It is people like you that make Apos—← Database Manager such a great tool.

1.1 Where do I go from here?

If you've noticed a bug or have a feature request, make one! It is generally best if you get confirmation of your bug or approval for your feature request this way before starting to code.

1.2 Fork & create a branch

If this is something you think you can fix, then fork and create a branch with a descriptive name. A good branch name would be (where issue #325 is the ticket you're working on):
git checkout -b 325-add-japanese-translations

1.3 Get the test suite running

Make sure you're using the latest version of Node.js and npm. Install the project's dependencies: npm install

Run the test suite to ensure everything is working correctly: $_{\tt npm\ test}$

1.4 Implement your fix or feature

At this point, you're ready to make your changes! Feel free to ask for help; everyone is a beginner at first.

1.5 Make a Pull Request

At this point, you should switch back to your main branch and make sure it is up to date with the latest code from the main repository:

```
git remote add upstream git@github.com:DefinitelyNotSimon13/Apos.git git checkout main git pull upstream main
```

Then update your feature branch from your local copy of main, and push it!

```
git checkout 325-add-japanese-translations
git rebase main
git push --set-upstream origin 325-add-japanese-translations
```

Go to the Apos – Database Manager repository and create a new Pull Request. Fill out the form and wait for the approval!

1.6 Keeping your Pull Request updated

If a maintainer asks you to "rebase" your PR, they're saying that a lot of code has changed, and that you need to update your branch, so it's easier to merge.

To learn more about rebasing in Git, there are a lot of good resources but here's the suggested workflow:

```
git checkout 325-add-japanese-translations
git pull --rebase upstream main
git push --force-with-lease 325-add-japanese-translations
```

1.7 Merging a PR (maintainers only)

A PR can only be merged into main by a maintainer if:

- · It is passing CI.
- It has been approved by at least two maintainers. If it was a maintainer who opened the PR, only one extra approval is needed.
- It has no requested changes.
- · It is up to date with the current main.

Any maintainer is allowed to merge a PR if these conditions are met.

This CONTRIBUTING.md file provides a guide for contributors on how to create a branch, run the test suite, implement a fix or feature, make a pull request, and keep a pull request updated. It also provides instructions for maintainers on how to merge a pull request.

Apos - Database Manager

Developed by Simon Blum, Apos - Database Manager is a comprehensive Windows application designed to manage SQLite3 databases.

The application provides an intuitive and user-friendly interface for performing a variety of database operations. Whether you need to open, read, edit tables, or execute custom SQLite3 commands, Apos - Database Manager has got you covered.

The name "Apos" is inspired by the ancient Greek word "", which translates to "storage" or "warehouse".

2.1 Key Features

- Efficient Database Operations: Open, read, and edit tables within SQLite3 databases with ease.
- Custom SQLite3 Commands: Execute custom SQLite3 commands for advanced database operations.
- Intuitive User Interface: Navigate through the application effortlessly with the GUI, built using the Qt framework.

2.2 Prerequisites

· Windows Operating System

2.3 Installation

To install Apos - Database Manager, follow these steps:

- 1. Navigate to the Releases page.
- 2. Download the latest installer.
- 3. Run the installer and follow the on-screen instructions.

2.4 Usage

- 1. **Opening a Database**: Launch the application and click on the "Open Database" button to select the desired SQLite3 database file.
- Executing Commands: Enter custom SQLite3 commands in the "Command Box" and click the "Execute" button
- 3. **Managing Tables**: Use the GUI to perform various table operations such as "Add," "Update," and "Select Table".

2.5 Project Structure

The project is organized into several directories:

- /source: Contains the main entry point for the application (main.cpp).
- /classes/backendClasses: Contains classes related to the backend logic of the application, such as StartupHandler and ObjectHandler.
- /classes/frontendClasses: Contains classes related to the frontend logic of the application, such as WindowHandler and various window classes.
- /classes/databaseClasses: Contains classes related to database operations, such as DatabaseHandler and TableHandler.
- /resources: Stores additional resources used by the application, such as translation files and the application logo.
- /docs: Contains the Doxygen-generated documentation for the project.

2.6 Documentation

Comprehensive documentation for Apos - Database Manager is available on the GitHub Pages website and in the /docs directory of this repository.

2.7 Contributing

As a solo developer, I welcome contributions to the project! Please refer to the Contribution Guidelines for details.

2.8 License

Apos - Database Manager is licensed under the LGPL-3.0 License.

2.9 Acknowledgments

- · A big thank you to the Qt framework community for their invaluable resources and support.
- [Any other acknowledgments or credits]

Topic Index

3.1 Topics

Here is a list of all topics with brief descriptions:

onstructors and Desctructors
tabase Functions
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Namespace Index

4.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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AposFrontend .								 							 								61
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Hierarchical Index

5.1 Class Hierarchy

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

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AposDatabase::TableHandler				 			 										71
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AposFrontend::SettingsWindow				 										 			82

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Class Index

6.1 Class List

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

AposBackend::ObjectHandler	
Part of the application's backend logic	65
AposBackend::StartupHandler	
Provides the functionality for initializing the application's translator and ObjectHandler	68
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Provides the functionality for initializing and closing the database, executing SQL commands,	
and getting the active database and SQL error	69
AposDatabase::TableHandler	
Provides the functionality for generating a table model, inserting into a table, and getting the	
active table name, table model, and last table error	71
AposFrontend::DevWindow	
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AposFrontend::SettingsWindow	
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Provides the functionality for managing the application's windows	86

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File Index

7.1 File List

Here is a list of all files with brief descriptions:

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Source file for the ObjectHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/objecthandler.hpp
Header file for the ObjectHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/startuphandler.cpp
Source file for the StartupHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/startuphandler.hpp
Header file for the StartupHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/databasehandler.cpp
Source file for the DatabaseHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/databasehandler.hpp
Header file for the DatabaseHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/tablehandler.cpp
Source file for the TableHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/tablehandler.hpp
Header file for the TableHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/devwindow.cpp
Source file for the DevWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/devwindow.hpp
Header file for the DevWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/launcherwindow.cpp
Source file for the LauncherWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/launcherwindow.hpp
Header file for the LauncherWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/settingswindow.cpp
Source file for the SettingsWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/settingswindow.hpp
Header file for the SettingsWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/translatablewindow.cpp
Source file for the TranslatableWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/translatablewindow.hpm
Header file for the TranslatableWindow class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/windowhandler.cpp
Source file for the WindowHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/windowhandler.hpp
Header file for the WindowHandler class
C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/source/main.cpp
Main entry point for the application

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Topic Documentation

8.1 Constructors and Desctructors

Group of constructors and destructors in the application.

Functions

AposBackend::ObjectHandler::ObjectHandler (QSharedPointer < QApplication > newApplication, QShared ←
 Pointer < AposDatabase::DatabaseHandler > newDbHandler, QSharedPointer < AposDatabase::TableHandler
 > newTableHandler)

Constructor for the ObjectHandler class.

AposBackend::StartupHandler::StartupHandler (const QSharedPointer< QApplication) & application)

Constructor for the StartupHandler class.

AposDatabase::DatabaseHandler::DatabaseHandler()

Constructor for the DatabaseHandler class.

AposDatabase::TableHandler::TableHandler (QSharedPointer < DatabaseHandler > newDbHandler)

Constructor for the TableHandler class.

 AposDatabase::TableHandler::TableHandler (QSharedPointer< DatabaseHandler > newDbHandler, const QString &tableName)

Constructor for the TableHandler class.

AposDatabase::TableHandler::~TableHandler ()

Destructor for the TableHandler class.

AposFrontend::DevWindow::DevWindow (QWidget *parent=nullptr, QSharedPointer< AposBackend::ObjectHandler > objectHandler=nullptr)

Constructor for the DevWindow class.

AposFrontend::DevWindow::~DevWindow () override

Destructor for the DevWindow class.

AposFrontend::LauncherWindow::LauncherWindow (QWidget *parent=nullptr, QSharedPointer< AposBackend::ObjectHandler
 > newObjectHandler=nullptr)

Constructor for the LauncherWindow class.

AposFrontend::LauncherWindow::~LauncherWindow () override

Destructor for the LauncherWindow class.

AposFrontend::SettingsWindow::SettingsWindow (QWidget *parent=nullptr, QSharedPointer< AposBackend::ObjectHandler > newObjectHandler=nullptr)

Constructor for the SettingsWindow class.

AposFrontend::SettingsWindow::~SettingsWindow () override

Destructor for the SettingsWindow class.

AposFrontend::TranslatableWindow::TranslatableWindow()

Constructor for the TranslatableWindow class.

AposFrontend::WindowHandler::WindowHandler (QSharedPointer< AposBackend::ObjectHandler > new←
 ObjectHandler)

Constructor for the WindowHandler class.

8.1.1 Detailed Description

Group of constructors and destructors in the application.

This group contains all the constructors and destructors used in the application. These functions are responsible for initializing and cleaning up objects.

8.1.2 Function Documentation

8.1.2.1 DatabaseHandler()

```
AposDatabase::DatabaseHandler::DatabaseHandler ( ) [default]
```

Constructor for the DatabaseHandler class.

This constructor initializes the DatabaseHandler object.

8.1.2.2 DevWindow()

Constructor for the **DevWindow** class.

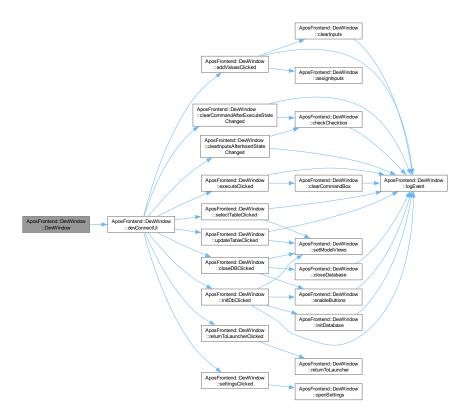
This constructor initializes the DevWindow object with a parent widget and an ObjectHandler object.

Parameters

parent	Pointer to the parent widget.
objectHandler	Shared pointer to the ObjectHandler object.

Definition at line 23 of file devwindow.cpp.

Here is the call graph for this function:



8.1.2.3 LauncherWindow()

Constructor for the LauncherWindow class.

This constructor initializes the LauncherWindow object with a parent widget and an ObjectHandler object.

Parameters

parent	Pointer to the parent widget.
newObjectHandler	Shared pointer to the ObjectHandler object.

Definition at line 26 of file launcherwindow.cpp.

Here is the call graph for this function:



8.1.2.4 ObjectHandler()

Constructor for the ObjectHandler class.

This constructor initializes the ObjectHandler object with a QApplication object, a DatabaseHandler object, and a TableHandler object.

Parameters

newApplication	Shared pointer to the QApplication object.
newDbHandler	Shared pointer to the DatabaseHandler object.
newTableHandler	Shared pointer to the TableHandler object.

Definition at line 26 of file objecthandler.cpp.

8.1.2.5 SettingsWindow()

```
AposFrontend::SettingsWindow::SettingsWindow (

QWidget * parent = nullptr,

QSharedPointer< AposBackend::ObjectHandler > newObjectHandler = nullptr ) [explicit]
```

Constructor for the SettingsWindow class.

This constructor initializes the SettingsWindow object with a parent widget and an ObjectHandler object.

Parameters

parent	Pointer to the parent widget.
newObjectHandler	Shared pointer to the ObjectHandler object.

Definition at line 27 of file settingswindow.cpp.

Here is the call graph for this function:



8.1.2.6 StartupHandler()

Constructor for the StartupHandler class.

This constructor initializes the StartupHandler object with a QApplication object.

Parameters

application	Shared pointer to the QApplication object.
арричания	chared pointer to the Graphication object.

Definition at line 26 of file startuphandler.cpp.

8.1.2.7 TableHandler() [1/2]

Constructor for the TableHandler class.

This constructor initializes the TableHandler object with a DatabaseHandler object.

Parameters

```
newDbHandler | Shared pointer to the DatabaseHandler object.
```

Definition at line 29 of file tablehandler.cpp.

8.1.2.8 TableHandler() [2/2]

Constructor for the TableHandler class.

This constructor initializes the TableHandler object with a DatabaseHandler object and a table name.

Parameters

newDbHandler	Shared pointer to the DatabaseHandler object.
tableName	The name of the table.

Definition at line 33 of file tablehandler.cpp.

8.1.2.9 TranslatableWindow()

```
{\tt AposFrontend::} {\tt TranslatableWindow::} {\tt TranslatableWindow ( ) [default]}
```

Constructor for the TranslatableWindow class.

This constructor initializes the TranslatableWindow object.

8.1.2.10 WindowHandler()

```
AposFrontend::WindowHandler::WindowHandler (

QSharedPointer< AposBackend::ObjectHandler > newObjectHandler ) [explicit]
```

Constructor for the WindowHandler class.

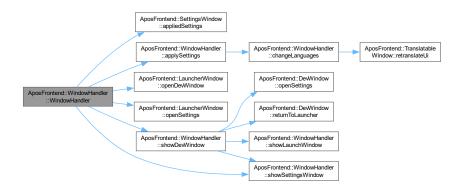
This constructor initializes the WindowHandler object with an ObjectHandler object.

Parameters

newObjectHandler	Shared pointer to the ObjectHandler object.

Definition at line 28 of file windowhandler.cpp.

Here is the call graph for this function:



8.1.2.11 \sim DevWindow()

 ${\tt AposFrontend::DevWindow::}{\sim} {\tt DevWindow~(~)~[override]}$

8.2 Database Functions 21

Destructor for the DevWindow class.

This destructor cleans up the DevWindow object.

Definition at line 40 of file devwindow.cpp.

8.1.2.12 ~LauncherWindow()

```
AposFrontend::LauncherWindow::~LauncherWindow ( ) [override]
```

Destructor for the LauncherWindow class.

This destructor cleans up the LauncherWindow object.

Definition at line 35 of file launcherwindow.cpp.

8.1.2.13 ~SettingsWindow()

```
{\tt AposFrontend::SettingsWindow::} {\sim} {\tt SettingsWindow~(~)} \quad [override]
```

Destructor for the SettingsWindow class.

This destructor cleans up the SettingsWindow object.

Definition at line 36 of file settingswindow.cpp.

8.1.2.14 \sim TableHandler()

```
AposDatabase::TableHandler::~TableHandler ( )
```

Destructor for the TableHandler class.

This destructor cleans up the TableHandler object.

Definition at line 44 of file tablehandler.cpp.

8.2 Database Functions

Group of database functions in the application.

Classes

· class AposBackend::ObjectHandler

The ObjectHandler class is a part of the application's backend logic.

· class AposDatabase::DatabaseHandler

Provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

· class AposDatabase::TableHandler

Provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

Functions

• void AposDatabase::DatabaseHandler::closeDatabase ()

Closes the database.

• bool AposDatabase::DatabaseHandler::executeCommand (const QString &command)

Executes a SQL command.

• void AposDatabase::TableHandler::generateTableModel ()

Generates a table model.

• void AposDatabase::TableHandler::generateTableModel (const QString &tableName)

Generates a table model with a specified table name.

• bool AposDatabase::TableHandler::insertIntoTable (const QString &tableName, const QString &value1, const QString &value2, const QString &value4, const QString &value5)

Inserts into a table.

void AposFrontend::DevWindow::initDatabase ()

Initializes the database.

void AposFrontend::DevWindow::closeDatabase (const QSharedPointer < AposDatabase::DatabaseHandler > &db)

Closes the database.

void AposFrontend::DevWindow::setModelViews ()

Sets the model views.

• void AposFrontend::DevWindow::setModelViews (const QSharedPointer< QSqlTableModel > &tableModel) Sets the model views with a table model.

8.2.1 Detailed Description

Group of database functions in the application.

This group contains all the functions that interact with the database. These functions are responsible for creating, reading, updating, and deleting data in the database.

8.2.2 Function Documentation

8.2.2.1 closeDatabase() [1/2]

```
void AposDatabase::DatabaseHandler::closeDatabase ( )
```

Closes the database.

This function closes the database of the DatabaseHandler object.

Definition at line 34 of file databasehandler.cpp.

8.2.2.2 closeDatabase() [2/2]

Closes the database.

This function closes the database of the DevWindow object.

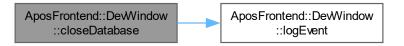
8.2 Database Functions 23

Parameters

db Shared pointer to the DatabaseHandler object.

Definition at line 133 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.2.2.3 executeCommand()

Executes a SQL command.

This function executes a specified SQL command.

Parameters

```
command The SQL command to execute.
```

Returns

Boolean value indicating whether the command was executed successfully.

Definition at line 39 of file databasehandler.cpp.

8.2.2.4 generateTableModel() [1/2]

```
\verb"void AposDatabase:: Table Handler:: generate Table Model ( )\\
```

Generates a table model.

This function generates a table model for the TableHandler object.

Definition at line 49 of file tablehandler.cpp.

8.2.2.5 generateTableModel() [2/2]

Generates a table model with a specified table name.

This function generates a table model for the TableHandler object with a specified table name.

Parameters

```
tableName The name of the table.
```

Definition at line 57 of file tablehandler.cpp.

8.2.2.6 initDatabase()

```
void AposFrontend::DevWindow::initDatabase ( ) [private]
```

Initializes the database.

This function initializes the database of the DevWindow object.

Definition at line 115 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.2 Database Functions 25

8.2.2.7 insertIntoTable()

Inserts into a table.

This function inserts into a table with specified values.

Parameters

tableName	The name of the table.
value1	The first value to insert.
value2	The second value to insert.
value3	The third value to insert.
value4	The fourth value to insert.
value5	The fifth value to insert.

Returns

Boolean value indicating whether the insertion was successful.

Definition at line 67 of file tablehandler.cpp.

8.2.2.8 setModelViews() [1/2]

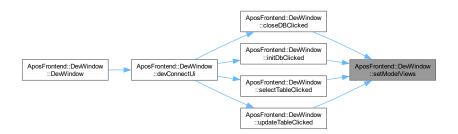
```
void AposFrontend::DevWindow::setModelViews ( ) [private]
```

Sets the model views.

This function sets the model views of the DevWindow object.

Definition at line 101 of file devwindow.cpp.

Here is the caller graph for this function:



8.2.2.9 setModelViews() [2/2]

```
void AposFrontend::DevWindow::setModelViews ( {\tt const\ QSharedPointer} < \ QSqlTableModel \ > \ \& \ tableModel \ ) \quad [private]
```

Sets the model views with a table model.

This function sets the model views of the DevWindow object with a specified table model.

Parameters

Shared pointer to the QSqlTableModel object.	tableMo
--	---------

Definition at line 93 of file devwindow.cpp.

8.3 Initialization

Group of initialization functions in the application.

Classes

class AposBackend::StartupHandler

Provides the functionality for initializing the application's translator and ObjectHandler.

Functions

bool AposBackend::ObjectHandler::initDatabaseObject ()

Initializes the database object.

- bool AposBackend::ObjectHandler::initTableObject (const QString &inputTableName)
 Initializes the table object.
- QSharedPointer< ObjectHandler > AposBackend::StartupHandler::startUp ()
- Initializes the application's translator and ObjectHandler.

 static QSharedPointer< QTranslator > AposBackend::StartupHandler::initTranslator ()

Initializes the application's translator.

• void AposBackend::StartupHandler::installTranslator ()

Installs the application's translator.

• QSharedPointer< ObjectHandler > AposBackend::StartupHandler::initObjectHandler ()

Initializes the application's ObjectHandler.

• bool AposDatabase::DatabaseHandler::initDatabase ()

Initializes the database.

void AposFrontend::SettingsWindow::installTranslator ()

Installs the application's translator.

8.3.1 Detailed Description

Group of initialization functions in the application.

This group contains all the functions that are responsible for initializing various components of the application, such as the QApplication, StartupHandler, ObjectHandler, and WindowHandler objects.

8.3 Initialization 27

8.3.2 Function Documentation

8.3.2.1 initDatabase()

```
bool AposDatabase::DatabaseHandler::initDatabase ( )
```

Initializes the database.

This function initializes the database of the DatabaseHandler object.

Returns

Boolean value indicating whether the database is initialized.

Definition at line 26 of file databasehandler.cpp.

8.3.2.2 initDatabaseObject()

```
bool AposBackend::ObjectHandler::initDatabaseObject ( )
```

Initializes the database object.

This function initializes the database object of the ObjectHandler object.

Returns

Boolean value indicating whether the database object is initialized.

Definition at line 34 of file objecthandler.cpp.

8.3.2.3 initObjectHandler()

QSharedPointer< ObjectHandler > AposBackend::StartupHandler::initObjectHandler () [private] Initializes the application's ObjectHandler.

This function initializes the application's ObjectHandler.

Returns

Shared pointer to the initialized ObjectHandler object.

Definition at line 66 of file startuphandler.cpp.

Here is the caller graph for this function:



8.3.2.4 initTableObject()

Initializes the table object.

This function initializes the table object of the ObjectHandler object with a specified table name.

Parameters

Returns

Boolean value indicating whether the table object is initialized.

Definition at line 40 of file objecthandler.cpp.

8.3.2.5 initTranslator()

QSharedPointer< QTranslator > AposBackend::StartupHandler::initTranslator () [static], [private]

Initializes the application's translator.

This function initializes the application's translator.

Returns

Shared pointer to the initialized QTranslator object.

Definition at line 51 of file startuphandler.cpp.

Here is the caller graph for this function:



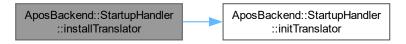
8.3.2.6 installTranslator() [1/2]

void AposBackend::StartupHandler::installTranslator () [private]

Installs the application's translator.

This function installs the application's translator.

Definition at line 44 of file startuphandler.cpp.



8.3 Initialization 29

Here is the caller graph for this function:



8.3.2.7 installTranslator() [2/2]

void AposFrontend::SettingsWindow::installTranslator () [private]

Installs the application's translator.

This function installs the application's translator.

Definition at line 85 of file settingswindow.cpp.

Here is the caller graph for this function:



8.3.2.8 startUp()

QSharedPointer< ObjectHandler > AposBackend::StartupHandler::startUp ()

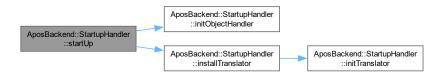
Initializes the application's translator and ObjectHandler.

This function initializes the application's translator and ObjectHandler.

Returns

Shared pointer to the initialized ObjectHandler object.

Definition at line 33 of file startuphandler.cpp.



8.4 Log Functions

Group of log functions in the application.

Functions

void AposFrontend::DevWindow::logEvent (const QString &message, const QSqlError &error)
 Logs an event with a message and a SQL error.

void AposFrontend::DevWindow::logEvent (const QString &message)

Logs an event with a message.

8.4.1 Detailed Description

Group of log functions in the application.

This group contains all the functions that are responsible for logging information. These functions are used to log information for debugging and tracking purposes.

8.4.2 Function Documentation

8.4.2.1 logEvent() [1/2]

Logs an event with a message.

This function logs an event with a specified message.

Parameters

message	The message of the event.

Definition at line 75 of file devwindow.cpp.

8.4.2.2 logEvent() [2/2]

Logs an event with a message and a SQL error.

This function logs an event with a specified message and a SQL error.

8.5 Signal Functions 31

Parameters

message	The message of the event.
error	The SQL error of the event.

Definition at line 68 of file devwindow.cpp.

8.5 Signal Functions

Group of signal functions in the application.

Signals

• void AposFrontend::DevWindow::returnToLauncher ()

Signal for returning to the launcher.

• void AposFrontend::DevWindow::openSettings ()

Signal for opening the settings.

void AposFrontend::LauncherWindow::openDevWindow()

Signal for opening the developer window.

void AposFrontend::LauncherWindow::openSettings ()

Signal for opening the settings.

• void AposFrontend::SettingsWindow::appliedSettings ()

Signal for applying settings.

8.5.1 Detailed Description

Group of signal functions in the application.

This group contains all the signal functions in the application. These functions are used to emit signals that can be handled by slot functions.

8.5.2 Signals

8.5.2.1 appliedSettings

void AposFrontend::SettingsWindow::appliedSettings () [signal]

Signal for applying settings.

This signal is emitted when the user applies the settings. Here is the caller graph for this function:



8.5.2.2 openDevWindow

void AposFrontend::LauncherWindow::openDevWindow () [signal]

Signal for opening the developer window.

This signal is emitted when the user wants to open the developer window. Here is the caller graph for this function:



8.5.2.3 openSettings [1/2]

```
void AposFrontend::DevWindow::openSettings ( ) [signal]
```

Signal for opening the settings.

This signal is emitted when the user wants to open the settings. Here is the caller graph for this function:



8.5.2.4 openSettings [2/2]

```
void AposFrontend::LauncherWindow::openSettings ( ) [signal]
```

Signal for opening the settings.

This signal is emitted when the user wants to open the settings. Here is the caller graph for this function:



8.6 Slot Functions 33

8.5.2.5 returnToLauncher

void AposFrontend::DevWindow::returnToLauncher () [signal]

Signal for returning to the launcher.

This signal is emitted when the user wants to return to the launcher. Here is the caller graph for this function:



8.6 Slot Functions

Group of slot functions in the application.

Private Slots

• void AposFrontend::DevWindow::initDbClicked ()

Slot for the 'InitDB' button click event.

void AposFrontend::DevWindow::closeDBClicked ()

Slot for the 'CloseDB' button click event.

void AposFrontend::DevWindow::executeClicked ()

Slot for the 'Execute' button click event.

void AposFrontend::DevWindow::selectTableClicked ()

Slot for the 'SelectTable' button click event.

void AposFrontend::DevWindow::addValuesClicked ()

Slot for the 'Add' button click event.

void AposFrontend::DevWindow::updateTableClicked ()

Slot for the 'Update' button click event.

void AposFrontend::DevWindow::clearCommandAfterExecuteStateChanged (int arg1)

Slot for the 'clearCommandAfterExecute' state change event.

• void AposFrontend::DevWindow::clearInputsAfterInsertStateChanged (int arg1)

Slot for the 'clearInputsAfterInsert' state change event.

void AposFrontend::DevWindow::returnToLauncherClicked ()

Slot for the 'ReturnToLauncher' button click event.

void AposFrontend::DevWindow::settingsClicked ()

Slot for the 'Settings' button click event.

void AposFrontend::LauncherWindow::showDevClicked ()

Slot for the 'ShowDev' button click event.

· void AposFrontend::LauncherWindow::pushButtonClicked ()

Slot for the 'PushButton' button click event.

• void AposFrontend::SettingsWindow::closeClicked ()

Slot for the 'Close' button click event.

void AposFrontend::SettingsWindow::applyClicked ()

Slot for the 'Apply' button click event.

void AposFrontend::SettingsWindow::languageCurrentIndexChanged (int index)

Slot for the 'Language' combo box index change event.

8.6.1 Detailed Description

Group of slot functions in the application.

This group contains all the slot functions in the application. These functions are used to handle signals emitted by other objects.

8.6.2 Private Slots

8.6.2.1 addValuesClicked

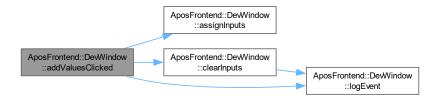
```
void AposFrontend::DevWindow::addValuesClicked ( ) [private], [slot]
```

Slot for the 'Add' button click event.

This slot is triggered when the 'Add' button is clicked.

Definition at line 218 of file devwindow.cpp.

Here is the call graph for this function:





8.6 Slot Functions 35

8.6.2.2 applyClicked

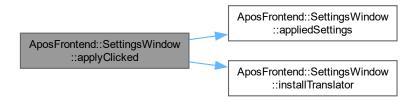
```
void AposFrontend::SettingsWindow::applyClicked ( ) [private], [slot]
```

Slot for the 'Apply' button click event.

This slot is triggered when the 'Apply' button is clicked.

Definition at line 57 of file settingswindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.2.3 clearCommandAfterExecuteStateChanged

Slot for the 'clearCommandAfterExecute' state change event.

This slot is triggered when the state of the 'clearCommandAfterExecute' checkbox is changed.

Parameters

arg1	The new state of the checkbox.

Definition at line 240 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.2.4 clearInputsAfterInsertStateChanged

Slot for the 'clearInputsAfterInsert' state change event.

This slot is triggered when the state of the 'clearInputsAfterInsert' checkbox is changed.

Parameters

arg1 The new state of the checkbox.

Definition at line 246 of file devwindow.cpp.



8.6 Slot Functions 37

Here is the caller graph for this function:



8.6.2.5 closeClicked

```
void AposFrontend::SettingsWindow::closeClicked ( ) [private], [slot]
```

Slot for the 'Close' button click event.

This slot is triggered when the 'Close' button is clicked.

Definition at line 52 of file settingswindow.cpp.

Here is the caller graph for this function:



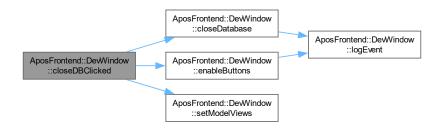
8.6.2.6 closeDBClicked

```
void AposFrontend::DevWindow::closeDBClicked ( ) [private], [slot]
```

Slot for the 'CloseDB' button click event.

This slot is triggered when the 'CloseDB' button is clicked.

Definition at line 193 of file devwindow.cpp.



Here is the caller graph for this function:



8.6.2.7 executeClicked

```
void AposFrontend::DevWindow::executeClicked ( ) [private], [slot]
```

Slot for the 'Execute' button click event.

This slot is triggered when the 'Execute' button is clicked.

Definition at line 199 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.2.8 initDbClicked

```
void AposFrontend::DevWindow::initDbClicked ( ) [private], [slot]
```

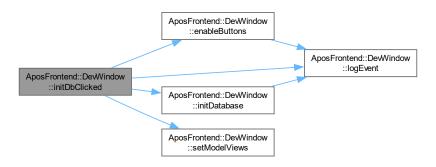
Slot for the 'InitDB' button click event.

This slot is triggered when the 'InitDB' button is clicked.

Definition at line 176 of file devwindow.cpp.

8.6 Slot Functions 39

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.2.9 languageCurrentIndexChanged

Slot for the 'Language' combo box index change event.

This slot is triggered when the index of the 'Language' combo box is changed.

Parameters

index	The new index of the combo box.

Definition at line 73 of file settingswindow.cpp.



8.6.2.10 pushButtonClicked

void AposFrontend::LauncherWindow::pushButtonClicked () [private], [slot]

Slot for the 'PushButton' button click event.

This slot is triggered when the 'PushButton' button is clicked.

Definition at line 51 of file launcherwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



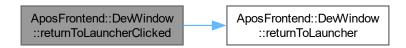
8.6.2.11 returnToLauncherClicked

void AposFrontend::DevWindow::returnToLauncherClicked () [private], [slot]

Slot for the 'ReturnToLauncher' button click event.

This slot is triggered when the 'ReturnToLauncher' button is clicked.

Definition at line 252 of file devwindow.cpp.



8.6 Slot Functions 41

Here is the caller graph for this function:



8.6.2.12 selectTableClicked

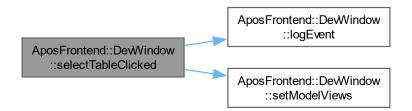
void AposFrontend::DevWindow::selectTableClicked () [private], [slot]

Slot for the 'SelectTable' button click event.

This slot is triggered when the 'SelectTable' button is clicked.

Definition at line 211 of file devwindow.cpp.

Here is the call graph for this function:





8.6.2.13 settingsClicked

void AposFrontend::DevWindow::settingsClicked () [private], [slot]

Slot for the 'Settings' button click event.

This slot is triggered when the 'Settings' button is clicked.

Definition at line 256 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.6.2.14 showDevClicked

void AposFrontend::LauncherWindow::showDevClicked () [private], [slot]

Slot for the 'ShowDev' button click event.

This slot is triggered when the 'ShowDev' button is clicked.

Definition at line 47 of file launcherwindow.cpp.



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Here is the caller graph for this function:



8.6.2.15 updateTableClicked

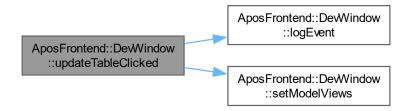
void AposFrontend::DevWindow::updateTableClicked () [private], [slot]

Slot for the 'Update' button click event.

This slot is triggered when the 'Update' button is clicked.

Definition at line 233 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.7 UI Functions

Group of UI functions in the application.

Classes

· class AposFrontend::LauncherWindow

Provides the user interface for the launcher window.

· class AposFrontend::SettingsWindow

Provides the user interface for the settings window.

· class AposFrontend::TranslatableWindow

An abstract base class that provides a function for retranslating the user interface.

· class AposFrontend::WindowHandler

Provides the functionality for managing the application's windows.

Functions

· void AposFrontend::DevWindow::retranslateUi () override

Retranslates the user interface.

void AposFrontend::DevWindow::enableButtons (bool databaseLoaded)

Enables or disables the buttons.

void AposFrontend::DevWindow::assignInputs ()

Assigns the inputs.

void AposFrontend::DevWindow::clearInputs (bool clearBool)

Clears the inputs.

bool AposFrontend::DevWindow::checkCheckbox (int argCb)

Checks a checkbox.

void AposFrontend::DevWindow::clearCommandBox (bool clearBool)

Clears the command box.

• void AposFrontend::LauncherWindow::retranslateUi () override

Retranslates the user interface.

void AposFrontend::SettingsWindow::retranslateUi () override

Retranslates the user interface.

virtual void AposFrontend::TranslatableWindow::retranslateUi ()=0

Retranslates the user interface.

void AposFrontend::WindowHandler::showLaunchWindow ()

Shows the launcher window.

• void AposFrontend::WindowHandler::changeLanguages ()

Changes languages.

Private Slots

void AposFrontend::WindowHandler::showDevWindow ()

Shows the developer window.

void AposFrontend::WindowHandler::showSettingsWindow ()

Shows the settings window.

void AposFrontend::WindowHandler::applySettings ()

Applies settings.

8.7.1 Detailed Description

Group of UI functions in the application.

This group contains all the functions that are responsible for handling the user interface of the application.

8.7 UI Functions 45

8.7.2 Function Documentation

8.7.2.1 assignInputs()

void AposFrontend::DevWindow::assignInputs () [private]

Assigns the inputs.

This function assigns the inputs of the DevWindow object.

Definition at line 107 of file devwindow.cpp.

Here is the caller graph for this function:



8.7.2.2 changeLanguages()

void AposFrontend::WindowHandler::changeLanguages () [private]

Changes languages.

This function changes the language of the application's user interface.

Definition at line 72 of file windowhandler.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.7.2.3 checkCheckbox()

Checks a checkbox.

This function checks a checkbox of the DevWindow object based on a specified integer value.

Parameters

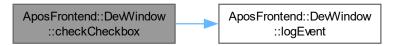
argCb Integer value indicating the state of the checkbox.

Returns

Boolean value indicating whether the checkbox is checked.

Definition at line 142 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.7.2.4 clearCommandBox()

Clears the command box.

This function clears the command box of the DevWindow object based on a specified boolean value.

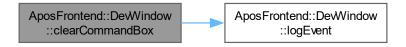
Parameters

clearBool	Boolean value indicating whether to clear the command box.
-----------	--

Definition at line 168 of file devwindow.cpp.

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Here is the call graph for this function:



Here is the caller graph for this function:



8.7.2.5 clearInputs()

Clears the inputs.

This function clears the inputs of the DevWindow object based on a specified boolean value.

Parameters

clearBool	Boolean value indicating whether to clear the inputs.

Definition at line 156 of file devwindow.cpp.



Here is the caller graph for this function:



8.7.2.6 enableButtons()

Enables or disables the buttons.

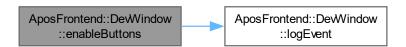
This function enables or disables the buttons of the DevWindow object based on whether the database is loaded.

Parameters

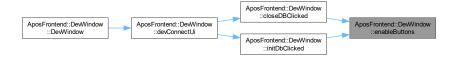
	databaseLoaded	Boolean value indicating whether the database is loaded.
--	----------------	--

Definition at line 82 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.7.2.7 retranslateUi() [1/4]

void AposFrontend::DevWindow::retranslateUi () [override], [virtual]

8.7 UI Functions 49

Retranslates the user interface.

This function retranslates the user interface of the DevWindow object.

Implements AposFrontend::TranslatableWindow.

Definition at line 260 of file devwindow.cpp.

8.7.2.8 retranslateUi() [2/4]

```
void AposFrontend::LauncherWindow::retranslateUi () [override], [virtual]
```

Retranslates the user interface.

This function retranslates the user interface of the LauncherWindow object.

Implements AposFrontend::TranslatableWindow.

Definition at line 55 of file launcherwindow.cpp.

8.7.2.9 retranslateUi() [3/4]

```
void AposFrontend::SettingsWindow::retranslateUi ( ) [override], [virtual]
```

Retranslates the user interface.

This function retranslates the user interface of the SettingsWindow object.

Implements AposFrontend::TranslatableWindow.

Definition at line 48 of file settingswindow.cpp.

8.7.2.10 retranslateUi() [4/4]

```
virtual void AposFrontend::TranslatableWindow::retranslateUi ( ) [pure virtual]
```

Retranslates the user interface.

This is a pure virtual function that needs to be implemented by derived classes. It is used to retranslate the user interface of the window.

Implemented in AposFrontend::DevWindow, AposFrontend::LauncherWindow, and AposFrontend::SettingsWindow.



8.7.2.11 showLaunchWindow()

void AposFrontend::WindowHandler::showLaunchWindow ()

Shows the launcher window.

This function shows the launcher window of the application.

Definition at line 40 of file windowhandler.cpp.

Here is the caller graph for this function:



8.7.3 Private Slots

8.7.3.1 applySettings

void AposFrontend::WindowHandler::applySettings () [private], [slot]

Applies settings.

This slot is triggered when the user applies the settings.

Definition at line 68 of file windowhandler.cpp.

Here is the call graph for this function:





8.7 UI Functions 51

8.7.3.2 showDevWindow

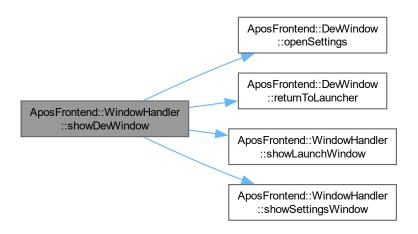
void AposFrontend::WindowHandler::showDevWindow () [private], [slot]

Shows the developer window.

This slot is triggered when the user wants to open the developer window.

Definition at line 49 of file windowhandler.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



8.7.3.3 showSettingsWindow

void AposFrontend::WindowHandler::showSettingsWindow () [private], [slot]

Shows the settings window.

This slot is triggered when the user wants to open the settings window.

Definition at line 64 of file windowhandler.cpp.

Here is the caller graph for this function:



8.8 Utility Functions

Group of utility functions in the application.

Group of utility functions in the application.

This group contains all the utility functions in the application. These functions provide various utility services such as string manipulation, data conversion, etc.

8.9 Variables

Group of variables in the application.

Variables

- QSharedPointer< QApplication > AposBackend::ObjectHandler::ptrApplication Shared pointer to the QApplication object.
- QSharedPointer < AposDatabase::DatabaseHandler > AposBackend::ObjectHandler::ptrDbHandler
 Shared pointer to the DatabaseHandler object.
- QSharedPointer< AposDatabase::TableHandler > AposBackend::ObjectHandler::ptrTableHandler
 Shared pointer to the TableHandler object.
- QSharedPointer < QApplication > AposBackend::StartupHandler::ptrApplication
 Shared pointer to the QApplication object.
- $\bullet \ \ QShared Pointer < Object Handler > A pos Backend :: Start up Handler :: ptr Object Handler = Control of the Proposition of the Proposition$

Shared pointer to the ObjectHandler object.

QSqlError AposDatabase::DatabaseHandler::lastSqlError

The SQL error of the DatabaseHandler object.

• QSqlDatabase AposDatabase::DatabaseHandler::activeDatabase

The active database of the DatabaseHandler object.

- QSharedPointer < QSqlDatabase > AposDatabase::DatabaseHandler::ptrActiveDatabase
 Shared pointer to the active database.
- QString AposDatabase::DatabaseHandler::databasePath = R"(C:\Users\Clean\Documents\Projekte\Apos-DatabaseManager\Project\resources\defaultDatabase\userDatabase.db)"

The path to the database.

QString AposDatabase::TableHandler::activeTableName = "userTable"

The active table name of the TableHandler object.

 $\bullet \ \ QShared Pointer < Database Handler > Apos Database :: Table Handler :: ptr Db Handler = Part Pointer =$

Shared pointer to the DatabaseHandler object.

8.9 Variables 53

QSharedPointer< QSqlTableModel > AposDatabase::TableHandler::ptrTableModel

Shared pointer to the QSqlTableModel object.

QSqlError AposDatabase::TableHandler::lastTableError

The last table error of the TableHandler object.

Ui::DevWindow * AposFrontend::DevWindow::ui

Pointer to the user interface of the DevWindow object.

QSharedPointer< AposBackend::ObjectHandler > AposFrontend::DevWindow::ptrObjectHandler = nullptr

Shared pointer to the ObjectHandler object.

QString AposFrontend::DevWindow::input1

String values for the inputs.

bool AposFrontend::DevWindow::clearCommand = false

Boolean values for clearing the command and the inputs.

• Ui::LauncherWindow * AposFrontend::LauncherWindow::ui

Pointer to the user interface of the LauncherWindow object.

 QSharedPointer < AposBackend::ObjectHandler > AposFrontend::LauncherWindow::objectHandler = nullptr Shared pointer to the ObjectHandler object.

• Ui::SettingsWindow * AposFrontend::SettingsWindow::ui

Pointer to the user interface of the SettingsWindow object.

QSharedPointer < AposBackend::ObjectHandler > AposFrontend::SettingsWindow::ptrObjectHandler
 Shared pointer to the ObjectHandler object.

QSharedPointer< QTranslator > AposFrontend::SettingsWindow::ptrTranslator

Shared pointer to the QTranslator object.

int AposFrontend::SettingsWindow::languageIndex {}

The index of the selected language.

int AposFrontend::SettingsWindow::tempLanguageIndex {}

The temporary index of the selected language.

bool AposFrontend::SettingsWindow::languageChanged {}

Indicates whether the language has changed.

QSharedPointer< LauncherWindow > AposFrontend::WindowHandler::ptrLauncherWindow

Shared pointer to the LauncherWindow object.

• QSharedPointer< DevWindow > AposFrontend::WindowHandler::ptrDevWindow

Shared pointer to the DevWindow object.

 $\bullet \ \ QShared Pointer < Settings Window > Apos Front end:: Window Handler:: ptr Settings Window \\$

Shared pointer to the SettingsWindow object.

QSharedPointer< AposBackend::ObjectHandler > AposFrontend::WindowHandler::ptrObjectHandler

Shared pointer to the ObjectHandler object.

8.9.1 Detailed Description

Group of variables in the application.

This group contains all the variables used in the application. These variables are used to store data and pass it between functions.

8.9.2 Variable Documentation

8.9.2.1 activeDatabase

QSqlDatabase AposDatabase::DatabaseHandler::activeDatabase [private]

The active database of the DatabaseHandler object.

This variable is used to store the active database of the DatabaseHandler object.

Definition at line 101 of file databasehandler.hpp.

8.9.2.2 activeTableName

```
QString AposDatabase::TableHandler::activeTableName = "userTable" [private]
```

The active table name of the TableHandler object.

This variable is used to store the active table name of the TableHandler object.

Definition at line 141 of file tablehandler.hpp.

8.9.2.3 clearCommand

```
bool AposFrontend::DevWindow::clearCommand = false [private]
```

Boolean values for clearing the command and the inputs.

These boolean values are used to determine whether to clear the command, and the inputs of the DevWindow object.

Definition at line 362 of file devwindow.hpp.

8.9.2.4 databasePath

```
QString AposDatabase::DatabaseHandler::databasePath = R"(C:\Users\Clean\Documents\Projekte\)
Apos-DatabaseManager\Project\resources\defaultDatabase\userDatabase.db)" [private]
```

The path to the database.

This variable is used to store the path to the database.

Definition at line 115 of file databasehandler.hpp.

8.9.2.5 input1

```
QString AposFrontend::DevWindow::input1 [private]
```

String values for the inputs.

These string values are used to store the inputs of the DevWindow object.

Definition at line 353 of file devwindow.hpp.

8.9.2.6 languageChanged

```
bool AposFrontend::SettingsWindow::languageChanged {} [private]
```

Indicates whether the language has changed.

This variable is used to indicate whether the language has changed.

Definition at line 158 of file settingswindow.hpp.

8.9 Variables 55

8.9.2.7 languageIndex

```
int AposFrontend::SettingsWindow::languageIndex {} [private]
```

The index of the selected language.

This variable is used to store the index of the selected language.

Definition at line 144 of file settingswindow.hpp.

8.9.2.8 lastSqlError

```
QSqlError AposDatabase::DatabaseHandler::lastSqlError [private]
```

The SQL error of the DatabaseHandler object.

This variable is used to store the SQL error of the DatabaseHandler object.

Definition at line 94 of file databasehandler.hpp.

8.9.2.9 lastTableError

```
QSqlError AposDatabase::TableHandler::lastTableError [private]
```

The last table error of the TableHandler object.

This variable is used to store the last table error of the TableHandler object.

Definition at line 162 of file tablehandler.hpp.

8.9.2.10 objectHandler

```
QSharedPointer<AposBackend::ObjectHandler> AposFrontend::LauncherWindow::objectHandler = nullptr [private]
```

Shared pointer to the ObjectHandler object.

This shared pointer is used to access the ObjectHandler object.

Definition at line 117 of file launcherwindow.hpp.

8.9.2.11 ptrActiveDatabase

```
QSharedPointer<QSqlDatabase> AposDatabase::DatabaseHandler::ptrActiveDatabase [private]
```

Shared pointer to the active database.

This shared pointer is used to access the active database of the DatabaseHandler object.

Definition at line 108 of file databasehandler.hpp.

8.9.2.12 ptrApplication [1/2]

QSharedPointer<QApplication> AposBackend::ObjectHandler::ptrApplication [private]

Shared pointer to the QApplication object.

This shared pointer is used to access the QApplication object.

Definition at line 140 of file objecthandler.hpp.

8.9.2.13 ptrApplication [2/2]

 ${\tt QSharedPointer} < {\tt QApplication} > {\tt AposBackend::StartupHandler::ptrApplication} \quad [private]$

Shared pointer to the QApplication object.

This shared pointer is used to access the QApplication object.

Definition at line 95 of file startuphandler.hpp.

8.9.2.14 ptrDbHandler [1/2]

QSharedPointer<AposDatabase::DatabaseHandler> AposBackend::ObjectHandler::ptrDbHandler [private]

Shared pointer to the DatabaseHandler object.

This shared pointer is used to access the DatabaseHandler object.

Definition at line 147 of file objecthandler.hpp.

8.9.2.15 ptrDbHandler [2/2]

QSharedPointer<DatabaseHandler> AposDatabase::TableHandler::ptrDbHandler [private]

Shared pointer to the DatabaseHandler object.

This shared pointer is used to access the DatabaseHandler object.

Definition at line 148 of file tablehandler.hpp.

8.9.2.16 ptrDevWindow

QSharedPointer<DevWindow> AposFrontend::WindowHandler::ptrDevWindow [private]

Shared pointer to the DevWindow object.

This shared pointer is used to access the DevWindow object.

Definition at line 105 of file windowhandler.hpp.

8.9 Variables 57

8.9.2.17 ptrLauncherWindow

QSharedPointer<LauncherWindow> AposFrontend::WindowHandler::ptrLauncherWindow [private]

Shared pointer to the LauncherWindow object.

This shared pointer is used to access the LauncherWindow object.

Definition at line 98 of file windowhandler.hpp.

8.9.2.18 ptrObjectHandler [1/4]

QSharedPointer<ObjectHandler> AposBackend::StartupHandler::ptrObjectHandler [private]

Shared pointer to the ObjectHandler object.

This shared pointer is used to access the ObjectHandler object.

Definition at line 102 of file startuphandler.hpp.

8.9.2.19 ptrObjectHandler [2/4]

QSharedPointer<AposBackend::ObjectHandler> AposFrontend::DevWindow::ptrObjectHandler = nullptr [private]

Shared pointer to the ObjectHandler object.

This shared pointer is used to access the ObjectHandler object.

Definition at line 344 of file devwindow.hpp.

8.9.2.20 ptrObjectHandler [3/4]

QSharedPointer<AposBackend::ObjectHandler> AposFrontend::SettingsWindow::ptrObjectHandler [private]

Shared pointer to the ObjectHandler object.

This shared pointer is used to access the ObjectHandler object.

Definition at line 130 of file settingswindow.hpp.

8.9.2.21 ptrObjectHandler [4/4]

QSharedPointer<AposBackend::ObjectHandler> AposFrontend::WindowHandler::ptrObjectHandler [private]

Shared pointer to the ObjectHandler object.

This shared pointer is used to access the ObjectHandler object.

Definition at line 119 of file windowhandler.hpp.

8.9.2.22 ptrSettingsWindow

QSharedPointer<SettingsWindow> AposFrontend::WindowHandler::ptrSettingsWindow [private]

Shared pointer to the SettingsWindow object.

This shared pointer is used to access the SettingsWindow object.

Definition at line 112 of file windowhandler.hpp.

8.9.2.23 ptrTableHandler

QSharedPointer<AposDatabase::TableHandler> AposBackend::ObjectHandler::ptrTableHandler [private]

Shared pointer to the TableHandler object.

This shared pointer is used to access the TableHandler object.

Definition at line 154 of file objecthandler.hpp.

8.9.2.24 ptrTableModel

QSharedPointer<QSqlTableModel> AposDatabase::TableHandler::ptrTableModel [private]

Shared pointer to the QSqlTableModel object.

This shared pointer is used to access the QSqlTableModel object.

Definition at line 155 of file tablehandler.hpp.

8.9.2.25 ptrTranslator

 $\verb|QSharedPointer<|QTranslator>| AposFrontend::SettingsWindow::ptrTranslator | [private]|$

Shared pointer to the QTranslator object.

This shared pointer is used to access the QTranslator object.

Definition at line 137 of file settingswindow.hpp.

8.9.2.26 tempLanguageIndex

int AposFrontend::SettingsWindow::tempLanguageIndex {} [private]

The temporary index of the selected language.

This variable is used to store the temporary index of the selected language.

Definition at line 151 of file settingswindow.hpp.

8.9 Variables 59

8.9.2.27 ui [1/3]

```
Ui::DevWindow* AposFrontend::DevWindow::ui [private]
```

Pointer to the user interface of the DevWindow object.

This pointer is used to access the user interface of the DevWindow object.

Definition at line 335 of file devwindow.hpp.

8.9.2.28 ui [2/3]

```
Ui::LauncherWindow* AposFrontend::LauncherWindow::ui [private]
```

Pointer to the user interface of the LauncherWindow object.

This pointer is used to access the user interface of the LauncherWindow object.

Definition at line 110 of file launcherwindow.hpp.

8.9.2.29 ui [3/3]

```
Ui::SettingsWindow* AposFrontend::SettingsWindow::ui [private]
```

Pointer to the user interface of the SettingsWindow object.

This pointer is used to access the user interface of the SettingsWindow object.

Definition at line 123 of file settingswindow.hpp.

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Chapter 9

Namespace Documentation

9.1 AposBackend Namespace Reference

Classes

· class ObjectHandler

The ObjectHandler class is a part of the application's backend logic.

· class StartupHandler

Provides the functionality for initializing the application's translator and ObjectHandler.

9.2 AposDatabase Namespace Reference

Classes

· class DatabaseHandler

Provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

class TableHandler

Provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

9.3 AposFrontend Namespace Reference

Classes

· class DevWindow

Provides the user interface for the developer window.

· class LauncherWindow

Provides the user interface for the launcher window.

class SettingsWindow

Provides the user interface for the settings window.

· class TranslatableWindow

An abstract base class that provides a function for retranslating the user interface.

· class WindowHandler

Provides the functionality for managing the application's windows.

9.4 Applnitialization Namespace Reference

Functions

QSharedPointer< AposBackend::StartupHandler > initializeStartupHandler (const QSharedPointer< QApplication > &newApp)

Initialize the StartupHandler object.

QSharedPointer< AposBackend::ObjectHandler > initializeObjectHandler (const QSharedPointer
 AposBackend::StartupHandler > &startupHandler)

Initialize the ObjectHandler object.

QSharedPointer< AposFrontend::WindowHandler > initializeWindowHandler (const QSharedPointer
 AposBackend::ObjectHandler > &objectHandler)

Initialize the WindowHandler object.

9.4.1 Detailed Description

< Include the StartupHandler class < Include the WindowHandler class < Include the QApplication class < Include the QDebug class for debugging < Include the QScopedPointer class for memory management

9.4.2 Function Documentation

9.4.2.1 initializeObjectHandler()

Initialize the ObjectHandler object.

This function initializes the StartupHandler object with the QApplication object, then uses the StartupHandler object to initialize and return the ObjectHandler object.

Parameters

startupHan	dler	Pointer to the StartupHandler object.	This is used to initialize the ObjectHandler object.
------------	------	---------------------------------------	--

Returns

Unique pointer to the initialized ObjectHandler object

Exceptions

std::runtime_error	if the QApplication pointer is null or if the ObjectHandler fails to initialize.

Definition at line 131 of file main.cpp.

Here is the caller graph for this function:



9.4.2.2 initializeStartupHandler()

```
\label{lem:QSharedPointer} $$ QSharedPointer< AppSBackend::StartupHandler > AppInitialization::initializeStartupHandler ( const QSharedPointer< QApplication > & newApp )
```

Initialize the StartupHandler object.

This function initializes the StartupHandler object with the QApplication object.

Parameters

the QApplication object. This is used to initialize the StartupHandler object	newApp Shared pointer to the QApplication object.
---	---

Returns

Shared pointer to the initialized StartupHandler object

Exceptions

std::runtime_error	if the QApplication pointer is null.

Definition at line 120 of file main.cpp.

Here is the caller graph for this function:



9.4.2.3 initializeWindowHandler()

 $\label{lem:QSharedPointer} $$ QSharedPointer< AposFrontend::WindowHandler > AppInitialization::initializeWindowHandler (const QSharedPointer< AposBackend::ObjectHandler > & objectHandler)$

Initialize the WindowHandler object.

This function initializes the WindowHandler object with the ObjectHandler object and shows the launch window.

Parameters

objectHandler	Unique pointer to the ObjectHandler object. This is used to initialize the WindowHandler object.
objecti idilalei	This is about to the object lander object. This is about to initialize the window lander object.

Returns

Unique pointer to the initialized WindowHandler object

Exceptions

std::runtime_error if the ObjectHandler pointer is null, or if the WindowHandler object fails to initialize.
--

Definition at line 143 of file main.cpp.

Here is the caller graph for this function:



9.5 Ui Namespace Reference

Chapter 10

Class Documentation

10.1 AposBackend::ObjectHandler Class Reference

The ObjectHandler class is a part of the application's backend logic.

```
#include <objecthandler.hpp>
```

Public Member Functions

ObjectHandler (QSharedPointer < QApplication > newApplication, QSharedPointer < AposDatabase::DatabaseHandler > newDbHandler, QSharedPointer < AposDatabase::TableHandler > newTableHandler)

Constructor for the ObjectHandler class.

• bool initDatabaseObject ()

Initializes the database object.

• bool initTableObject (const QString &inputTableName)

Initializes the table object.

void setActiveTableName (const QString &newActiveTableName)

Sets the active table name.

 $\bullet \ \ QSharedPointer < QSqlDatabase > \underline{getActiveDatabase} \ () \ const$

Gets the active database.

• QSharedPointer< AposDatabase::TableHandler > getPtrTableHandler () const

Gets the table handler.

• QSharedPointer< AposDatabase::DatabaseHandler > getPtrDbHandler () const

Gets the database handler.

const QString & getActiveTableName () const

Gets the active table name.

• const QSqlError & getTableSqlError () const

Gets the table SQL error.

const QSharedPointer< QApplication > & getPtrApplication () const

Gets the QApplication object.

Private Attributes

• QSharedPointer< QApplication > ptrApplication

Shared pointer to the QApplication object.

• QSharedPointer< AposDatabase::DatabaseHandler > ptrDbHandler

Shared pointer to the DatabaseHandler object.

• QSharedPointer< AposDatabase::TableHandler > ptrTableHandler

Shared pointer to the TableHandler object.

10.1.1 Detailed Description

The ObjectHandler class is a part of the application's backend logic.

Provides the functionality for initializing the database and table objects, setting the active table name, and getting the active database, table handler, database handler, active table name, and table SQL error.

See also

AposDatabase::DatabaseHandler AposDatabase::TableHandler

QApplication QSharedPointer

QDebug

QtSql

Definition at line 48 of file objecthandler.hpp.

10.1.2 Member Function Documentation

10.1.2.1 getActiveDatabase()

 ${\tt QSharedPointer<\ QSqlDatabase\ >\ AposBackend::ObjectHandler::getActiveDatabase\ (\)\ constraints}$

Gets the active database.

This function gets the active database of the ObjectHandler object.

Returns

Shared pointer to the active QSqlDatabase object.

Definition at line 70 of file objecthandler.cpp.

10.1.2.2 getActiveTableName()

const QString & AposBackend::ObjectHandler::getActiveTableName () const

Gets the active table name.

This function gets the active table name of the ObjectHandler object.

Returns

The active table name.

Definition at line 62 of file objecthandler.cpp.

10.1.2.3 getPtrApplication()

```
const QSharedPointer< QApplication > & AposBackend::ObjectHandler::getPtrApplication ( ) const
```

Gets the QApplication object.

This function gets the QApplication object of the ObjectHandler object.

Returns

Shared pointer to the QApplication object.

Definition at line 78 of file objecthandler.cpp.

10.1.2.4 getPtrDbHandler()

```
QSharedPointer< AposDatabase::DatabaseHandler > AposBackend::ObjectHandler::getPtrDbHandler () const
```

Gets the database handler.

This function gets the database handler of the ObjectHandler object.

Returns

Shared pointer to the DatabaseHandler object.

Definition at line 58 of file objecthandler.cpp.

10.1.2.5 getPtrTableHandler()

```
QSharedPointer< AposDatabase::TableHandler > AposBackend::ObjectHandler::getPtrTableHandler ( ) const
```

Gets the table handler.

This function gets the table handler of the ObjectHandler object.

Returns

Shared pointer to the TableHandler object.

Definition at line 54 of file objecthandler.cpp.

10.1.2.6 getTableSqlError()

```
const QSqlError & AposBackend::ObjectHandler::getTableSqlError ( ) const
```

Gets the table SQL error.

This function gets the table SQL error of the ObjectHandler object.

Returns

The table SQL error.

Definition at line 66 of file objecthandler.cpp.

10.1.2.7 setActiveTableName()

Sets the active table name.

This function sets the active table name of the ObjectHandler object.

Parameters

newActiveTableName :	The new active table name.
----------------------	----------------------------

Definition at line 74 of file objecthandler.cpp.

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

- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/objecthandler.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/objecthandler.cpp

10.2 AposBackend::StartupHandler Class Reference

Provides the functionality for initializing the application's translator and ObjectHandler.

```
#include <startuphandler.hpp>
```

Public Member Functions

• StartupHandler (const QSharedPointer< QApplication > &application)

Constructor for the StartupHandler class.

QSharedPointer< ObjectHandler > startUp ()

Initializes the application's translator and ObjectHandler.

Private Member Functions

· void installTranslator ()

Installs the application's translator.

• QSharedPointer< ObjectHandler > initObjectHandler ()

Initializes the application's ObjectHandler.

Static Private Member Functions

static QSharedPointer< QTranslator > initTranslator ()
 Initializes the application's translator.

Private Attributes

QSharedPointer< QApplication > ptrApplication

Shared pointer to the QApplication object.

QSharedPointer< ObjectHandler > ptrObjectHandler

Shared pointer to the ObjectHandler object.

10.2.1 Detailed Description

Provides the functionality for initializing the application's translator and ObjectHandler.

The StartupHandler class is a part of the application's backend logic. It interacts with the QApplication object and uses the ObjectHandler class to manage the application's objects.

See also

ObjectHandler

QApplication

QSharedPointer

QDebug

QtSql

QTranslator

QLocale

Definition at line 49 of file startuphandler.hpp.

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

- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/startuphandler.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/backendClasses/startuphandler.cpp

10.3 AposDatabase::DatabaseHandler Class Reference

Provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

#include <databasehandler.hpp>

Public Member Functions

• DatabaseHandler ()

Constructor for the DatabaseHandler class.

• bool initDatabase ()

Initializes the database.

• void closeDatabase ()

Closes the database.

• bool executeCommand (const QString &command)

Executes a SQL command.

QSharedPointer< QSqlDatabase > getActiveDatabase ()

Gets the active database.

• const QSqlError & getSqlError () const

Gets the SQL error.

Private Attributes

• QSqlError lastSqlError

The SQL error of the DatabaseHandler object.

QSqlDatabase activeDatabase

The active database of the DatabaseHandler object.

QSharedPointer< QSqlDatabase > ptrActiveDatabase

Shared pointer to the active database.

• QString databasePath = R"(C:\Users\Clean\Documents\Projekte\Apos-DatabaseManager\Project\resources\default ← Database\userDatabase.db)"

The path to the database.

10.3.1 Detailed Description

Provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

The DatabaseHandler class is a part of the application's backend logic.

See also

QtSql

QSqlDatabase

QSqlError

QSharedPointer

QDebug

Definition at line 40 of file databasehandler.hpp.

10.3.2 Member Function Documentation

10.3.2.1 getActiveDatabase()

```
{\tt QSqlDatabase} > {\tt AposDatabase::DatabaseHandler::getActiveDatabase} \ (\ )
```

Gets the active database.

This function gets the active database of the DatabaseHandler object.

Returns

Shared pointer to the active QSqlDatabase object.

Definition at line 52 of file databasehandler.cpp.

10.3.2.2 getSqlError()

```
const QSqlError & AposDatabase::DatabaseHandler::getSqlError ( ) const
```

Gets the SQL error.

This function gets the SQL error of the DatabaseHandler object.

Returns

The SQL error.

Definition at line 56 of file databasehandler.cpp.

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

- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/databasehandler.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/databaseHandler.cpp

10.4 AposDatabase::TableHandler Class Reference

Provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

```
#include <tablehandler.hpp>
```

Public Member Functions

• TableHandler (QSharedPointer< DatabaseHandler > newDbHandler)

Constructor for the TableHandler class.

TableHandler (QSharedPointer < DatabaseHandler > newDbHandler, const QString &tableName)

Constructor for the TableHandler class.

∼TableHandler ()

Destructor for the TableHandler class.

void generateTableModel ()

Generates a table model.

void generateTableModel (const QString &tableName)

Generates a table model with a specified table name.

 bool insertIntoTable (const QString &tableName, const QString &value1, const QString &value2, const QString &value3, const QString &value4, const QString &value5)

Inserts into a table.

void setActiveTableName (const QString &newActiveTableName)

Sets the active table name.

QSharedPointer< QSqlTableModel > getTableModel ()

Gets the table model.

const QString & getActiveTableName () const

Gets the active table name.

const QSqlError & getLastTableError () const

Gets the last table error.

Private Attributes

QString activeTableName = "userTable"

The active table name of the TableHandler object.

QSharedPointer< DatabaseHandler > ptrDbHandler

Shared pointer to the DatabaseHandler object.

QSharedPointer< QSqlTableModel > ptrTableModel

Shared pointer to the QSqlTableModel object.

QSqlError lastTableError

The last table error of the TableHandler object.

10.4.1 Detailed Description

Provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

The TableHandler class is a part of the application's backend logic.

See also

DatabaseHandler

QSharedPointer

QDebug

QtSql

QSqlTableModel

QSqlError

QSqlQuery

QSqlDatabase

Definition at line 48 of file tablehandler.hpp.

10.4.2 Member Function Documentation

10.4.2.1 getActiveTableName()

```
const QString & AposDatabase::TableHandler::getActiveTableName ( ) const
```

Gets the active table name.

This function gets the active table name of the TableHandler object.

Returns

The active table name.

Definition at line 92 of file tablehandler.cpp.

10.4.2.2 getLastTableError()

```
const QSqlError & AposDatabase::TableHandler::getLastTableError ( ) const
```

Gets the last table error.

This function gets the last table error of the TableHandler object.

Returns

The last table error.

Definition at line 100 of file tablehandler.cpp.

10.4.2.3 getTableModel()

```
QSharedPointer< QSqlTableModel > AposDatabase::TableHandler::getTableModel ( )
```

Gets the table model.

This function gets the table model of the TableHandler object.

Returns

Shared pointer to the QSqlTableModel object.

Definition at line 104 of file tablehandler.cpp.

10.4.2.4 setActiveTableName()

Sets the active table name.

This function sets the active table name of the TableHandler object.

Parameters

newActiveTableName	The new active table name.
--------------------	----------------------------

Definition at line 96 of file tablehandler.cpp.

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

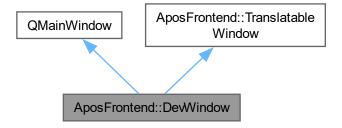
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/tablehandler.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/databaseClasses/tablehandler.cpp

10.5 AposFrontend::DevWindow Class Reference

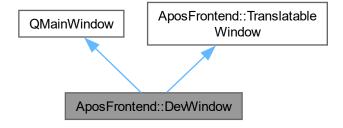
Provides the user interface for the developer window.

#include <devwindow.hpp>

Inheritance diagram for AposFrontend::DevWindow:



Collaboration diagram for AposFrontend::DevWindow:



Signals

void returnToLauncher ()

Signal for returning to the launcher.

· void openSettings ()

Signal for opening the settings.

Public Member Functions

DevWindow (QWidget *parent=nullptr, QSharedPointer< AposBackend::ObjectHandler > object
 Handler=nullptr)

Constructor for the DevWindow class.

∼DevWindow () override

Destructor for the DevWindow class.

void logEvent (const QString &type, const QString &message)

Logs an event with a type and a message.

void logEvent (const QString &message, const QSqlError &error)

Logs an event with a message and a SQL error.

void logEvent (const QString &message)

Logs an event with a message.

void retranslateUi () override

Retranslates the user interface.

Public Member Functions inherited from AposFrontend::TranslatableWindow

• TranslatableWindow ()

Constructor for the TranslatableWindow class.

Private Slots

· void initDbClicked ()

Slot for the 'InitDB' button click event.

• void closeDBClicked ()

Slot for the 'CloseDB' button click event.

void executeClicked ()

Slot for the 'Execute' button click event.

void selectTableClicked ()

Slot for the 'SelectTable' button click event.

void addValuesClicked ()

Slot for the 'Add' button click event.

• void updateTableClicked ()

Slot for the 'Update' button click event.

void clearCommandAfterExecuteStateChanged (int arg1)

Slot for the 'clearCommandAfterExecute' state change event.

void clearInputsAfterInsertStateChanged (int arg1)

Slot for the 'clearInputsAfterInsert' state change event.

void returnToLauncherClicked ()

Slot for the 'ReturnToLauncher' button click event.

void settingsClicked ()

Slot for the 'Settings' button click event.

Private Member Functions

- bool devConnectUi ()
- void initDatabase ()

Initializes the database.

void closeDatabase (const QSharedPointer< AposDatabase::DatabaseHandler > &db)

Closes the database.

void setModelViews ()

Sets the model views.

void setModelViews (const QSharedPointer< QSqlTableModel) &tableModel)

Sets the model views with a table model.

· void enableButtons (bool databaseLoaded)

Enables or disables the buttons.

• void assignInputs ()

Assigns the inputs.

void clearInputs (bool clearBool)

Clears the inputs.

bool checkCheckbox (int argCb)

Checks a checkbox.

void clearCommandBox (bool clearBool)

Clears the command box.

Private Attributes

• Ui::DevWindow * ui

Pointer to the user interface of the DevWindow object.

• QSharedPointer< AposBackend::ObjectHandler > ptrObjectHandler = nullptr

Shared pointer to the ObjectHandler object.

QString input1

String values for the inputs.

- QString input2
- QString input3
- · QString input4
- QString input5
- bool clearCommand = false

Boolean values for clearing the command and the inputs.

• bool clearInput = false

10.5.1 Detailed Description

Provides the user interface for the developer window.

The DevWindow class provides the functionality for logging events, retranslating the user interface, initializing and closing the database, setting model views, enabling buttons, assigning inputs, checking checkboxes, and clearing inputs and the command box.

See also

QMainWindow

TranslatableWindow

AposBackend::ObjectHandler

Definition at line 49 of file devwindow.hpp.

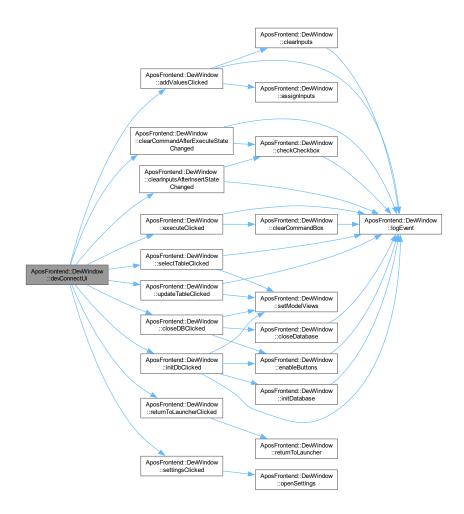
10.5.2 Member Function Documentation

10.5.2.1 devConnectUi()

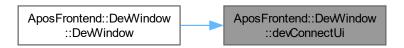
bool AposFrontend::DevWindow::devConnectUi () [private]

Definition at line 44 of file devwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



10.5.2.2 logEvent()

Logs an event with a type and a message.

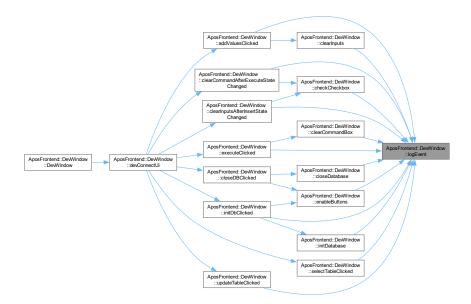
This function logs an event with a specified type and message.

Parameters

type	The type of the event.
message	The message of the event.

Definition at line 61 of file devwindow.cpp.

Here is the caller graph for this function:



10.5.3 Member Data Documentation

10.5.3.1 clearInput

```
bool AposFrontend::DevWindow::clearInput = false [private]
```

Definition at line 362 of file devwindow.hpp.

10.5.3.2 input2

QString AposFrontend::DevWindow::input2 [private]

Definition at line 353 of file devwindow.hpp.

10.5.3.3 input3

QString AposFrontend::DevWindow::input3 [private]

Definition at line 353 of file devwindow.hpp.

10.5.3.4 input4

QString AposFrontend::DevWindow::input4 [private]

Definition at line 353 of file devwindow.hpp.

10.5.3.5 input5

QString AposFrontend::DevWindow::input5 [private]

Definition at line 353 of file devwindow.hpp.

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

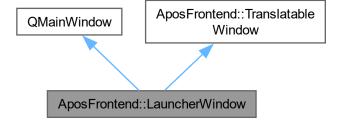
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/devwindow.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/devwindow.cpp

10.6 AposFrontend::LauncherWindow Class Reference

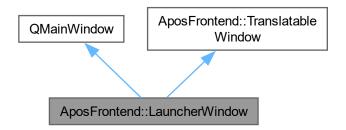
Provides the user interface for the launcher window.

#include <launcherwindow.hpp>

Inheritance diagram for AposFrontend::LauncherWindow:



Collaboration diagram for AposFrontend::LauncherWindow:



Signals

• void openDevWindow ()

Signal for opening the developer window.

• void openSettings ()

Signal for opening the settings.

Public Member Functions

LauncherWindow (QWidget *parent=nullptr, QSharedPointer< AposBackend::ObjectHandler > newObject
 Handler=nullptr)

Constructor for the LauncherWindow class.

• ~LauncherWindow () override

Destructor for the LauncherWindow class.

• void retranslateUi () override

Retranslates the user interface.

Public Member Functions inherited from AposFrontend::TranslatableWindow

• TranslatableWindow ()

Constructor for the TranslatableWindow class.

Private Slots

void showDevClicked ()

Slot for the 'ShowDev' button click event.

void pushButtonClicked ()

Slot for the 'PushButton' button click event.

Private Member Functions

• bool launcherConnectUi ()

Private Attributes

• Ui::LauncherWindow * ui

Pointer to the user interface of the LauncherWindow object.

• QSharedPointer< AposBackend::ObjectHandler > objectHandler = nullptr

Shared pointer to the ObjectHandler object.

10.6.1 Detailed Description

Provides the user interface for the launcher window.

The LauncherWindow class provides the functionality for opening the developer window and settings. It interacts with the QMainWindow and TranslatableWindow classes and uses the ObjectHandler class to manage the application's objects.

See also

AposBackend::ObjectHandler

TranslatableWindow

QMainWindow

Definition at line 45 of file launcherwindow.hpp.

10.6.2 Member Function Documentation

10.6.2.1 launcherConnectUi()

bool AposFrontend::LauncherWindow::launcherConnectUi () [private]

Definition at line 39 of file launcherwindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



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

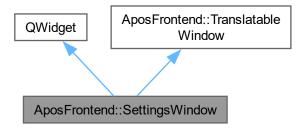
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/launcherwindow.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/launcherwindow.cpp

10.7 AposFrontend::SettingsWindow Class Reference

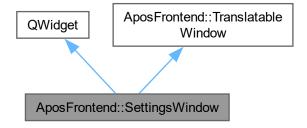
Provides the user interface for the settings window.

#include <settingswindow.hpp>

Inheritance diagram for AposFrontend::SettingsWindow:



Collaboration diagram for AposFrontend::SettingsWindow:



Signals

void appliedSettings ()
 Signal for applying settings.

Public Member Functions

Constructor for the SettingsWindow class.

∼SettingsWindow () override

Destructor for the SettingsWindow class.

• void retranslateUi () override

Retranslates the user interface.

Public Member Functions inherited from AposFrontend::TranslatableWindow

• TranslatableWindow ()

Constructor for the TranslatableWindow class.

Private Slots

void closeClicked ()

Slot for the 'Close' button click event.

void applyClicked ()

Slot for the 'Apply' button click event.

- void applyAndCloseClicked ()
- void languageCurrentIndexChanged (int index)

Slot for the 'Language' combo box index change event.

Private Member Functions

- void settingsConnectUi ()
- void installTranslator ()

Installs the application's translator.

Private Attributes

• Ui::SettingsWindow * ui

Pointer to the user interface of the SettingsWindow object.

• QSharedPointer< AposBackend::ObjectHandler > ptrObjectHandler

Shared pointer to the ObjectHandler object.

 $\bullet \ \ QSharedPointer < QTranslator > ptrTranslator$

Shared pointer to the QTranslator object.

• int languageIndex {}

The index of the selected language.

int tempLanguageIndex {}

The temporary index of the selected language.

bool languageChanged {}

Indicates whether the language has changed.

10.7.1 Detailed Description

Provides the user interface for the settings window.

The SettingsWindow class provides the functionality for applying settings and retranslating the user interface. It interacts with the QWidget and TranslatableWindow classes and uses the ObjectHandler class to manage the application's objects.

See also

AposBackend::ObjectHandler

TranslatableWindow

QWidget

QTranslator

QSharedPointer

Definition at line 49 of file settingswindow.hpp.

10.7.2 Member Function Documentation

10.7.2.1 applyAndCloseClicked

void AposFrontend::SettingsWindow::applyAndCloseClicked () [private], [slot]

Definition at line 67 of file settingswindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:

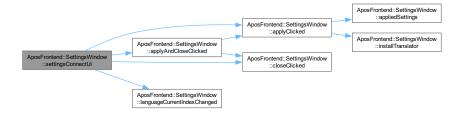


10.7.2.2 settingsConnectUi()

void AposFrontend::SettingsWindow::settingsConnectUi () [private]

Definition at line 40 of file settingswindow.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



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

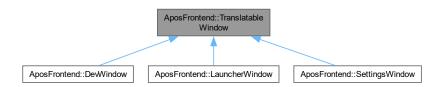
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/settingswindow.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/settingswindow.cpp

10.8 AposFrontend::TranslatableWindow Class Reference

An abstract base class that provides a function for retranslating the user interface.

#include <translatablewindow.hpp>

Inheritance diagram for AposFrontend::TranslatableWindow:



Public Member Functions

TranslatableWindow ()

Constructor for the TranslatableWindow class.

virtual void retranslateUi ()=0

Retranslates the user interface.

10.8.1 Detailed Description

An abstract base class that provides a function for retranslating the user interface.

The TranslatableWindow class is a part of the application's frontend logic. It is used as a base class for other classes that need to retranslate their user interface.

Definition at line 26 of file translatablewindow.hpp.

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

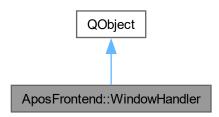
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/translatablewindow.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/translatablewindow.cpp

10.9 AposFrontend::WindowHandler Class Reference

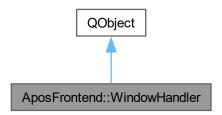
Provides the functionality for managing the application's windows.

#include <windowhandler.hpp>

Inheritance diagram for AposFrontend::WindowHandler:



Collaboration diagram for AposFrontend::WindowHandler:



Public Member Functions

- WindowHandler (QSharedPointer < AposBackend::ObjectHandler > newObjectHandler)
 Constructor for the WindowHandler class.
- void showLaunchWindow ()

Shows the launcher window.

Private Slots

• void showDevWindow ()

Shows the developer window.

• void showSettingsWindow ()

Shows the settings window.

· void applySettings ()

Applies settings.

Private Member Functions

• void changeLanguages ()

Changes languages.

Private Attributes

QSharedPointer< LauncherWindow > ptrLauncherWindow

Shared pointer to the LauncherWindow object.

QSharedPointer< DevWindow > ptrDevWindow

Shared pointer to the DevWindow object.

QSharedPointer< SettingsWindow > ptrSettingsWindow

Shared pointer to the SettingsWindow object.

QSharedPointer< AposBackend::ObjectHandler > ptrObjectHandler

Shared pointer to the ObjectHandler object.

10.9.1 Detailed Description

Provides the functionality for managing the application's windows.

The WindowHandler class is a part of the application's frontend logic. It provides the functionality for showing the launcher window, developer window, and settings window. It also applies settings and changes languages.

See also

AposBackend::ObjectHandler

LauncherWindow

DevWindow

SettingsWindow

QSharedPointer

QObject

Definition at line 48 of file windowhandler.hpp.

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

- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/windowhandler.hpp
- C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/Project/classes/frontendClasses/windowhandler.cpp

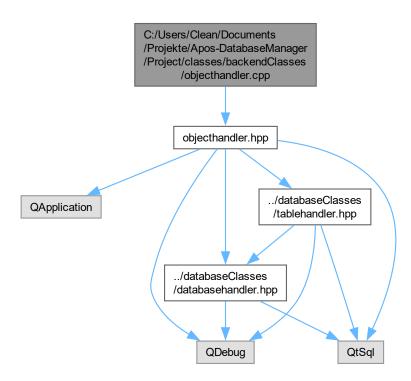
Chapter 11

File Documentation

11.1 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ ← Project/classes/backendClasses/objecthandler.cpp File Reference

Source file for the ObjectHandler class.

#include "objecthandler.hpp"
Include dependency graph for objecthandler.cpp:



Namespaces

• namespace AposBackend

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11.1.1 Detailed Description

Source file for the ObjectHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the ObjectHandler class, which is a part of the application's backend logic. The ObjectHandler class provides the functionality for initializing the database and table objects, setting the active table name, and getting the active database, table handler, database handler, active table name, and table SQL error

Note

The application is part of a student project and is not intended for commercial use.

See also

AposDatabase::DatabaseHandler
AposDatabase::TableHandler

QApplication

QSharedPointer

QDebug

QtSql

Definition in file objecthandler.cpp.

11.2 objecthandler.cpp

```
Go to the documentation of this file.
```

```
00001
00022 #include "objecthandler.hpp"
00023
00024 namespace AposBackend {
00025
00026
          ObjectHandler::ObjectHandler(QSharedPointer<QApplication> newApplication,
00027
                                        QSharedPointer<AposDatabase::DatabaseHandler> newDbHandler,
00028
                                        QSharedPointer<AposDatabase::TableHandler> newTableHandler)
00029
              ptrApplication = newApplication;
00030
              ptrDbHandler = newDbHandler;
00031
              ptrTableHandler = newTableHandler;
00032
00033
00034
         bool ObjectHandler::initDatabaseObject() {
00035
              bool initializedDatabaseObject = false;
```

```
initializedDatabaseObject = ptrDbHandler->initDatabase();
00037
              return initializedDatabaseObject;
00038
00039
00040
         bool ObjectHandler::initTableObject(const QString &inputTableName) {
            bool initializedTableObject = false;
00042
00043
                  ptrTableHandler->generateTableModel(inputTableName);
00044
                  initializedTableObject = true;
00045
              catch (const std::exception &e) {
00046
                 qDebug() « "Error: " « e.what();
initializedTableObject = false;
00047
                 qDebug() « "Error:
00048
00049
00050
              return initializedTableObject;
00051
00052
00053
         QSharedPointer<AposDatabase::TableHandler> ObjectHandler::getPtrTableHandler() const {
00054
00055
             return ptrTableHandler;
00056
00057
00058
        QSharedPointer<AposDatabase::DatabaseHandler> ObjectHandler::getPtrDbHandler() const {
00059
             return ptrDbHandler;
00060
00061
00062
        const OString &ObjectHandler::getActiveTableName() const {
00063
            return ptrTableHandler->getActiveTableName();
00064
00065
00066
        const QSqlError &ObjectHandler::getTableSqlError() const {
00067
            return ptrTableHandler->getLastTableError();
00068
00069
00070
          [[maybe_unused]] QSharedPointer<QSqlDatabase> ObjectHandler::getActiveDatabase() const {
00071
              return ptrDbHandler->getActiveDatabase();
00072
00073
00074
         [[maybe_unused]] void ObjectHandler::setActiveTableName(const QString &newActiveTableName) {
00075
            ptrTableHandler->setActiveTableName(newActiveTableName);
00076
00077
00078
       const QSharedPointer<QApplication> &ObjectHandler::getPtrApplication() const {
00079
            return ptrApplication;
08000
00081
00082 }
00083
00085
00086
```

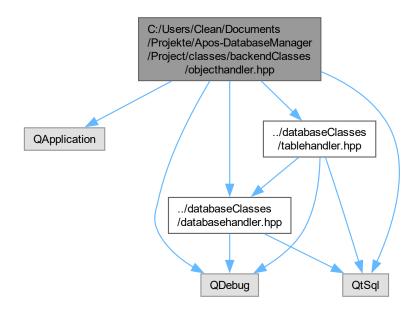
11.3 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/backendClasses/objecthandler.hpp File Reference

Header file for the ObjectHandler class.

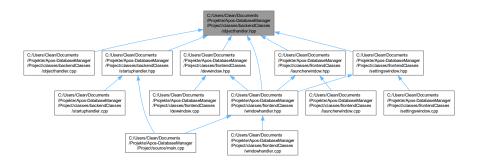
```
#include <QApplication>
#include <QDebug>
#include <QtSql>
#include "../databaseClasses/databasehandler.hpp"
#include "../databaseClasses/tablehandler.hpp"
```

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Include dependency graph for objecthandler.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class AposBackend::ObjectHandler

The ObjectHandler class is a part of the application's backend logic.

Namespaces

• namespace AposBackend

11.4 objecthandler.hpp 93

11.3.1 Detailed Description

Header file for the ObjectHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the declaration of the ObjectHandler class, which is a part of the application's backend logic. The ObjectHandler class provides the functionality for initializing the database and table objects, setting the active table name, and getting the active database, table handler, database handler, active table name, and table SQL error.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposDatabase::DatabaseHandler
AposDatabase::TableHandler
QApplication
QSharedPointer
QDebug
QtSql

Definition in file objecthandler.hpp.

11.4 objecthandler.hpp

Go to the documentation of this file.

```
00001
00023 #pragma once
00024
00025 #include <QApplication>
00026 #include <QDebug>
00027 #include <QtSql>
00028
00029 #include "../databaseClasses/databasehandler.hpp"
00030 #include "../databaseClasses/tablehandler.hpp"
00031
00032
00033 namespace AposBackend {
00048
          class ObjectHandler {
00049
          public:
00058
              ObjectHandler (OSharedPointer < OApplication > newApplication,
00059
                            QSharedPointer<AposDatabase::DatabaseHandler> newDbHandler,
00060
                            QSharedPointer<AposDatabase::TableHandler> newTableHandler);
```

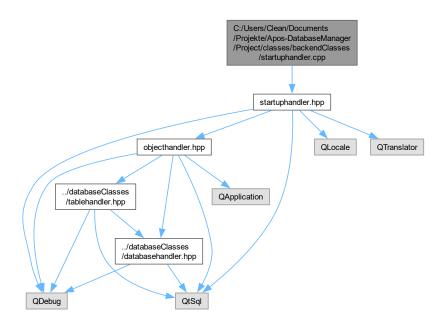
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```
00068
              bool initDatabaseObject();
00069
00077
              bool initTableObject(const QString &inputTableName);
00078
00085
              [[maybe_unused]] void setActiveTableName(const QString &newActiveTableName);
00086
00093
              [[maybe_unused]] [[nodiscard]] QSharedPointer<QSqlDatabase> getActiveDatabase() const;
00094
00101
              [[nodiscard]] QSharedPointer<AposDatabase::TableHandler> getPtrTableHandler() const;
00102
00109
              [[nodiscard]] QSharedPointer<AposDatabase::DatabaseHandler> getPtrDbHandler() const;
00110
00117
              [[nodiscard]] const QString &getActiveTableName() const;
00118
00125
              [[nodiscard]] const QSqlError &getTableSqlError() const;
00126
00133
              [[nodiscard]] const QSharedPointer<QApplication> &getPtrApplication() const;
00134
         private:
00140
              QSharedPointer<QApplication> ptrApplication;
00141
00147
              QSharedPointer<AposDatabase::DatabaseHandler> ptrDbHandler;
00148
              QSharedPointer<AposDatabase::TableHandler> ptrTableHandler;
00154
00155
          };
00156 }
```

11.5 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ ← Project/classes/backendClasses/startuphandler.cpp File Reference

Source file for the StartupHandler class.

#include "startuphandler.hpp"
Include dependency graph for startuphandler.cpp:



Namespaces

• namespace AposBackend

11.5.1 Detailed Description

Source file for the StartupHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the StartupHandler class, which is a part of the application's backend logic. The StartupHandler class provides the functionality for initializing the application's translator and ObjectHandler.

Note

The application is part of a student project and is not intended for commercial use.

See also

ObjectHandler

QApplication

QSharedPointer

QDebug

QtSql

QTranslator

QLocale

Definition in file startuphandler.cpp.

11.6 startuphandler.cpp

Go to the documentation of this file.

```
00001
00022 #include "startuphandler.hpp"
00023
00024 namespace AposBackend {
00025
00026
         StartupHandler::StartupHandler(const QSharedPointer<QApplication> &application) {
00027
              if (application == nullptr) {
                  throw std::runtime_error("QApplication pointer is null");
00028
00029
00030
              this->ptrApplication = application;
00031
00032
00033
         QSharedPointer<ObjectHandler> StartupHandler::startUp() {
00034
00035
                  installTranslator();
00036
                  ptrObjectHandler = initObjectHandler();
```

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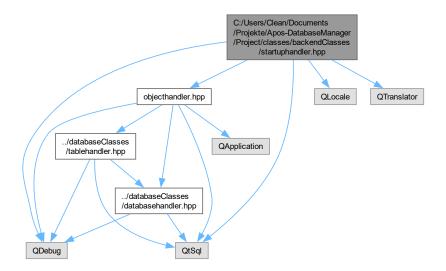
```
} catch (const std::exception &e) {
00038
                  qDebug() « "Exception caught in StartupHandler::startUp: " « e.what();
00039
                  ptrObjectHandler = nullptr;
00040
00041
              return ptrObjectHandler;
00042
00043
00044
          void StartupHandler::installTranslator() {
              QSharedPointer<QTranslator> translator = initTranslator();
00045
              if (ptrApplication->installTranslator(translator.data())) {
00046
                  qDebug() « "Translator installed";
00047
00048
00049
00050
00051
          OSharedPointer<OTranslator> StartupHandler::initTranslator() {
00052
              OSharedPointer<OTranslator> translator(new OTranslator());
00053
              const QStringList uiLanguages = QLocale::system().uiLanguages();
00054
              for (const QString &locale: uiLanguages) {
                  const QString baseName = "Apos-DatabaseManager_" + QLocale(locale).name();
if (translator->load(":/il8n/" + baseName)) {
00055
00056
00057
                      break;
00058
00059
00060
              if (translator->isEmpty()) {
00061
                  throw std::runtime_error("Failed to load translator");
00062
00063
              return translator;
00064
          }
00065
00066
          QSharedPointer<ObjectHandler> StartupHandler::initObjectHandler() {
00067
              QSharedPointer<AposDatabase::DatabaseHandler (new AposDatabase::DatabaseHandler());
00068
              QSharedPointer<AposDatabase::TableHandler> tableHandler(new
     AposDatabase::TableHandler(dbHandler));
00069
              if (dbHandler == nullptr || tableHandler == nullptr) {
00070
                  throw std::runtime_error("Failed to initialize DatabaseHandler or TableHandler");
00071
              return QSharedPointer<ObjectHandler>(new ObjectHandler(ptrApplication, dbHandler,
00072
      tableHandler));
00073
00074
00075 }
```

11.7 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ ← Project/classes/backendClasses/startuphandler.hpp File Reference

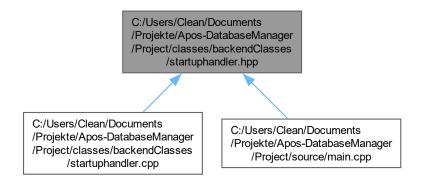
Header file for the StartupHandler class.

```
#include <QDebug>
#include <QtSql>
#include <QLocale>
#include <QTranslator>
#include "objecthandler.hpp"
```

Include dependency graph for startuphandler.hpp:



This graph shows which files directly or indirectly include this file:



Classes

· class AposBackend::StartupHandler

Provides the functionality for initializing the application's translator and ObjectHandler.

Namespaces

• namespace AposBackend

98 File Documentation

11.7.1 Detailed Description

Header file for the StartupHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the declaration of the StartupHandler class, which is a part of the application's backend logic. The StartupHandler class provides the functionality for initializing the application's translator and ObjectHandler.

Note

The application is part of a student project and is not intended for commercial use.

See also

ObjectHandler

QApplication

QSharedPointer

QDebug

QtSql

QTranslator

QLocale

Definition in file startuphandler.hpp.

11.8 startuphandler.hpp

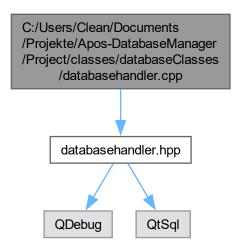
Go to the documentation of this file.

```
00001
00022 #pragma once
00023
00024 #include <QDebug>
00025 #include <QtSql>
00026 #include <QLocale>
00027 #include <QTranslator>
00028
00029 #include "objecthandler.hpp"
00030
00031
00032 namespace AposBackend {
00049
         class StartupHandler {
00050
         public:
00057
              explicit StartupHandler(const OSharedPointer<OApplication> &application);
00058
00065
              QSharedPointer<ObjectHandler> startUp();
00066
              static QSharedPointer<QTranslator> initTranslator();
00073
00074
08000
              void installTranslator();
00081
00088
              QSharedPointer<ObjectHandler> initObjectHandler();
00089
00095
              QSharedPointer<QApplication> ptrApplication;
00096
00102
              QSharedPointer<ObjectHandler> ptrObjectHandler;
00103
          };
00104 }
```

11.9 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/databaseClasses/databasehandler.cpp File Reference

Source file for the DatabaseHandler class.

#include "databasehandler.hpp"
Include dependency graph for databasehandler.cpp:



Namespaces

• namespace AposDatabase

11.9.1 Detailed Description

Source file for the DatabaseHandler class.

Author

Simon Blum

Date

13.11.2023

Version

```
0.1 alpha.2 @license LGPL-V3
```

This file contains the implementation of the DatabaseHandler class, which is a part of the application's backend logic. The DatabaseHandler class provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

Note

The application is part of a student project and is not intended for commercial use.

See also

QtSql

QSqlDatabase

QSqlError

QSharedPointer

QDebug

Definition in file databasehandler.cpp.

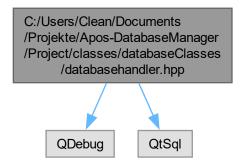
11.10 databasehandler.cpp

```
00001
00020 #include "databasehandler.hpp"
00022 namespace AposDatabase {
00023
00024
         DatabaseHandler::DatabaseHandler() = default;
00025
00026
          bool DatabaseHandler::initDatabase() {
00027
00028
              activeDatabase = QSqlDatabase::addDatabase("QSQLITE", "db1");
00029
              activeDatabase.setDatabaseName(databasePath);
00030
              ptrActiveDatabase = QSharedPointer<QSqlDatabase>(&activeDatabase);
00031
              return activeDatabase.open();
00032
00033
00034
          void DatabaseHandler::closeDatabase() {
00035
             activeDatabase.close();
00036
              QSqlDatabase::removeDatabase("db1");
00037
00038
00039
         bool DatabaseHandler::executeCommand(const QString &command) {
00040
              bool guervExecuted = false;
              QSqlQuery query (activeDatabase);
00041
00042
              if (!query.exec(command)) {
00043
                  lastSqlError = query.lastError();
00044
                  qDebug() « lastSqlError.text();
00045
                  queryExecuted = false;
00046
              } else {
00047
                  queryExecuted = true;
00048
00049
              return queryExecuted;
00050
00051
00052
          OSharedPointer<OSqlDatabase> DatabaseHandler::getActiveDatabase() {
00053
              return ptrActiveDatabase;
00054
00055
00056
         const QSqlError &DatabaseHandler::getSqlError() const {
00057
              return lastSqlError;
00058
00059 }
```

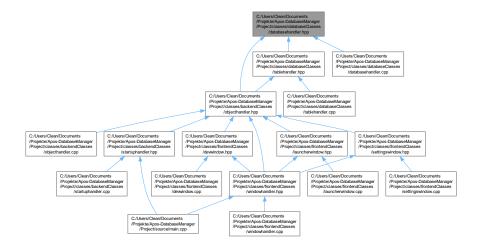
11.11 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/databaseClasses/databasehandler.hpp File Reference

Header file for the DatabaseHandler class.

#include <QDebug>
#include <QtSql>
Include dependency graph for databasehandler.hpp:



This graph shows which files directly or indirectly include this file:



Classes

· class AposDatabase::DatabaseHandler

Provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

Namespaces

• namespace AposDatabase

11.11.1 Detailed Description

Header file for the DatabaseHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the declaration of the DatabaseHandler class, which is a part of the application's backend logic. The DatabaseHandler class provides the functionality for initializing and closing the database, executing SQL commands, and getting the active database and SQL error.

Note

The application is part of a student project and is not intended for commercial use.

See also

QtSal

QSqlDatabase

QSqlError

QSharedPointer

QDebug

Definition in file databasehandler.hpp.

11.12 databasehandler.hpp

Go to the documentation of this file.

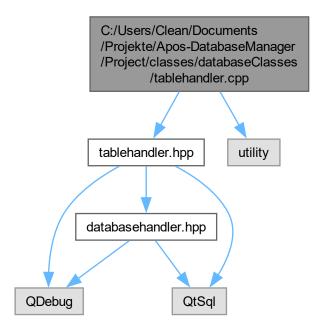
```
00001
00021 #pragma once
00022
00023 #include <QDebug>
00024 #include <QtSql>
00025
00026
00027 namespace AposDatabase {
00040
         class DatabaseHandler {
00041
         public:
00047
             DatabaseHandler();
00048
00055
             bool initDatabase();
00056
00062
             void closeDatabase();
00063
00071
              bool executeCommand(const QString &command);
00072
00079
              QSharedPointer<QSqlDatabase> getActiveDatabase();
00080
00087
              [[nodiscard]] const QSqlError &getSqlError() const;
        private:
88000
00094
             QSqlError lastSqlError;
00095
00101
              QSqlDatabase activeDatabase;
00102
              QSharedPointer<QSqlDatabase> ptrActiveDatabase;
00108
00109
00115
              QString databasePath =
      \verb|R" (C:\Users\Clean\Documents\Projekte\Apos-DatabaseManager\Project\resources\defaultDatabase\userDatabase.db)"; \\
00116
00117 }
```

11.13 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/← Project/classes/databaseClasses/tablehandler.cpp File Reference

Source file for the TableHandler class.

```
#include "tablehandler.hpp"
#include <utility>
```

Include dependency graph for tablehandler.cpp:



Namespaces

• namespace AposDatabase

11.13.1 Detailed Description

Source file for the TableHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the TableHandler class, which is a part of the application's backend logic. The TableHandler class provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

11.14 tablehandler.cpp 105

Note

The application is part of a student project and is not intended for commercial use.

See also

DatabaseHandler

QSharedPointer

QDebug

QtSql

QSqlTableModel

QSqlError

QSqlQuery

QSqlDatabase

Definition in file tablehandler.cpp.

11.14 tablehandler.cpp

```
00001
00023 #include "tablehandler.hpp"
00024
00025 #include <utility>
00027 namespace AposDatabase {
00028
00029
         TableHandler::TableHandler(QSharedPointer<DatabaseHandler> newDbHandler) {
00030
             ptrDbHandler = std::move(newDbHandler);
00031
00032
00033
          TableHandler::TableHandler(QSharedPointer<DatabaseHandler> newDbHandler, const QString &tableName)
00034
              ptrDbHandler = std::move(newDbHandler);
              activeTableName = tableName;
00035
00036
             ptrTableModel = QSharedPointer<QSqlTableModel>(
00037
                      new QSqlTableModel(nullptr, *ptrDbHandler->getActiveDatabase()));
00038
              ptrTableModel->setTable(tableName);
00039
              if (!ptrTableModel->select()) {
    throw std::runtime_error("Failed to select table");
00040
00041
00042
         }
00043
00044
         TableHandler::~TableHandler() {
           ptrTableModel = nullptr;
00045
              gDebug() « "TableHandler destroyed";
00046
00047
         }
00048
00049
         void TableHandler::generateTableModel() {
00050
             ptrTableModel = QSharedPointer<QSqlTableModel>(new QSqlTableModel(nullptr,
      *ptrDbHandler->getActiveDatabase()));
00051
             ptrTableModel->setTable(activeTableName);
00052
              if (!ptrTableModel->select())
00053
                  throw std::runtime_error("Failed to select table");
00054
              }
00055
          }
00056
00057
         void TableHandler::generateTableModel(const QString &tableName) {
00058
             activeTableName = tableName;
00059
              ptrTableModel = QSharedPointer<QSqlTableModel>(new QSqlTableModel(nullptr,
      *ptrDbHandler->getActiveDatabase()));
            ptrTableModel.data()->setTable(activeTableName);
00060
00061
              if (!ptrTableModel.data()->select()) {
00062
                  qDebug() « "Failed to select table:" « ptrTableModel->lastError();
```

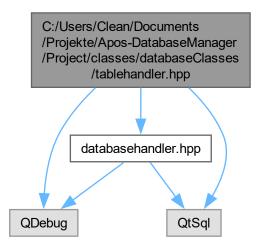
```
throw std::runtime_error("Failed to select table");
00064
00065
00066
00067
          bool TableHandler::insertIntoTable(const OString &tableName, const OString &value1, const OString
00068
                                                const QString &value3, const QString &value4, const QString
00069
               bool querrySuccess = false;
               QSqlQuery query(*ptrDbHandler->getActiveDatabase());
00070
00071
              if (!query.prepare(
00072
                       OString("INSERT INTO %1 VALUES (:value1, :value2, :value3, :value4,
      :value5)").arg(tableName))) {
                  lastTableError = query.lastError();
querrySuccess = false;
00073
00074
00075
00076
              } else {
                  query.bindValue(":value1", value1);
00078
                   query.bindValue(":value2", value2);
                   query.bindValue(":value3", value3);
query.bindValue(":value4", value4);
query.bindValue(":value5", value5);
00079
08000
00081
00082
                   if (!query.exec()) {
00083
                       lastTableError = query.lastError();
                       querrySuccess = false;
00085
                   } else {
00086
                       querrySuccess = true;
00087
                   }
00088
00089
               return querrySuccess;
00090
          }
00092
          const QString &TableHandler::getActiveTableName() const {
00093
               return activeTableName;
00094
00095
00096
          void TableHandler::setActiveTableName(const QString &newActiveTableName) {
00097
               activeTableName = newActiveTableName;
00098
00099
00100
        const QSqlError &TableHandler::getLastTableError() const {
00101
             return lastTableError;
00102
00103
00104
        QSharedPointer<QSqlTableModel> TableHandler::getTableModel() {
             return ptrTableModel;
00106
00107 }
```

11.15 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/databaseClasses/tablehandler.hpp File Reference

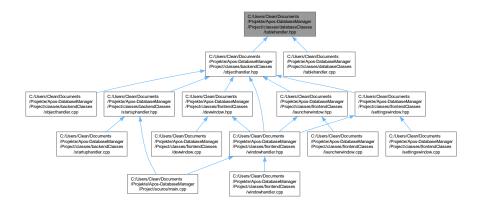
Header file for the TableHandler class.

```
#include <QDebug>
#include <QtSql>
#include "databasehandler.hpp"
```

Include dependency graph for tablehandler.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class AposDatabase::TableHandler

Provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

Namespaces

• namespace AposDatabase

11.15.1 Detailed Description

Header file for the TableHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the declaration of the TableHandler class, which is a part of the application's backend logic. The TableHandler class provides the functionality for generating a table model, inserting into a table, and getting the active table name, table model, and last table error.

Note

The application is part of a student project and is not intended for commercial use.

See also

DatabaseHandler

QSharedPointer

QDebug

QtSql

QSqlTableModel

QSqlError

QSqlQuery

QSqlDatabase

Definition in file tablehandler.hpp.

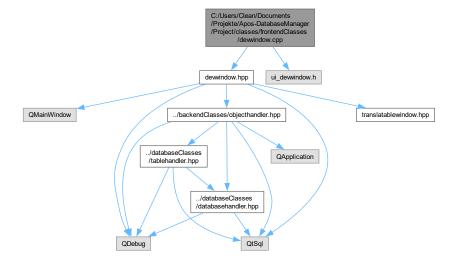
11.16 tablehandler.hpp

```
00065
              TableHandler (QSharedPointer < DatabaseHandler > newDbHandler, const QString & tableName);
00066
00072
              ~TableHandler();
00073
00079
              void generateTableModel();
08000
00087
              void generateTableModel(const QString &tableName);
00088
00101
              bool insertIntoTable(const QString &tableName, const QString &value1, const QString &value2,
00102
                                    const QString &value3, const QString &value4, const QString &value5);
00103
00110
              void setActiveTableName (const OString &newActiveTableName):
00111
00118
              QSharedPointer<QSqlTableModel> getTableModel();
00119
00126
              [[nodiscard]] const QString &getActiveTableName() const;
00127
00134
              [[nodiscard]] const QSqlError &getLastTableError() const;
00135
00141
              QString activeTableName = "userTable";
00142
00148
              QSharedPointer<DatabaseHandler> ptrDbHandler;
00149
              QSharedPointer<QSqlTableModel> ptrTableModel;
00155
00156
00162
              QSqlError lastTableError;
00163
00164 }
```

11.17 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/devwindow.cpp File Reference

Source file for the DevWindow class.

```
#include "devwindow.hpp"
#include "ui_devwindow.h"
Include dependency graph for devwindow.cpp:
```



Namespaces

namespace AposFrontend

11.17.1 Detailed Description

Source file for the DevWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the DevWindow class, which is a part of the application's frontend logic. The DevWindow class inherits from QMainWindow and TranslatableWindow, and it provides the user interface for the developer window.

Note

The application is part of a student project and is not intended for commercial use.

See also

QMainWindow

TranslatableWindow

AposBackend::ObjectHandler

Definition in file devwindow.cpp.

11.18 devwindow.cpp

```
00001
00018 #include "devwindow.hpp"
00019 #include "ui_devwindow.h"
00020
00021 namespace AposFrontend {
00022
00023
         DevWindow::DevWindow(QWidget *parent, QSharedPointer<AposBackend::ObjectHandler> newObjectHandler)
00024
                  : QMainWindow(parent), ui(new Ui::DevWindow) {
              qDebug() « "DevWindow constructor called";
00025
00026
              ui->setupUi(this);
00027
              qDebug() « "DevWindow ui setup";
00028
              ptrObjectHandler = qMove(newObjectHandler);
              qDebug() « "DevWindow ptrObjectHandler moved";
00029
00030
              //TODO: implement Logger
00031
              devConnectUi();
00032
              qDebug() « "DevWindow connected UiElements";
00033
00034
00035
00036
00037
00038
```

11.18 devwindow.cpp 111

```
00039
          DevWindow::~DevWindow() {
00040
00041
              delete ui;
00042
00043
00044
          bool DevWindow::devConnectUi() {
             //TODO: implement Logger
00045
00046
              //Buttons
00047
              connect(ui->btnInitDB, &QPushButton::clicked, this, &DevWindow::initDbClicked);
              \verb|connect(ui->btnCloseDB, &QPushButton::clicked, this, &DevWindow::closeDBClicked)|;\\
00048
00049
              connect(ui->btnExecute, &QPushButton::clicked, this, &DevWindow::executeClicked);
              connect(ui->btnSelectTable, &QPushButton::clicked, this, &DevWindow::selectTableClicked);
00050
00051
               connect(ui->btnAdd, &QPushButton::clicked, this, &DevWindow::addValuesClicked);
00052
               connect(ui->btnUpdate, &QPushButton::clicked, this, &DevWindow::updateTableClicked);
00053
              connect (ui->inReturnToLauncher, &QPushButton::clicked, this,
      &DevWindow::returnToLauncherClicked);
00054
              connect(ui->inSettings, &QPushButton::clicked, this, &DevWindow::settingsClicked);
00055
               //Checkboxes
               connect(ui->clearCommandAfterExecute, &QCheckBox::stateChanged, this,
00056
      &DevWindow::clearCommandAfterExecuteStateChanged);
00057
              connect(ui->clearInputsAfterInsert, &QCheckBox::stateChanged, this,
      &DevWindow::clearInputsAfterInsertStateChanged);
00058
              return true;
00059
00060
00061
          void DevWindow::logEvent(const QString &type,const QString &message) {
00062
              //TODO: implement Logger
00063
              ui->outLog->append("Log | " + type + ": " + message);
00064
               //TODO: implement Logger
00065
              qDebug() « "Logged:
                                    " + type + " - " + message;
00066
00067
00068
          void DevWindow::logEvent(const OString &message.const OSglError &error) {
00069
              //TODO: implement Logger
00070
              ui->outLog->append("Log | " + message + "-" + error.text());
              //TODO: implement Logger
qDebug() « "Logged: " + message + " - " + error.text();
00071
00072
00073
          }
00074
00075
          void DevWindow::logEvent(const QString &message) {
00076
              //TODO: implement Logger
00077
              ui->outLog->append("Log | " + message);
              //TODO: implement Logger
qDebug() « "Logged: " + message;
00078
00079
00080
          }
00081
00082
          void DevWindow::enableButtons(bool databaseLoaded) {
00083
              ui->btnAdd->setEnabled(databaseLoaded);
00084
              ui->btnCloseDB->setEnabled(databaseLoaded);
00085
              ui->btnUpdate->setEnabled(databaseLoaded);
              ui->btnExecute->setEnabled(databaseLoaded);
00086
00087
              ui->btnSelectTable->setEnabled(databaseLoaded);
00088
               ui->btnInitDB->setEnabled(!databaseLoaded);
              //TODO: implement Logger
logEvent("action", "Buttons enabled/disabled");
00089
00090
00091
          }
00092
00093
          void DevWindow::setModelViews(const QSharedPointer<QSqlTableModel>& tableModel) {
00094
              //TODO: implement Logger
               qDebug() «"SharedPointer.data(): " « tableModel->database();
00095
00096
              ui->outTable->setModel(tableModel.data());
00097
              ui->outColumn->setModel(tableModel.data());
00098
              ui->outList->setModel(tableModel.data());
00099
          }
00100
00101
          void DevWindow::setModelViews() {
00102
              ui->outTable->setModel(nullptr);
              ui->outColumn->setModel(nullptr);
00103
00104
              ui->outList->setModel(nullptr);
00105
00106
00107
          void DevWindow::assignInputs() {
00108
              input1 = ui->inInput1->text();
00109
               input2 = ui->inInput2->text();
               input3 = ui->inInput3->text();
00110
              input4 = ui->inInput4->text();
input5 = ui->inInput5->text();
00111
00112
00113
          }
```

```
00114
00115
          void DevWindow::initDatabase() {
00116
             if (!ptrObjectHandler->initDatabaseObject()) {
00117
                   //TODO: implement Logger
00118
                   logEvent("Error initiating database", ptrObjectHandler->getPtrDbHandler()->getSglError());
00119
00120
00121
               else {
                   //TODO: implement Logger
logEvent("action", "Database initiated");
//TODO: implement Logger
00122
00123
00124
00125
                   logEvent ("action",
                             QString(ptrObjectHandler->getPtrDbHandler()->getActiveDatabase()->databaseName())
      + " opened");
                  //TODO: implement Logger
00127
                   logEvent("status", ptrObjectHandler->getPtrDbHandler()->getActiveDatabase()->isOpen()
00128
                                                                                             ? "Database open":
00129
      "Database closed");
00130
              }
00131
00132
00133
          void DevWindow::closeDatabase(const QSharedPointer<AposDatabase::DatabaseHandler>& db) {
00134
              db->closeDatabase();
00135
              //TODO: implement Logger
00136
               logEvent("action", "Database closed");
00137
               //TODO: implement Logger
00138
              logEvent("status",
                        ptrObjectHandler->getPtrDbHandler()->getActiveDatabase()->isOpen() ? "Database open"
00139
      : "Database closed");
00140
00141
00142
          bool DevWindow::checkCheckbox(int argCb) {
00143
              bool checked = false;
               if (argCb == 2) {
00144
00145
                   checked = true;
00146
               } else if (argCb == 0) {
00147
                   checked = false;
00148
               } else {
                   //TODO: implement Logger
00149
                   logEvent("warning", "Something went wrong!");
checked = false;
00150
00151
00152
00153
               return checked;
00154
          }
00155
      //---
00156
          void DevWindow::clearInputs(bool clearBool) {
00157
              if (clearBool) {
00158
                   ui->inInput1->clear();
00159
                   ui->inInput2->clear();
00160
                   ui->inInput3->clear();
00161
                   ui->inInput4->clear();
                   ui->inInput5->clear();
00162
00163
                   //TODO: implement Logger
00164
                   logEvent("action", "cleared inputs");
00165
              }
00166
          }
00167
00168
          void DevWindow::clearCommandBox(bool clearBool) {
00169
             if (clearBool) {
00170
                   ui->inCommand->clear();
                   //TODO: implement Logger
logEvent("action", "tried to clear command-line");
00171
00172
00173
              }
00174
           }
00175
00176
           void DevWindow::initDbClicked() {
00177
              initDatabase();
               //TODO: implement Logger
qDebug() « "Database initialized";
if(!ptrObjectHandler->initTableObject("userTable")){
00178
00179
00180
                   //TODO: implement Logger
00181
00182
                   logEvent("Error initiating table", ptrObjectHandler->getTableSqlError());
00183
                   return;
00184
               //TODO: implement Logger
00185
               qDebug() « "TableHander initialized";
00186
               setModelViews(ptrObjectHandler->getPtrTableHandler()->getTableModel());
00187
00188
               //TODO: implement Logger
00189
               qDebug() « "ModelViews set";
00190
               enableButtons (true);
00191
           }
```

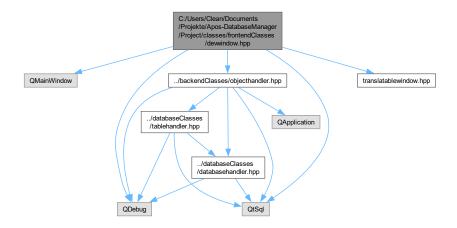
11.18 devwindow.cpp 113

```
00192
          void DevWindow::closeDBClicked() {
00193
00194
              setModelViews();
00195
              closeDatabase(ptrObjectHandler->getPtrDbHandler());
00196
              enableButtons(false);
00197
00198
00199
          void DevWindow::executeClicked() {
              if (!ptrObjectHandler->getPtrDbHandler()->executeCommand(ui->inCommand->toPlainText())) {
00200
00201
                  //TODO: implement Logger
00202
                  logEvent("Error executing command", ptrObjectHandler->getPtrDbHandler()->getSqlError());
00203
                  clearCommandBox(clearCommand);
00204
                  return;
00205
00206
              clearCommandBox(clearCommand);
              //TODO: implement Logger
logEvent("action", "Command executed");
00207
00208
00209
          }
00210
00211
          void DevWindow::selectTableClicked() {
              ptrObjectHandler->getPtrTableHandler()->generateTableModel();
00212
00213
              //TODO: implement Logger
              logEvent("action", "Table selected");
00214
00215
              setModelViews(ptrObjectHandler->getPtrTableHandler()->getTableModel());
00216
00217
00218
          void DevWindow::addValuesClicked() {
00219
              assignInputs();
00220
      (!ptrObjectHandler->getPtrTableHandler()->insertIntoTable(ptrObjectHandler->getActiveTableName(),
      input1, input2,
00221
                                                                       input3.
00222
                                                                       input4, input5)) {
00223
                  //TODO: implement Logger
00224
                  logEvent("Insert Error", ptrObjectHandler->getTableSqlError());
00225
                  clearInputs(clearInput);
                  return;
00226
00227
00228
              clearInputs(clearInput);
00229
              //TODO: implement Logger
00230
              logEvent("action", "Values inserted");
00231
          }
00232
00233
          void DevWindow::updateTableClicked() {
00234
             ptrObjectHandler->getPtrTableHandler()->generateTableModel();
              setModelViews(ptrObjectHandler->getPtrTableHandler()->getTableModel());
00236
              //TODO: implement Logger
00237
              logEvent("action", "Table view updated");
00238
          }
00239
00240
          void DevWindow::clearCommandAfterExecuteStateChanged(int arg1) {
              clearCommand = checkCheckbox(arg1);
00241
00242
              //TODO: implement Logger
              logEvent("status", "Command will clear after execute: " + QString(clearCommand ? "true" :
00243
      "false"));
00244
          }
00245
00246
          void DevWindow::clearInputsAfterInsertStateChanged(int arg1) {
00247
              clearInput = checkCheckbox(arg1);
00248
              //TODO: implement Logger
              logEvent("status", "Inputs will be cleared after execution: " + QString(clearInput ? "true" :
00249
      "false"));
00250
          }
00251
00252
          void DevWindow::returnToLauncherClicked() {
00253
              emit returnToLauncher();
00254
00256
          void DevWindow::settingsClicked() {
00257
             emit openSettings();
00258
00259
00260
          void DevWindow::retranslateUi() {
00261
              ui->retranslateUi(this);
00262
00263
00264 }
```

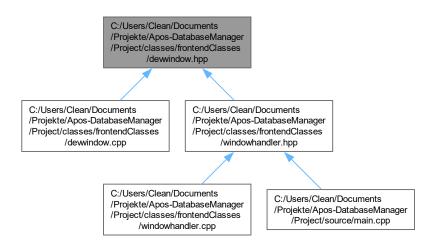
11.19 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ ← Project/classes/frontendClasses/devwindow.hpp File Reference

Header file for the DevWindow class.

```
#include <QMainWindow>
#include <QDebug>
#include <QtSql>
#include "../backendClasses/objecthandler.hpp"
#include "translatablewindow.hpp"
Include dependency graph for devwindow.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

· class AposFrontend::DevWindow

Provides the user interface for the developer window.

Namespaces

- namespace Ui
- · namespace AposFrontend

11.19.1 Detailed Description

Header file for the DevWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the declaration of the DevWindow class, which is a part of the application's frontend logic. The DevWindow class inherits from QMainWindow and TranslatableWindow, and it provides the user interface for the developer window.

Note

The application is part of a student project and is not intended for commercial use.

See also

TranslatableWindow

AposBackend::ObjectHandler

QMainWindow

QSharedPointer

QDebug

QtSql

Definition in file devwindow.hpp.

11.20 devwindow.hpp

```
00001
00022 #pragma once
00023
00024 #include <QMainWindow>
00025 #include <QDebug>
00026 #include <QtSql>
00027
00028 #include "../backendClasses/objecthandler.hpp"
00029 #include "translatablewindow.hpp"
00030
00031
00032 namespace Ui { class DevWindow; }
00033
00034 namespace AposFrontend {
00049
          class DevWindow: public QMainWindow, public TranslatableWindow {
00050
          Q_OBJECT
00051
             explicit DevWindow(QWidget *parent = nullptr, QSharedPointer<AposBackend::ObjectHandler>
00062
     objectHandler = nullptr);
00063
00071
              ~DevWindow() override;
00072
00073
00074
00075
              //TODO: Replace with logging class
00085
              void logEvent(const QString &type, const QString &message);
00086
00097
              void logEvent(const QString &message, const QSqlError &error);
00098
00108
              void logEvent(const QString &message);
00109
00117
             void retranslateUi() override;
00118
         signals:
00125
              void returnToLauncher();
00126
00134
              void openSettings();
00135
         private slots:
             void initDbClicked();
00143
00144
00152
              void closeDBClicked();
00153
00161
              void executeClicked();
00162
00170
              void selectTableClicked();
00171
00179
              void addValuesClicked();
00180
00188
              void updateTableClicked();
00189
00199
              void clearCommandAfterExecuteStateChanged(int arg1);
00200
00210
              void clearInputsAfterInsertStateChanged(int arg1);
00211
00219
              void returnToLauncherClicked();
00220
00228
              void settingsClicked();
00229
00230
         private:
00231
              //TODO: Add documentation
00232
              bool devConnectUi();
00233
00241
              void initDatabase();
00242
00252
              void closeDatabase(const QSharedPointer<AposDatabase::DatabaseHandler> &db);
00253
00261
              void setModelViews();
00262
00272
              void setModelViews(const QSharedPointer<QSqlTableModel);</pre>
00273
00283
              void enableButtons(bool databaseLoaded);
00284
00292
              void assignInputs();
00293
00303
              void clearInputs(bool clearBool);
00304
00315
              bool checkCheckbox(int argCb);
00316
00326
              void clearCommandBox(bool clearBool);
00327
00335
              Ui::DevWindow *ui;
```

```
00336
00344
00345
00353
00354
00362
00363
00363
00364
00365
}

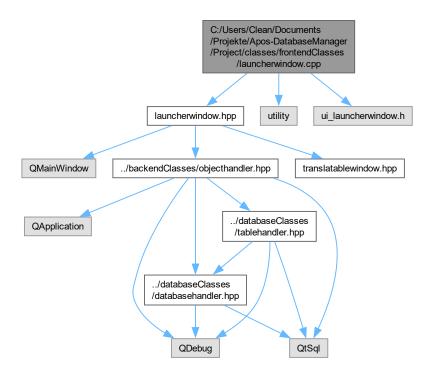
QSharedPointer<AposBackend::ObjectHandler > ptrObjectHandler = nullptr;
input2, input3, input4, input5;
bool clearCommand = false, clearInput = false;

03664
03665
}
```

11.21 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/launcherwindow.cpp File Reference

Source file for the LauncherWindow class.

```
#include "launcherwindow.hpp"
#include <utility>
#include "ui_launcherwindow.h"
Include dependency graph for launcherwindow.cpp:
```



Namespaces

namespace AposFrontend

11.21.1 Detailed Description

Source file for the LauncherWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the implementation of the LauncherWindow class, which is a part of the application's frontend logic. The LauncherWindow class inherits from QMainWindow and TranslatableWindow, and it provides the user interface for the launcher window.

Note

The application is part of a student project and is not intended for commercial use.

See also

00001

AposBackend::ObjectHandler

TranslatableWindow

QMainWindow

Definition in file launcherwindow.cpp.

11.22 launcherwindow.cpp

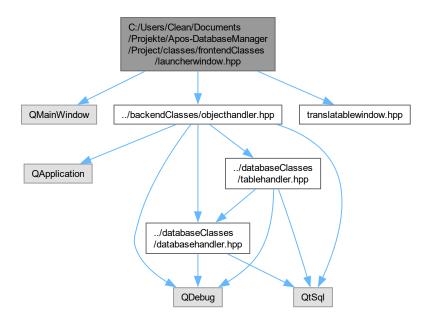
```
00018 #include "launcherwindow.hpp"
00019
00020 #include <utility>
00021 #include "ui_launcherwindow.h"
00022
00023
00024 namespace AposFrontend {
00025
00026
         LauncherWindow::LauncherWindow(QWidget *parent, QSharedPointer<AposBackend::ObjectHandler>
     newObjectHandler) :
00027
              QMainWindow(parent),
00028
                  ui(new Ui::LauncherWindow) {
             ui->setupUi(this);
00029
00030
             objectHandler = std::move(newObjectHandler);
00031
              //TODO: implement Logger
00032
              launcherConnectUi();
00033
00034
00035
         LauncherWindow::~LauncherWindow() {
00036
             delete ui;
00037
```

```
00038
00039
         bool LauncherWindow::launcherConnectUi() {
           //TODO: implement Logger
00040
00041
             connect(ui->btnShowDev, SIGNAL(clicked()), this, SLOT(showDevClicked()));
00042
             //TODO: implement Logger
             connect(ui->btnSettings, SIGNAL(clicked()), this, SLOT(pushButtonClicked()));
00044
00045
        }
00046
00047
        void LauncherWindow::showDevClicked() {
00048
             emit openDevWindow();
00049
//-----
00051
00052
       void LauncherWindow::pushButtonClicked() {
00052
            emit openSettings();
00053
00054
00055
         void LauncherWindow::retranslateUi() {
00056
00057 }
```

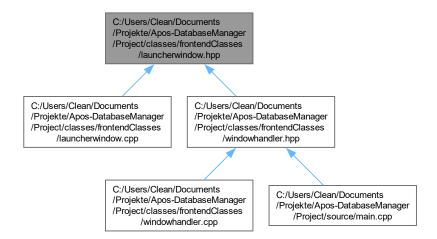
11.23 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/launcherwindow.hpp File Reference

Header file for the LauncherWindow class.

```
#include <QMainWindow>
#include "../backendClasses/objecthandler.hpp"
#include "translatablewindow.hpp"
Include dependency graph for launcherwindow.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

· class AposFrontend::LauncherWindow

Provides the user interface for the launcher window.

Namespaces

- namespace Ui
- namespace AposFrontend

11.23.1 Detailed Description

Header file for the LauncherWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the declaration of the LauncherWindow class, which is a part of the application's frontend logic. The LauncherWindow class inherits from QMainWindow and TranslatableWindow, and it provides the user interface for the launcher window.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposBackend::ObjectHandler

TranslatableWindow

QMainWindow

Definition in file launcherwindow.hpp.

11.24 launcherwindow.hpp

```
Go to the documentation of this file.
00001
00019 #pragma once
00020
00021 #include <OMainWindow>
00023 #include "../backendClasses/objecthandler.hpp" 00024 #include "translatablewindow.hpp"
00025
00026
00027 namespace Ui {
00028
         class LauncherWindow;
00029 }
00030
00031 namespace AposFrontend {
00045 class LauncherWindow: public QMainWindow, public TranslatableWindow {
00047
00055
            explicit LauncherWindow(QWidget *parent = nullptr,
nullptr);
                                       QSharedPointer<AposBackend::ObjectHandler> newObjectHandler =
00063
              ~LauncherWindow() override;
00065
00066
00072
              void retranslateUi() override;
        signals:
00073
              void openDevWindow();
08000
00086
              void openSettings();
       private slots:
00087
              void showDevClicked();
00093
00094
00100
              void pushButtonClicked();
00102
             //TODO: Add documentation
00103
              bool launcherConnectUi();
00104
              Ui::LauncherWindow *ui:
00110
00111
00117
              QSharedPointer<AposBackend::ObjectHandler> objectHandler = nullptr;
```

11.25 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/settingswindow.cpp File Reference

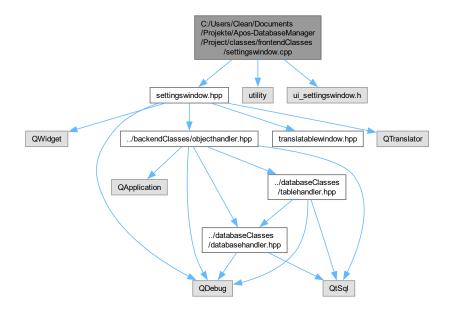
Source file for the SettingsWindow class.

00118

00119 }

};

```
#include "settingswindow.hpp"
#include <utility>
#include "ui_settingswindow.h"
Include dependency graph for settingswindow.cpp:
```



Namespaces

namespace AposFrontend

11.25.1 Detailed Description

Source file for the SettingsWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the SettingsWindow class, which is a part of the application's frontend logic. The SettingsWindow class inherits from QWidget and TranslatableWindow, and it provides the user interface for the settings window.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposBackend::ObjectHandler

TranslatableWindow

QWidget

QTranslator

QSharedPointer

Definition in file settingswindow.cpp.

11.26 settingswindow.cpp

```
00001
00020 #include "settingswindow.hpp"
00021
00022 #include <utility>
00023 #include "ui_settingswindow.h"
00024
00025
00026 namespace AposFrontend {
          SettingsWindow::SettingsWindow(OWidget *parent, OSharedPointer<AposBackend::ObjectHandler>
00027
     newObjectHandler) :
00028
                   QWidget (parent),
00029
                    ui(new Ui::SettingsWindow) {
00030
               ui->setupUi(this);
               ptrObjectHandler = std::move(newObjectHandler);
00031
               ptrTranslator = QSharedPointer<QTranslator>(new QTranslator);
00032
00033
               settingsConnectUi();
00034
          }
00035
00036
           SettingsWindow::~SettingsWindow() {
00037
               delete ui;
00038
00039
00040
          void SettingsWindow::settingsConnectUi() {
00041
               //TODO: implement Logger
               connect(ui->btnClose, SIGNAL(clicked()), this, SLOT(closeClicked()));
connect(ui->btnApply, SIGNAL(clicked()), this, SLOT(applyClicked()));
00042
00043
               connect(ui->btnApplyAndClose, SIGNAL(clicked()), this, SLOT(applyAndCloseClicked()));
connect(ui->inLanguage, SIGNAL(currentIndexChanged(int)), this,
00044
00045
      SLOT(languageCurrentIndexChanged(int)));
00046
00047
00048
           void SettingsWindow::retranslateUi() {
00049
               ui->retranslateUi(this);
00050
00051
           void SettingsWindow::closeClicked() {
00053
               this->hide();
00054
00055
00056
00057
          void SettingsWindow::applyClicked() {
00058
               if (languageChanged) {
00059
                   qDebug() « "New Language will be applied";
00060
00061
                    languageIndex = tempLanguageIndex;
00062
                    installTranslator();
00063
00064
               emit appliedSettings();
00065
          }
00066
00067
           void SettingsWindow::applyAndCloseClicked() {
00068
               applyClicked();
00069
               closeClicked();
00070
           }
```

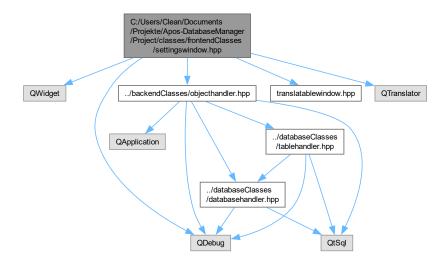
```
void SettingsWindow::languageCurrentIndexChanged(int index) {
00074
              tempLanguageIndex = index;
             qDebug() « "checkboxIndex: " « index « "tempIndex: " « tempLanguageIndex « "index: " «
00075
     languageIndex;
             if (tempLanguageIndex == languageIndex) {
00076
                 qDebug() « "Language not changed";
00078
                 languageChanged = false;
00079
08000
              qDebug() « "Language changed";
00081
00082
              languageChanged = true;
00083
         }
00084
00085
         void SettingsWindow::installTranslator() {
00086
             qDebug() « "Language Index: " « languageIndex;
00087
00088
              OTranslator *translator = ptrTranslator.data();
             if(ptrObjectHandler->getPtrApplication()->removeTranslator(translator)){
00089
00090
                 qDebug() « "removed translator";
00091
00092
                 qDebug() « "could not remove translator";
00093
00094
00095
             ptrTranslator = QSharedPointer<QTranslator>(new QTranslator);
00096
             switch (languageIndex) {
00097
00098
                      (void)ptrTranslator->load(":/i18n/Apos-DatabaseManager_en_GB");
00099
                      qDebug() « "tried to load english";
                     translator = ptrTranslator.data();
00100
00101
                      (void)ptrObjectHandler->getPtrApplication()->installTranslator(translator);
00102
                     break;
00103
                 case 1:
00104
                      (void)ptrTranslator->load(":/i18n/Apos-DatabaseManager_de_DE");
00105
                     qDebug() « "tried to load german";
                     translator = ptrTranslator.data();
00106
                     (void)ptrObjectHandler->getPtrApplication()->installTranslator(translator);
00107
00108
                     break;
00109
                 default:
00110
                    qDebug() « "no language selected";
                     break;
00111
00112
00113
         }
00114 }
```

11.27 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/settingswindow.hpp File Reference

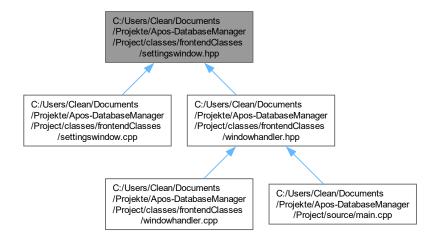
Header file for the SettingsWindow class.

```
#include <QWidget>
#include <QDebug>
#include "../backendClasses/objecthandler.hpp"
#include "translatablewindow.hpp"
#include <QTranslator>
```

Include dependency graph for settingswindow.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class AposFrontend::SettingsWindow

Provides the user interface for the settings window.

Namespaces

- namespace Ui
- namespace AposFrontend

11.27.1 Detailed Description

Header file for the SettingsWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the declaration of the SettingsWindow class, which is a part of the application's frontend logic. The SettingsWindow class inherits from QWidget and TranslatableWindow, and it provides the user interface for the settings window.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposBackend::ObjectHandler

TranslatableWindow

QWidget

QTranslator

QSharedPointer

Definition in file settingswindow.hpp.

11.28 settingswindow.hpp

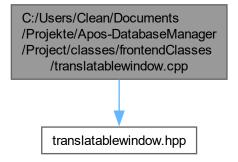
```
00021 #pragma once
00022
00023 #include <QWidget>
00024 #include <QDebug>
00025 #include "../backendClasses/objecthandler.hpp"
00026 #include "translatablewindow.hpp"
00027 #include <QTranslator>
00028
00029
00030 namespace Ui {
          class SettingsWindow;
00032 }
00033
00034 namespace AposFrontend {
00049
          class SettingsWindow : public QWidget, public TranslatableWindow {
00050
          Q_OBJECT
00051
          public:
```

```
00059
              explicit SettingsWindow(QWidget *parent = nullptr,
00060
                                      QSharedPointer<AposBackend::ObjectHandler> newObjectHandler =
      nullptr);
00061
00067
              ~SettingsWindow() override;
00068
             void retranslateUi() override;
00075
        signals:
00081
              void appliedSettings();
00082
         private slots:
             void closeClicked();
00088
00089
00095
             void applyClicked();
00096
00097
              //TODO: add Documentation
00098
             void applyAndCloseClicked();
00099
00106
             void languageCurrentIndexChanged(int index);
00107
        private:
00108
             //TODO: add Documentation
00109
              void settingsConnectUi();
00110
              void installTranslator();
00116
00117
00123
              Ui::SettingsWindow *ui;
00124
00130
              QSharedPointer<AposBackend::ObjectHandler> ptrObjectHandler;
00131
00137
              QSharedPointer<QTranslator> ptrTranslator;
00138
00144
              int languageIndex{};
00145
00151
              int tempLanguageIndex{};
00152
00158
              bool languageChanged{};
00159
00160 }
```

11.29 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/translatablewindow.cpp File Reference

Source file for the TranslatableWindow class.

#include "translatablewindow.hpp"
Include dependency graph for translatablewindow.cpp:



Namespaces

namespace AposFrontend

11.29.1 Detailed Description

Source file for the TranslatableWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the implementation of the TranslatableWindow class, which is a part of the application's frontend logic. The TranslatableWindow class is an abstract base class that provides a function for retranslating the user interface.

Note

The application is part of a student project and is not intended for commercial use.

Definition in file translatablewindow.cpp.

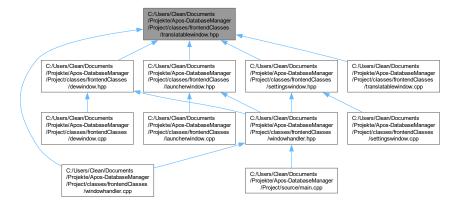
11.30 translatablewindow.cpp

```
Go to the documentation of this file.
```

11.31 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/translatablewindow.hpp File Reference

Header file for the TranslatableWindow class.

This graph shows which files directly or indirectly include this file:



Classes

class AposFrontend::TranslatableWindow

An abstract base class that provides a function for retranslating the user interface.

Namespaces

namespace AposFrontend

11.31.1 Detailed Description

Header file for the TranslatableWindow class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the declaration of the TranslatableWindow class, which is a part of the application's frontend logic. The TranslatableWindow class is an abstract base class that provides a function for retranslating the user interface.

Note

The application is part of a student project and is not intended for commercial use.

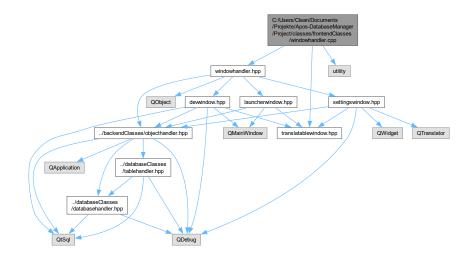
Definition in file translatablewindow.hpp.

11.32 translatablewindow.hpp

11.33 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/windowhandler.cpp File Reference

Source file for the WindowHandler class.

```
#include "windowhandler.hpp"
#include <utility>
#include "translatablewindow.hpp"
Include dependency graph for windowhandler.cpp:
```



Namespaces

namespace AposFrontend

11.33.1 Detailed Description

Source file for the WindowHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1_alpha.2 @license LGPL-V3

This file contains the implementation of the WindowHandler class, which is a part of the application's frontend logic. The WindowHandler class provides the functionality for managing the application's windows, including the launcher window, developer window, and settings window. It interacts with the LauncherWindow, DevWindow, and SettingsWindow classes and uses the ObjectHandler class to manage the application's objects.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposBackend::ObjectHandler

LauncherWindow

DevWindow

SettingsWindow

QSharedPointer

QObject

Definition in file windowhandler.cpp.

11.34 windowhandler.cpp

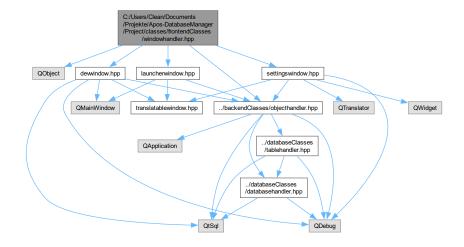
```
00001
00022 #include "windowhandler.hpp"
00024 #include <utility>
00025 #include "translatablewindow.hpp"
00026
00027 namespace AposFrontend {
          WindowHandler::WindowHandler(QSharedPointer<AposBackend::ObjectHandler> newObjectHandler) {
00029
00030
              ptrObjectHandler = qMove(newObjectHandler);
00031
              ptrLauncherWindow = QSharedPointer<LauncherWindow>(new LauncherWindow(nullptr,
      ptrObjectHandler));
00032
              ptrSettingsWindow = QSharedPointer<SettingsWindow>(new SettingsWindow(nullptr,
      ptrObjectHandler));
00033
              (void) QObject::connect(ptrLauncherWindow.data(), &LauncherWindow::openDevWindow, this,
      &WindowHandler::showDevWindow,
00034
                               Qt::DirectConnection);
00035
              (void)QObject::connect(ptrLauncherWindow.data(), &LauncherWindow::openSettings, this,
      &WindowHandler::showSettingsWindow);
00036
              (void) QObject::connect(ptrSettingsWindow.data(), &SettingsWindow::appliedSettings, this,
     &WindowHandler::applySettings);
00037
00038
00039
          void WindowHandler::showLaunchWindow() {
00040
              if (ptrDevWindow != nullptr) {
00041
00042
                  if (!ptrDevWindow->isHidden()) {
00043
                      ptrDevWindow->hide();
00044
00045
              ptrLauncherWindow->show();
00046
00047
          }
00048
          void WindowHandler::showDevWindow() {
00050
              ptrLauncherWindow->hide();
00051
               if (ptrDevWindow == nullptr)
                  ptrDevWindow = QSharedPointer<DevWindow>(new DevWindow(nullptr, ptrObjectHandler));
00052
00053
                  QObject::connect(ptrDevWindow.data(), &DevWindow::returnToLauncher, this,
      &WindowHandler::showLaunchWindow,
00054
                                    Qt::DirectConnection);
00055
                  QObject::connect(ptrDevWindow.data(), &DevWindow::openSettings, this,
      &WindowHandler::showSettingsWindow,
00056
                                    Ot::DirectConnection);
00057
              if(ptrDevWindow != nullptr) {
00058
00059
                  ptrDevWindow->show();
00060
00061
00062
00063
00064
          void WindowHandler::showSettingsWindow() {
00065
              ptrSettingsWindow->show();
00066
```

```
00067
00068
          void WindowHandler::applySettings() {
00069
              changeLanguages();
00070
00071
00072
          void WindowHandler::changeLanguages() {
00073
              QWidgetList openWindows = ptrObjectHandler->getPtrApplication()->topLevelWidgets();
00074
               for (QWidget* widget: std::as_const(openWindows)) {
00075
                  auto *tw = dynamic_cast<TranslatableWindow *>(widget);
                  if (tw != nullptr) {
    qDebug() « "Dynamic cast pointer adress " « tw;
00076
00077
                       tw->retranslateUi();
00078
00079
08000
00081
              qDebug() « openWindows;
00082
00083 1
```

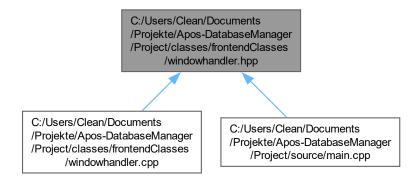
11.35 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/ Project/classes/frontendClasses/windowhandler.hpp File Reference

Header file for the WindowHandler class.

```
#include <QObject>
#include "launcherwindow.hpp"
#include "devwindow.hpp"
#include "settingswindow.hpp"
#include "../backendClasses/objecthandler.hpp"
Include dependency graph for windowhandler.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

· class AposFrontend::WindowHandler

Provides the functionality for managing the application's windows.

Namespaces

• namespace AposFrontend

11.35.1 Detailed Description

Header file for the WindowHandler class.

Author

Simon Blum

Date

13.11.2023

Version

0.1 alpha.2 @license LGPL-V3

This file contains the declaration of the WindowHandler class, which is a part of the application's frontend logic. The WindowHandler class provides the functionality for managing the application's windows, including the launcher window, developer window, and settings window. It interacts with the LauncherWindow, DevWindow, and Settings Window classes and uses the ObjectHandler class to manage the application's objects.

Note

The application is part of a student project and is not intended for commercial use.

See also

AposBackend::ObjectHandler

LauncherWindow

DevWindow

SettingsWindow

QSharedPointer

QObject

Definition in file windowhandler.hpp.

11.36 windowhandler.hpp

Go to the documentation of this file.

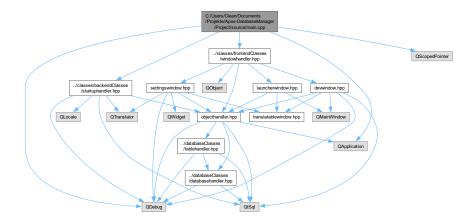
```
00023 #pragma once
00024
00025 #include <QObject>
00026 #include "launcherwindow.hpp'
00027 #include "devwindow.hpp"
00028 #include "settingswindow.hpp"
00029 #include "../backendClasses/objecthandler.hpp"
00031
00032 namespace AposFrontend {
00048
         class WindowHandler : public QObject {
         public:
             explicit WindowHandler(QSharedPointer<AposBackend::ObjectHandler> newObjectHandler);
00057
00063
              void showLaunchWindow();
00064
       private slots:
00070
             void showDevWindow();
00071
00077
             void showSettingsWindow();
00078
00084
             void applySettings();
00085
        private:
00091
             void changeLanguages();
00092
             QSharedPointer<LauncherWindow> ptrLauncherWindow;
00099
00105
             QSharedPointer<DevWindow> ptrDevWindow;
00106
00112
              QSharedPointer<SettingsWindow> ptrSettingsWindow;
00113
00119
              QSharedPointer<AposBackend::ObjectHandler> ptrObjectHandler;
00120
         };
00121 }
```

- 11.37 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/

 Project/CONTRIBUTING.md File Reference
- 11.38 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/
 Project/README.md File Reference
- 11.39 C:/Users/Clean/Documents/Projekte/Apos-DatabaseManager/
 Project/source/main.cpp File Reference

Main entry point for the application.

```
#include "../classes/backendClasses/startuphandler.hpp"
#include "../classes/frontendClasses/windowhandler.hpp"
#include <QApplication>
#include <QDebug>
#include <QScopedPointer>
Include dependency graph for main.cpp:
```



Namespaces

• namespace Applnitialization

Functions

 QSharedPointer< AposBackend::StartupHandler > AppInitialization::initializeStartupHandler (const QSharedPointer< QApplication > &newApp)

Initialize the StartupHandler object.

 QSharedPointer< AposBackend::ObjectHandler > AppInitialization::initializeObjectHandler (const QSharedPointer< AposBackend::StartupHandler > &startupHandler)

Initialize the ObjectHandler object.

 QSharedPointer< AposFrontend::WindowHandler > AppInitialization::initializeWindowHandler (const QSharedPointer< AposBackend::ObjectHandler > &objectHandler)

Initialize the WindowHandler object.

• int main (int argc, char *argv[])

Main function.

11.39.1 Detailed Description

Main entry point for the application.

Author

Simon Blum

Date

13.11.2023

Version

```
0.1 alpha.2 @license LGPL-V3
```

This file contains the main function, which represents the entry point for the application. It initializes the QApplication, StartupHandler, and ObjectHandler objects. It also creates a WindowHandler object and shows the launch window.

The application is built using the Qt framework and follows the object-oriented programming paradigm. The main function initializes the necessary objects and starts the application's event loop. The QApplication object encapsulates the functionality of Qts core application class for GUI-based applications. The StartupHandler, ObjectHandler, and WindowHandler classes are part of the application's backend and frontend logic.

@deviation MISRA 3-1-3 The argv parameter in the main function is a pointer to an array of C-style strings. This array is not explicitly sized, which violates MISRA rule 3-1-3. However, the parameters of the main function are defined by the C++ standard, and changing them would not be compliant with the standard. This deviation is considered acceptable because the size of the argv array is managed by the runtime environment, and the array is guaranteed to be null-terminated. Therefore, the risk of out-of-bounds access is minimal.

@deviation MISRA 7-3-1 The main – defined as qMain – function is part of the global namespace, which violates MISRA rule 7-3-1. However, since the qMain function acts as the main function within the Qt framework, this deviation is considered acceptable.

Note

The application is part of a student project and is not intended for commercial use.

See also

QApplication

StartupHandler

ObjectHandler

WindowHandler

Definition in file main.cpp.

11.39.2 Function Documentation

11.39.2.1 main()

Main function.

This is the main function, which is the entry point for the application. It initializes the QApplication, ObjectHandler, and WindowHandler objects, and starts the application's event loop.

11.40 main.cpp 137

Parameters

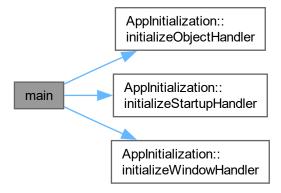
argc	Argument count
argv	Argument vector

Returns

int Application exit status

Definition at line 98 of file main.cpp.

Here is the call graph for this function:



11.40 main.cpp

```
00039 // Local includes
00040 #include "../classes/backendClasses/startuphandler.hpp" 00041 #include "../classes/frontendClasses/windowhandler.hpp"
00042 // System includes
00043 #include <QApplication>
00044 #include <QDebug>
00045 #include <QScopedPointer>
00046 // Declaration of
      functions----
00047 namespace AppInitialization {
00057
          QSharedPointer<AposBackend::StartupHandler> initializeStartupHandler(const
      QSharedPointer<QApplication>& newApp);
00058
           {\tt QSharedPointer} \verb|<AposBackend::ObjectHandler| > initializeObjectHandler| (
00069
00070
                   const QSharedPointer<AposBackend::StartupHandler>& startupHandler);
00071 //
00083
           QSharedPointer<AposFrontend::WindowHandler>
00084
           initializeWindowHandler(const QSharedPointer<AposBackend::ObjectHandler>& objectHandler);
00085
00086 // Implementation of functions
00098 int main(int argc, char *argv[]) { // NOLINT(clion-misra-cpp2008-3-1-3, clion-misra-cpp2008-7-3-1)
```

```
00099
          int returnStatus = -1; // Initialize return status to -1 (error state)
00100
          try {
00101
              QSharedPointer<QApplication> application(new QApplication(argc, argv));
00102
              qDebug() « "Application Object initialized";
00103
00104
              OSharedPointer<AposBackend::StartupHandler>
00105
                      startupHandler = AppInitialization::initializeStartupHandler(application);
00106
              QSharedPointer<AposBackend::ObjectHandler>
00107
                      objectHandler = AppInitialization::initializeObjectHandler(startupHandler);
00108
              QSharedPointer<AposFrontend::WindowHandler> windowHandler =
     AppInitialization::initializeWindowHandler(
00109
                     objectHandler);
00110
00111
              returnStatus = QApplication::exec(); // Update return status
00112
          } catch (const std::exception &e)
00113
             qDebug() « "Exception caught in main: " « e.what();
00114
          return returnStatus; // Single point of exit
00115
00116 }
00117 //
00118 namespace AppInitialization {
00119
          QSharedPointer<AposBackend::StartupHandler> initializeStartupHandler(const
      QSharedPointer<QApplication>& newApp) {
00121
             if (newApp == nullptr) {
00122
                  throw std::runtime_error("QApplication pointer is null");
00123
00124
00125
              QSharedPointer<AposBackend::StartupHandler> startupHandler(new
     00126
00127
              return startupHandler;
00128
         }
00129
00130
          QSharedPointer<AposBackend::ObjectHandler>
00131
          initializeObjectHandler(const QSharedPointer<AposBackend::StartupHandler>& startupHandler) {
00132
              {\tt QSharedPointer} < {\tt AposBackend::ObjectHandler} > {\tt objectHandler(startupHandler-> startUp());}
00133
00134
              if (objectHandler == nullptr)
                  throw std::runtime_error("Failed to initialize ObjectHandler");
00135
00136
00137
              qDebug() « "ObjectHandler Object initialized";
00138
00139
              return objectHandler;
00140
         }
00141
00142
          QSharedPointer<AposFrontend::WindowHandler>
00143
          initializeWindowHandler(const QSharedPointer<AposBackend::ObjectHandler>& objectHandler) {
             if (objectHandler == nullptr) {
    throw std::runtime_error("ObjectHandler pointer is null");
00144
00145
00146
             }
00148
              QSharedPointer<AposFrontend::WindowHandler> windowHandler(new
     AposFrontend::WindowHandler(objectHandler));
00149
             windowHandler->showLaunchWindow();
              qDebug() « "After DevWindow Show";
00150
00151
00152
              return windowHandler;
00153
         }
00154 }
00155 // End of file main.cpp
00156 // Doxygen-Groups
00157
```

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