Rodoc

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Index

Rodoc

This is the main page for documentation of the program Rodoc.

The code is separated mainly into two parts:

- 1. Core
- 2. Graphics

Core is for working with the family tree and also for parsing files.

Graphics is just the graphical interface of the application.

This application uses Jsoncpp library, Qt graphics library with version 6.

Database is a group of json files and directories. It follows this predefined structure (# is for a comment):

```
[rootDir]  # Chosen by the user.
    Persons.json  # All persons.
    Config.json  # Configuration and templates.
    Events.json  # Events.
    Relations.json  # Relations
    Files.json  # Files metadata.
    Media.json  # Media metadata.
    Notes.json  # Notes metadata.
    Media  # Directory for media.
    [files]
    Notes  # Directory for notes.
    [file]
    Files  # Directory for other files.
    [files]
```

Also Files, Notes and Media are internally implemented the same way. The main difference is for the end user.

2 Rodoc

icons

Převzaté z link.

Hlavní stránka je tady.

4 icons

Events

Event entity allows to describe a particular event and associate it with the following pieces of information:

- Date (e.g., 20. 7. 2023)
- Place (e.g., Prague, Czech Republic)
- · List of an arbitrary number of persons acting as participants

In order to make the concept of events more generic and not limit ourselves to certain hard-wired event types only, each event is derived from a particular **event template**.

3.1 Event Templates

Each template has the following characteristics:

- Title (e.g., Wedding)
- Description (e.g., A social event mainly between soon to be wife and husband.)
- Flag activating a date (e.g., enabled)
- Flag activating a place (e.g., disabled)
- Arbitrary number of roles allowing to distinguish individual participating persons (e.g., groom, bride, ...)
- Flag allowing additional participating persons without any roles assigned

3.2 Predefined Templates

Event templates must be created first before they can be used. While it is possible to introduce specific user-defined templates, several widely used templates were already predefined and are available for import:

- Wedding
- Divorce
- Funeral
- Graduation

6 Events

Files, Notes & Media

Each person can have an unlimited number of **files**, **media**, and **notes**. To organize files easily, every **person** has a separate virtual directory for each file type. When a file is already added to the database, it can be **shared** among other persons without making **duplicates**.

4.1 Virtual Directories

Every virtual directory can be organized individually, just like in every file manager.

- Renaming a file or a directory. When renaming a file, it will be renamed for all persons, but the names of directories are not shared
- · Deleting a file or a directory
- · Creating a new directory
- · Adding new files

Keep in mind that all the files need to be in a directory, thus there is always the **root** directory that cannot be deleted, but it can be renamed.

4.2 Adding Files

We have three options for adding files:

- 1. Choosing a file that is already in the database
- 2. Making a copy of an already existing file from a computer
- 3. Creating a completely new and empty file

To keep the project internally consistent and clean, files are **permanently removed** upon saving the project if it happens that no **person** has access to them.

8 Files, Notes & Media

Welcome to rodoc

This is a brief introduction to this application for organizing family trees. Each **family tree** is saved and organized in a **project**.

5.1 Project

Each **project** is stored in a specific directory on a filesystem, assuming that the entire subtree of the project root directory should not be used for different purposes.

Various kinds of entities can be used throughout the project to express all the intended information related not just to persons and their relations.

5.2 Persons

Each family tree primarily contains a list of **persons**, each having basic information about themselves, such as a **name**, **surname**, etc. Each person can also have multiple user-defined **tags**.

5.3 Relations

To bind two particular **persons** together, we use the concept of a **relation** to record their real-world interconnection.

5.4 Events

Persons may also attend various types of events, such as weddings, allowing these to be associated with a **place**, **date**, as well as allowing the persons to participate in specific roles.

5.5 Files

Finally, each **person** can have an unlimited number of physical files of arbitrary types, logically divided into three groups of **files**, **media**, and **notes**.

10 Welcome to rodoc

Layout

The main window has its menu and two separate panels.

6.1 Menu

The menu is for using the app functions.

- · Changing the settings
- · Saving and opening projects
- · Editing templates
- · Making exports
- · Importing data

6.2 Panels

The left panel displays the information regarding the active person or so-called **proband**, while the right panel serves for the **family tree** visualization.

6.2.1 Left Panel

The left panel contains the name of the **proband** at the top, and next to that options to create a new person or delete the current one. Under that, there are several tabs:

- · General serves for changing the default proband information and tags
- Tabs relations, events, files, media, and notes permits organizing the same-named entities

6.2.2 Right Panel

The right panel is also internally organized into three tabs where every view is interactive.

- 1. Project overview is a list of all entities, which can be filtered.
- 2. **Close family** is a diagram of all persons in relation to the **proband**. These persons are separated into three generations.
- 3. **Tree view** is a diagram of the **family tree** showing the so-called *hourglass* shape diagram. The number of generations shown can be configured, it is also possible to zoom in and out the view.

12 Layout

Person

Each **person** has a set of values that can be edited:

- Titles before and after a full name (e.g., M.Sc. or Ph.D.)
- Name (e.g., *John*)
- Surname (e.g., Swanson)
- Birthname (e.g., Smith)
- Gender (e.g., Male)
- Date of birth (e.g., 23. 2. 2000)
- Place of birth (e.g., Prague)
- · Flag for an alive person, otherwise a date and place of death

7.1 Dates

Every date value can actually be:

- Unknown as a special value for missing information
- Just a single date (e.g., 23. 2. 2000)
- Range of two dates (e.g., From: 23. 2. 2000 to: 25. 2. 2000)

Each date can also be associated with an optional **note** allowing to hold any information intended.

7.2 Tags

Tag is a pair of a **name** and its **value**. Each person can be associated with an arbitrary number of such tags. However, they need to be unique. Whenever a new tag name is used for the first time, it becomes globally available within the entire project.

14 Person

Relations

Relation entity allows to bind two particular persons together to represent their real-world relationship. Each relation has these two pieces of information:

- First person (e.g., John Swanson)
- Second person (e.g., Roy Swanson)

In order not to be restrained by a hard-wired list of permitted relations, the concept of a **relation template** was introduced.

8.1 Relation Templates

Each template has the following characteristics:

- Title (e.g., Fatherhood)
- Description (e.g., Relation between a father and a child)
- · Name of the first person (e.g., father)
- Name of the second person (e.g., child)
- Generation difference (e.g., -1)
- Trait (e.g., Fatherhood)

8.1.1 Generation Difference

Generation difference describes which person is older and which one is younger. Any number can be possibly provided, but only **-1**, **0**, and **1** usually make sense.

- -1 means that the first person is older,
- ${\bf 0}$ means that both persons are in the same generation
- 1 means that the first person is younger.

16 Relations

8.1.2 Trait

Trait determines how a particular **relation** is intended to be interpretted. The given list of possibilities shadows the real world.

- No special trait (e.g., Uncle-Nephew)
- Motherhood (e.g., Mother-Daughter)
- Fatherhood (e.g., Father-Son)
- Partnership (e.g., Marriage)
- Sibling (e.g., Brother-Sister)

8.1.3 Predefined Templates

Relation templates must be created first before they can be used. While it is possible to introduce specific userdefined templates, several widely used templates were already predefined and are available for import:

- Fatherhood
- Motherhood
- · Adoptive motherhood
- · Adoptive fatherhood
- · Partnership
- Marriage
- Brotherhood
- Sisterhood
- Siblings

8.2 Promotion

When a **person** has several **relations** of the same and supported **trait** (e.g., *Father*, *Mother*, *Partner*, ...), one of them can be declared as **promoted**, i.e., considered as the main one.

8.3 Suggestions

After a new **relation** is created, several **suggestions** for additional plausible relations that can be inferred are automatically offered in order to smooth the entire process.

- Partnership relation -> share children between both of them
- Sibling relation -> share parents
- Parent relation -> children are bound as siblings, partners as parents, and vice versa

Namespace Index

9.1 Namespace List

Here is a list of all namespaces with brief descriptions:

addfile		
button	Namespace for strings shown in add file dialog	25
	Namespace for general texts on buttons	25
error	Namespace for errors and exceptions messages	26
events	Namespace for strings for default events	28
gender		
html	Namespace for constants with gender enumeration	31
	Namespace for html tags and everything with html	32
jsonlabel		37
parser	Namespace for all strings representing files and directories in the database	50
person	Nameanage for strings related to a person	5 0
relation	Namespace for strings related to a person	52
tagchoos		53
_	Namespace for strings shown in tag chooser dialog	59
trait	Namespace for everything with relation traits	59
Ui		
	Namespace for classes having all its user interface items	bU

18 Namespace Index

Hierarchical Index

10.1 Class Hierarchy

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

AppSettings
Color
Date
Event 8
EventTemplate
FamilyTree
File
Parser
Person
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Namespace Documentation

13.1 addfile Namespace Reference

Namespace for strings shown in add file dialog.

Variables

const std::string NONE = "None"
 String for no extension.

13.1.1 Detailed Description

Namespace for strings shown in add file dialog.

13.1.2 Variable Documentation

13.1.2.1 NONE

```
const std::string addfile::NONE = "None"
```

String for no extension.

13.2 button Namespace Reference

Namespace for general texts on buttons.

Variables

```
    const std::string ADD_NEW = "Add new"
    Text for adding new element.
```

• const std::string CANCEL = "Cancel"

Text for cancelling.

 const std::string REMOVE = "Remove" text for removing element.

13.2.1 Detailed Description

Namespace for general texts on buttons.

13.2.2 Variable Documentation

13.2.2.1 ADD_NEW

```
const std::string button::ADD_NEW = "Add new"
```

Text for adding new element.

13.2.2.2 CANCEL

```
const std::string button::CANCEL = "Cancel"
```

Text for cancelling.

13.2.2.3 REMOVE

```
const std::string button::REMOVE = "Remove"
```

text for removing element.

13.3 error Namespace Reference

Namespace for errors and exceptions messages.

Variables

• const std::string UNKNOWN_EXCEP_STR = "Unknown exception catch."

String for catching unknown exception.

const std::string EXCEPTION STR = "Exception:"

String for adding before exception description.

const std::string CORRUPTED_DATABASE = "Given database is corrupted:"

String shown when database is corrupted.

• const std::string EMPTY_BOXES = "All boxes must not be empty."

String for showing that some boxes were left empty.

• const std::string NO_CHOSEN_FILE = "No file was chosen."

No file chosen and empty box.

- const std::string NO_ROLE = "Given role 'no role' cannot be used. It would be considered as no special role."

 When person tries to add "no role" role, which is allocated for no roles.
- const std::string FORBIDDEN_CHARS = "Text cannot contain forbidden characters. < > \""

 When in any box where inserted forbidden characters.

13.3.1 Detailed Description

Namespace for errors and exceptions messages.

13.3.2 Variable Documentation

13.3.2.1 CORRUPTED_DATABASE

```
const std::string error::CORRUPTED_DATABASE = "Given database is corrupted: '
```

String shown when database is corrupted.

13.3.2.2 **EMPTY_BOXES**

```
const std::string error::EMPTY_BOXES = "All boxes must not be empty."
```

String for showing that some boxes were left empty.

13.3.2.3 EXCEPTION STR

```
const std::string error::EXCEPTION_STR = "Exception: "
```

String for adding before exception description.

13.3.2.4 FORBIDDEN_CHARS

```
const std::string error::FORBIDDEN_CHARS = "Text cannot contain forbidden characters. < &gt; \ \""
```

When in any box where inserted forbidden characters.

13.3.2.5 NO_CHOSEN_FILE

```
const std::string error::NO_CHOSEN_FILE = "No file was chosen."
```

No file chosen and empty box.

13.3.2.6 NO ROLE

```
const std::string error::NO_ROLE = "Given role 'no role' cannot be used. It would be considered
as no special role."
```

When person tries to add "no role" role, which is allocated for no roles.

13.3.2.7 UNKNOWN_EXCEP_STR

```
const std::string error::UNKNOWN_EXCEP_STR = "Unknown exception catch."
```

String for catching unknown exception.

13.4 events Namespace Reference

Namespace for strings for default events.

Variables

• const std::string WEDDING = "Wedding"

String for wedding.

• const std::string DESC_WEDDING = "A social event mainly between soon to be wife and husband."

String for description of wedding.

const std::string GROOM = "Groom"

String for groom.

const std::string BRIDE = "Bride"

String for bride.

const std::string BEST_MAN = "Best man"

String for best man.

const std::string MAID_OF_HONOR = "Maid of Honor"

String for maid of honor.

• const std::string DIVORCE = "Divorce"

String for divorce.

• const std::string DESC_DIVORCE = "Divorce is the process of terminating a marriage or marital union."

String for divorce description.

• const std::string FORMER HUSBAND = "Former husband"

String for former husband.

const std::string FORMER_WIFE = "Former wife"

String for former wife.

• const std::string FUNERAL = "Funeral"

String for funeral.

• const std::string DESC_FUNERAL = "A funeral is a ceremony connected with the final disposition of a corpse, such as a burial or cremation, with the attendant observances."

String for funeral description.

const std::string DEAD_PERSON = "Dead person"

String for dead person.

• const std::string GRADUATION = "Graduation"

String for graduation.

const std::string DESC_GRADUATION = "Graduation is the awarding of a diploma to a student by an educational institution."

String for graduation description.

• const std::string GRADUATE = "Graduate"

String for graduate.

const std::string NO_ROLE = "no role"

String for no role in event.

13.4.1 Detailed Description

Namespace for strings for default events.

13.4.2 Variable Documentation

13.4.2.1 BEST MAN

```
const std::string events::BEST_MAN = "Best man"
```

String for best man.

13.4.2.2 BRIDE

```
const std::string events::BRIDE = "Bride"
```

String for bride.

13.4.2.3 DEAD_PERSON

```
const std::string events::DEAD_PERSON = "Dead person"
```

String for dead person.

13.4.2.4 DESC_DIVORCE

const std::string events::DESC_DIVORCE = "Divorce is the process of terminating a marriage or marital union."

String for divorce description.

13.4.2.5 DESC_FUNERAL

const std::string events::DESC_FUNERAL = "A funeral is a ceremony connected with the final
disposition of a corpse, such as a burial or cremation, with the attendant observances."

String for funeral description.

13.4.2.6 DESC_GRADUATION

const std::string events::DESC_GRADUATION = "Graduation is the awarding of a diploma to a student by an educational institution."

String for graduation description.

13.4.2.7 DESC_WEDDING

const std::string events::DESC_WEDDING = "A social event mainly between soon to be wife and
husband."

String for description of wedding.

13.4.2.8 DIVORCE

const std::string events::DIVORCE = "Divorce"

String for divorce.

13.4.2.9 FORMER_HUSBAND

const std::string events::FORMER_HUSBAND = "Former husband"

String for former husband.

13.4.2.10 FORMER_WIFE

const std::string events::FORMER_WIFE = "Former wife"

String for former wife.

13.4.2.11 FUNERAL

const std::string events::FUNERAL = "Funeral"

String for funeral.

13.4.2.12 GRADUATE

const std::string events::GRADUATE = "Graduate"

String for graduate.

13.4.2.13 GRADUATION

```
const std::string events::GRADUATION = "Graduation"
```

String for graduation.

13.4.2.14 GROOM

```
const std::string events::GROOM = "Groom"
```

String for groom.

13.4.2.15 MAID_OF_HONOR

```
const std::string events::MAID_OF_HONOR = "Maid of Honor"
```

String for maid of honor.

13.4.2.16 NO_ROLE

```
const std::string events::NO_ROLE = "no role"
```

String for no role in event.

13.4.2.17 WEDDING

```
const std::string events::WEDDING = "Wedding"
```

String for wedding.

13.5 gender Namespace Reference

Namespace for constants with gender enumeration.

Functions

• std::string str (Gender g)

Variables

constexpr Gender AllGenders [] = {Other, Male, Female}
 All genders in a list.

13.5.1 Detailed Description

Namespace for constants with gender enumeration.

13.5.2 Function Documentation

13.5.2.1 str()

Write the gender as a string.

Parameters

```
g Given Gender.
```

Returns

Newly constructed string representing the gender.

13.5.3 Variable Documentation

13.5.3.1 AllGenders

All genders in a list.

```
constexpr Gender gender::AllGenders[] = {Other, Male, Female} [constexpr]
```

13.6 html Namespace Reference

Namespace for html tags and everything with html.

Variables

- const std::string RESOURCES = "resources"
 Where will resources be saved.
 const std::string PREFIX_CLOSE = "/close-"
 Prefix for close family diagram.
- const std::string PREFIX_FAMILY_TREE = "/tree-"

```
Prefix for family tree diagram.
const std::string CUSTOM_CSS = "styles.css"
     Custom CSS file name.

    const std::string GENERAL_INFO = "General information"

     General information.
• const std::string BIRTH_DATE = "Birth date: "
     Birth date.
• const std::string BIRTH PLACE = "Birth place: "
     Birth place.
• const std::string DEATH_DATE = "Date of death: "
     Date of death.

    const std::string DEATH_PLACE = "Place of death:"

     Place of death.
• const std::string GENDER = "Gender: "
     Gender.

    const std::string CUSTOM_TAGS = "Custom tags:"

     Custom tags.

    const std::string DESCRIPTION = "Description:"

     Description.
const std::string NOTE = "Note:"
     Note.
• const std::string DATE = "Date: "
const std::string PLACE = "Place: "
     Place.
• const std::string PERSONS = "Persons:"
• const std::string ALL_PERSONS = "All persons"
     All persons.
• const std::string EVENTS = "Events"
• const std::string FAMILY_TREE = "Family tree"
     Family tree.
• const std::string FAMILY_TREE_DIAGRAM = "Family tree diagram"
     Family tree diagram.
• const std::string RELATIONS = "Relations"
     Relations.

    const std::string CLOSE_FAMILY = "Close family"

     Close family.
• const std::string CLOSE_FAMILY_DIAGRAM = "Close family diagram"
     Close family diagram.
```

13.6.1 Detailed Description

Namespace for html tags and everything with html.

13.6.2 Variable Documentation

13.6.2.1 ALL PERSONS

```
const std::string html::ALL_PERSONS = "All persons"
```

All persons.

13.6.2.2 BIRTH_DATE

```
const std::string html::BIRTH_DATE = "Birth date: "
```

Birth date.

13.6.2.3 BIRTH PLACE

```
const std::string html::BIRTH_PLACE = "Birth place: "
```

Birth place.

13.6.2.4 CLOSE_FAMILY

```
const std::string html::CLOSE_FAMILY = "Close family"
```

Close family.

13.6.2.5 CLOSE_FAMILY_DIAGRAM

```
const std::string html::CLOSE_FAMILY_DIAGRAM = "Close family diagram"
```

Close family diagram.

13.6.2.6 CUSTOM_CSS

```
const std::string html::CUSTOM_CSS = "styles.css"
```

Custom CSS file name.

13.6.2.7 CUSTOM_TAGS

```
const std::string html::CUSTOM_TAGS = "Custom tags:"
```

Custom tags.

13.6.2.8 DATE

```
const std::string html::DATE = "Date: "
```

Date.

13.6.2.9 **DEATH_DATE**

```
const std::string html::DEATH_DATE = "Date of death: "
```

Date of death.

13.6.2.10 **DEATH_PLACE**

```
const std::string html::DEATH_PLACE = "Place of death: "
```

Place of death.

13.6.2.11 **DESCRIPTION**

```
const std::string html::DESCRIPTION = "Description:"
```

Description.

13.6.2.12 EVENTS

```
const std::string html::EVENTS = "Events"
```

Events.

13.6.2.13 **FAMILY_TREE**

```
const std::string html::FAMILY_TREE = "Family tree"
```

Family tree.

13.6.2.14 FAMILY_TREE_DIAGRAM

```
const std::string html::FAMILY_TREE_DIAGRAM = "Family tree diagram"
```

Family tree diagram.

13.6.2.15 GENDER

```
const std::string html::GENDER = "Gender: "
```

Gender.

13.6.2.16 **GENERAL_INFO**

const std::string html::GENERAL_INFO = "General information"

General information.

13.6.2.17 NOTE

```
const std::string html::NOTE = "Note:"
```

Note.

13.6.2.18 PERSONS

```
const std::string html::PERSONS = "Persons:"
```

Persons.

13.6.2.19 PLACE

```
const std::string html::PLACE = "Place: "
```

Place.

13.6.2.20 PREFIX_CLOSE

```
const std::string html::PREFIX_CLOSE = "/close-"
```

Prefix for close family diagram.

13.6.2.21 PREFIX_FAMILY_TREE

```
const std::string html::PREFIX_FAMILY_TREE = "/tree-"
```

Prefix for family tree diagram.

13.6.2.22 RELATIONS

```
const std::string html::RELATIONS = "Relations"
```

Relations.

13.6.2.23 RESOURCES

```
const std::string html::RESOURCES = "resources"
```

Where will resources be saved.

13.7 jsonlabel Namespace Reference

Namespace for all JSON labels.

Variables

```
    const std::string TITLE = "title"

     JSON Label for title.
• const std::string ID = "id"
     JSON Label for id.

    const std::string DESCRIPTION = "description"

     JSON Label for description.
• const std::string CONTAINS_DATE = "contains date"
     JSON Label for if the event contains a date or not.

    const std::string MORE_PEOPLE = "more people"

     JSON Label for if the event contains more people.
• const std::string SPECIAL_ROLES = "special roles"
     JSON Label for if the event has special roles.
const std::string NAME = "name"
     JSON Label for name.

    const std::string FIRST NAME = "first name"

     JSON Label for first name.
• const std::string SECOND_NAME = "second name"
     JSON Label for second name.
• const std::string TRAIT = "trait"
     JSON Label for trait.

    const std::string GEN_DIFF = "generation difference"

     JSON Label for generation difference.
• const std::string REL TEMPL = "relation templates"
     JSON Label for relations templates.

    const std::string EVE_TEMPL = "event templates"

     JSON Label for event templates.

    const std::string TYPE = "type"

     JSON Label for type.

    const std::string DATE = "date"

     JSON Label for date.
• const std::string LAST_DATE = "last date"
     JSON Label for last date.

    const std::string TEXT = "text"

     JSON Label for text.
• const std::string TAGS = "tags"
     JSON Label for tags.

    const std::string TAG = "tag"

     JSON Label for single tag.
const std::string RELATIONS = "relations"
     JSON Label for relations.
const std::string EVENTS = "events"
     JSON Label for events.
• const std::string SURNAME = "surname"
```

JSON Label for surname.

```
const std::string MAIDEN_NAME = "maiden name"
     JSON Label for maiden name.
• const std::string VALUE = "value"
     JSON Label for value.

    const std::string BIRTH = "birth"

     JSON Label for birth.
• const std::string DEATH = "death"
     JSON Label for death.

    const std::string VIRTUAL_DRIVE = "virtual drive"

     JSON Label for virtual drive.

    const std::string MEDIA = "media"

     JSON Label for media.

    const std::string NOTES = "notes"

     JSON Label for notes.

    const std::string FILES = "files"

     JSON Label for files.
const std::string PERSONS = "persons"
     JSON Label for persons.
• const std::string TEMPLATE = "template"
     JSON Label for for template.
const std::string TEMPLATES = "templates"
     JSON Label for for templates.
const std::string FIRST_PERSON = "first person"
     JSON Label for first person.
• const std::string SECOND_PERSON = "second person"
     JSON Label for second person.

    const std::string PLACE = "place"

     JSON Label for place.
• const std::string ROLE = "role"
     JSON Label for role.
const std::string PERSON = "person"
     JSON Label for person.
const std::string GENDER = "gender"
     JSON Label for gender.
const std::string LIVES = "lives"
     JSON Label for if the person lives or not.
• const std::string FRONT TITLE = "title in front"
     JSON Label for title in front of a name.

    const std::string AFTER_TITLE = "title after"

     JSON Label for title after the name.
const std::string FATHER = "father"
     JSON Label for father.
const std::string MOTHER = "mother"
     JSON Label for mother.

    const std::string PARTNER = "partner"

     JSON Label for partner.

    const std::string MOVEABLE_TABS = "moveable tabs"

     JSON Label for setting moveable tabs.

    const std::string TAB POSITION = "tab position"

     JSON Label for tab position.

    const std::string GLOBAL_MAIN_PERSON = "global main person"
```

```
JSON Label for global main person.

    const std::string CONTAINS_PLACE = "contains place"

     JSON Label if an event template contains a place.
• const std::string SHOW GENERAL TAB = "show general tab"
     JSON Label for app settings if general tab should be visible.

    const std::string SHOW EVENT TAB = "show event tab"

     JSON Label for app settings if event tab should be visible.
• const std::string SHOW FILE TAB = "show file tab"
     JSON Label for app settings if file tab should be visible.

    const std::string SHOW_MEDIA_TAB = "show media tab"

     JSON Label for app settings if media tab should be visible.
• const std::string SHOW_NOTE_TAB = "show note tab"
     JSON Label for app settings if note tab should be visible.
• const std::string SHOW_RELATION_TAB = "show relation tab"
     JSON Label for app settings if relation tab should be visible.

    const std::string APP SETTINGS = "app settings"

     JSON Label for app settings.
• const std::string DRIVES = "drives"
     JSON Label for drives.
const std::string EXPORT = "export"
     JSON Label for export.
const std::string RED = "red"
     JSON Label for red.
• const std::string BLUE = "blue"
     JSON Label for blue.
• const std::string GREEN = "green"
     JSON Label for green.

    const std::string FONT_FAMILY = "font family"

     JSON Label for font family.
• const std::string FONT SIZE = "font size"
     JSON Label for font size.

    const std::string HIGHLIGHTED_COLOR = "highlighted color"

     JSON Label highlighted color.

    const std::string PROBANT COLOR = "proband color"

     JSON Label for proband color.

    const std::string PROMOTED_COLOR = "promoted color"

     JSON Label promoted color.
• const std::string STANDARD COLOR = "standard color"
     JSON Label standard color.

    const std::string X SIZE = "x size"

     JSON Label for size in the x axis.

    const std::string Y SIZE = "y size"

     JSON Label for size in the y axis.

    const std::string GEN_SIZE_UP = "number of generations up"

     JSON Label for how many generations are being shown upwards.

    const std::string GEN_SIZE_DOWN = "number of generations down"

     JSON Label for how many generations are being shown downwards.

    const std::string DIR = "dir"

     JSON Label for directory.
```

const std::string ROOT = "root"
 JSON Label for root.

• const std::string HELP = "help"

JSON Label for help.

• const std::string SPLITTER_POSITION_ONE = "splitter position one"

JSON Label for splitter position one.

• const std::string SPLITTER_POSITION_TWO = "splitter position two"

JSON Label for splitter position two.

• const std::string TEXT_COLOR = "text color"

JSON Label for the color of text.

• const std::string LINE_COLOR = "line color"

JSON Label for the line color.

• const std::string LINE_WIDTH = "line width"

JSON Label for line width.

• const std::string BORDER_RADIUS = "radius"

JSON Label border radius.

13.7.1 Detailed Description

Namespace for all JSON labels.

13.7.2 Variable Documentation

13.7.2.1 AFTER_TITLE

```
const std::string jsonlabel::AFTER_TITLE = "title after"
```

JSON Label for title after the name.

13.7.2.2 APP_SETTINGS

```
const std::string jsonlabel::APP_SETTINGS = "app settings"
```

JSON Label for app settings.

13.7.2.3 BIRTH

```
const std::string jsonlabel::BIRTH = "birth"
```

JSON Label for birth.

13.7.2.4 BLUE

```
const std::string jsonlabel::BLUE = "blue"
```

JSON Label for blue.

13.7.2.5 BORDER_RADIUS

```
const std::string jsonlabel::BORDER_RADIUS = "radius"
```

JSON Label border radius.

13.7.2.6 CONTAINS_DATE

```
const std::string jsonlabel::CONTAINS_DATE = "contains date"
```

JSON Label for if the event contains a date or not.

13.7.2.7 CONTAINS_PLACE

```
const std::string jsonlabel::CONTAINS_PLACE = "contains place"
```

JSON Label if an event template contains a place.

13.7.2.8 DATE

```
const std::string jsonlabel::DATE = "date"
```

JSON Label for date.

13.7.2.9 **DEATH**

```
const std::string jsonlabel::DEATH = "death"
```

JSON Label for death.

13.7.2.10 DESCRIPTION

```
const std::string jsonlabel::DESCRIPTION = "description"
```

JSON Label for description.

13.7.2.11 DIR

```
const std::string jsonlabel::DIR = "dir"
```

JSON Label for directory.

13.7.2.12 DRIVES

```
const std::string jsonlabel::DRIVES = "drives"
```

JSON Label for drives.

13.7.2.13 EVE_TEMPL

```
const std::string jsonlabel::EVE_TEMPL = "event templates"
```

JSON Label for event templates.

13.7.2.14 EVENTS

```
const std::string jsonlabel::EVENTS = "events"
```

JSON Label for events.

13.7.2.15 EXPORT

```
const std::string jsonlabel::EXPORT = "export"
```

JSON Label for export.

13.7.2.16 FATHER

```
const std::string jsonlabel::FATHER = "father"
```

JSON Label for father.

13.7.2.17 FILES

```
const std::string jsonlabel::FILES = "files"
```

JSON Label for files.

13.7.2.18 FIRST_NAME

```
const std::string jsonlabel::FIRST_NAME = "first name"
```

JSON Label for first name.

13.7.2.19 FIRST_PERSON

```
const std::string jsonlabel::FIRST_PERSON = "first person"
```

JSON Label for first person.

13.7.2.20 FONT_FAMILY

```
const std::string jsonlabel::FONT_FAMILY = "font family"
```

JSON Label for font family.

13.7.2.21 FONT_SIZE

```
const std::string jsonlabel::FONT_SIZE = "font size"
```

JSON Label for font size.

13.7.2.22 FRONT_TITLE

```
const std::string jsonlabel::FRONT_TITLE = "title in front"
```

JSON Label for title in front of a name.

13.7.2.23 GEN DIFF

```
const std::string jsonlabel::GEN_DIFF = "generation difference"
```

JSON Label for generation difference.

13.7.2.24 GEN_SIZE_DOWN

```
const std::string jsonlabel::GEN_SIZE_DOWN = "number of generations down"
```

JSON Label for how many generations are being shown downwards.

13.7.2.25 GEN_SIZE_UP

```
const std::string jsonlabel::GEN_SIZE_UP = "number of generations up"
```

JSON Label for how many generations are being shown upwards.

13.7.2.26 GENDER

```
const std::string jsonlabel::GENDER = "gender"
```

JSON Label for gender.

13.7.2.27 GLOBAL_MAIN_PERSON

```
const std::string jsonlabel::GLOBAL_MAIN_PERSON = "global main person"
```

JSON Label for global main person.

13.7.2.28 GREEN

```
const std::string jsonlabel::GREEN = "green"
```

JSON Label for green.

13.7.2.29 HELP

```
const std::string jsonlabel::HELP = "help"
```

JSON Label for help.

13.7.2.30 HIGHLIGHTED_COLOR

```
const std::string jsonlabel::HIGHLIGHTED_COLOR = "highlighted color"
```

JSON Label highlighted color.

13.7.2.31 ID

```
const std::string jsonlabel::ID = "id"
```

JSON Label for id.

13.7.2.32 LAST_DATE

```
const std::string jsonlabel::LAST_DATE = "last date"
```

JSON Label for last date.

13.7.2.33 LINE_COLOR

```
const std::string jsonlabel::LINE_COLOR = "line color"
```

JSON Label for the line color.

13.7.2.34 LINE WIDTH

```
const std::string jsonlabel::LINE_WIDTH = "line width"
```

JSON Label for line width.

13.7.2.35 LIVES

```
const std::string jsonlabel::LIVES = "lives"
```

JSON Label for if the person lives or not.

13.7.2.36 MAIDEN_NAME

```
const std::string jsonlabel::MAIDEN_NAME = "maiden name"
```

JSON Label for maiden name.

13.7.2.37 MEDIA

```
const std::string jsonlabel::MEDIA = "media"
```

JSON Label for media.

13.7.2.38 MORE_PEOPLE

```
const std::string jsonlabel::MORE_PEOPLE = "more people"
```

JSON Label for if the event contains more people.

13.7.2.39 MOTHER

```
const std::string jsonlabel::MOTHER = "mother"
```

JSON Label for mother.

13.7.2.40 MOVEABLE_TABS

```
const std::string jsonlabel::MOVEABLE_TABS = "moveable tabs"
```

JSON Label for setting moveable tabs.

13.7.2.41 NAME

```
const std::string jsonlabel::NAME = "name"
```

JSON Label for name.

13.7.2.42 NOTES

```
const std::string jsonlabel::NOTES = "notes"
```

JSON Label for notes.

13.7.2.43 PARTNER

```
const std::string jsonlabel::PARTNER = "partner"
```

JSON Label for partner.

13.7.2.44 PERSON

```
const std::string jsonlabel::PERSON = "person"
```

JSON Label for person.

13.7.2.45 PERSONS

```
const std::string jsonlabel::PERSONS = "persons"
```

JSON Label for persons.

13.7.2.46 PLACE

```
const std::string jsonlabel::PLACE = "place"
```

JSON Label for place.

13.7.2.47 PROBANT_COLOR

```
const std::string jsonlabel::PROBANT_COLOR = "proband color"
```

JSON Label for proband color.

13.7.2.48 PROMOTED_COLOR

```
const std::string jsonlabel::PROMOTED_COLOR = "promoted color"
```

JSON Label promoted color.

13.7.2.49 RED

```
const std::string jsonlabel::RED = "red"
```

JSON Label for red.

13.7.2.50 REL_TEMPL

```
const std::string jsonlabel::REL_TEMPL = "relation templates"
```

JSON Label for relations templates.

13.7.2.51 RELATIONS

```
const std::string jsonlabel::RELATIONS = "relations"
```

JSON Label for relations.

13.7.2.52 ROLE

```
const std::string jsonlabel::ROLE = "role"
```

JSON Label for role.

13.7.2.53 ROOT

```
const std::string jsonlabel::ROOT = "root"
```

JSON Label for root.

13.7.2.54 SECOND_NAME

```
const std::string jsonlabel::SECOND_NAME = "second name"
```

JSON Label for second name.

13.7.2.55 SECOND_PERSON

```
const std::string jsonlabel::SECOND_PERSON = "second person"
```

JSON Label for second person.

13.7.2.56 SHOW_EVENT_TAB

```
const std::string jsonlabel::SHOW_EVENT_TAB = "show event tab"
```

JSON Label for app settings if event tab should be visible.

13.7.2.57 SHOW_FILE_TAB

```
const std::string jsonlabel::SHOW_FILE_TAB = "show file tab"
```

JSON Label for app settings if file tab should be visible.

13.7.2.58 SHOW_GENERAL_TAB

```
const std::string jsonlabel::SHOW_GENERAL_TAB = "show general tab"
```

JSON Label for app settings if general tab should be visible.

13.7.2.59 SHOW_MEDIA_TAB

```
const std::string jsonlabel::SHOW_MEDIA_TAB = "show media tab"
```

JSON Label for app settings if media tab should be visible.

13.7.2.60 SHOW_NOTE_TAB

```
const std::string jsonlabel::SHOW_NOTE_TAB = "show note tab"
```

JSON Label for app settings if note tab should be visible.

13.7.2.61 SHOW_RELATION_TAB

```
const std::string jsonlabel::SHOW_RELATION_TAB = "show relation tab"
```

JSON Label for app settings if relation tab should be visible.

13.7.2.62 SPECIAL_ROLES

```
const std::string jsonlabel::SPECIAL_ROLES = "special roles"
```

JSON Label for if the event has special roles.

13.7.2.63 SPLITTER_POSITION_ONE

```
const std::string jsonlabel::SPLITTER_POSITION_ONE = "splitter position one"
```

JSON Label for splitter position one.

13.7.2.64 SPLITTER_POSITION_TWO

```
const std::string jsonlabel::SPLITTER_POSITION_TWO = "splitter position two"
```

JSON Label for splitter position two.

13.7.2.65 STANDARD_COLOR

```
const std::string jsonlabel::STANDARD_COLOR = "standard color"
```

JSON Label standard color.

13.7.2.66 SURNAME

```
const std::string jsonlabel::SURNAME = "surname"
```

JSON Label for surname.

13.7.2.67 TAB_POSITION

```
const std::string jsonlabel::TAB_POSITION = "tab position"
```

JSON Label for tab position.

13.7.2.68 TAG

```
const std::string jsonlabel::TAG = "tag"
```

JSON Label for single tag.

13.7.2.69 TAGS

```
const std::string jsonlabel::TAGS = "tags"
```

JSON Label for tags.

13.7.2.70 TEMPLATE

```
const std::string jsonlabel::TEMPLATE = "template"
```

JSON Label for for template.

13.7.2.71 TEMPLATES

```
const std::string jsonlabel::TEMPLATES = "templates"
```

JSON Label for for templates.

13.7.2.72 TEXT

```
const std::string jsonlabel::TEXT = "text"
```

JSON Label for text.

13.7.2.73 TEXT_COLOR

```
const std::string jsonlabel::TEXT_COLOR = "text color"
```

JSON Label for the color of text.

13.7.2.74 TITLE

```
const std::string jsonlabel::TITLE = "title"
```

JSON Label for title.

13.7.2.75 TRAIT

```
const std::string jsonlabel::TRAIT = "trait"
```

JSON Label for trait.

13.7.2.76 TYPE

```
const std::string jsonlabel::TYPE = "type"
```

JSON Label for type.

13.7.2.77 VALUE

```
const std::string jsonlabel::VALUE = "value"
JSON Label for value.
```

13.7.2.78 VIRTUAL_DRIVE

```
const std::string jsonlabel::VIRTUAL_DRIVE = "virtual drive"
JSON Label for virtual drive.
```

13.7.2.79 X SIZE

```
const std::string jsonlabel::X_SIZE = "x size"
JSON Label for size in the x axis.
```

13.7.2.80 Y_SIZE

```
const std::string jsonlabel::Y_SIZE = "y size"
JSON Label for size in the y axis.
```

13.8 parser Namespace Reference

Namespace for all strings representing files and directories in the database.

Variables

```
• const std::string FILES_DIR = "Files"
```

Directory for all documents and files in general.

• const std::string JSON_CONFIG = "Config.json"

JSON file-name for configuration and templates.

• const std::string JSON_EVENTS = "Events.json"

JSON file-name for events.

const std::string JSON_FILES = "Files.json"

JSON file-name for files meta-data.

const std::string JSON_MEDIA = "Media.json"

JSON file-name for media meta-data.

• const std::string JSON_NOTES = "Notes.json"

JSON file-name for notes meta-data.

const std::string JSON_PERSONS = "Persons.json"

JSON file-name for persons.

• const std::string JSON_RELATIONS = "Relations.json"

JSON file-name for relations.

const std::string MEDIA_DIR = "Media"

Directory for all pictures and other media.

• const std::string NOTES_DIR = "Notes"

Directory for all notes.

const std::string ERROR_LOG = ".error.log"

File for writing error log.

13.8.1 Detailed Description

Namespace for all strings representing files and directories in the database.

13.8.2 Variable Documentation

13.8.2.1 ERROR_LOG

```
const std::string parser::ERROR_LOG = ".error.log"
```

File for writing error log.

13.8.2.2 FILES DIR

```
const std::string parser::FILES_DIR = "Files"
```

Directory for all documents and files in general.

13.8.2.3 JSON_CONFIG

```
const std::string parser::JSON_CONFIG = "Config.json"
```

JSON file-name for configuration and templates.

13.8.2.4 JSON_EVENTS

```
const std::string parser::JSON_EVENTS = "Events.json"
```

JSON file-name for events.

13.8.2.5 JSON_FILES

```
const std::string parser::JSON_FILES = "Files.json"
```

JSON file-name for files meta-data.

13.8.2.6 JSON_MEDIA

```
const std::string parser::JSON_MEDIA = "Media.json"
```

JSON file-name for media meta-data.

13.8.2.7 **JSON_NOTES**

```
const std::string parser::JSON_NOTES = "Notes.json"
```

JSON file-name for notes meta-data.

13.8.2.8 JSON_PERSONS

```
const std::string parser::JSON_PERSONS = "Persons.json"
```

JSON file-name for persons.

13.8.2.9 JSON_RELATIONS

```
const std::string parser::JSON_RELATIONS = "Relations.json"
```

JSON file-name for relations.

13.8.2.10 MEDIA DIR

```
const std::string parser::MEDIA_DIR = "Media"
```

Directory for all pictures and other media.

13.8.2.11 NOTES_DIR

```
const std::string parser::NOTES_DIR = "Notes"
```

Directory for all notes.

13.9 person Namespace Reference

Namespace for strings related to a person.

Variables

- const std::string UNKNOWN_STR = "Unknown"
 - String for unknown tags.
- const std::string SURNAME_STR = "Surname"

String for default surname.

- const std::string NAME_STR = "Name"
 - String for default name.
- const std::string ROOT = "root"

String for default root directories.

- const std::string DATE_FROM = "From: "
 - String for date interval from.
- const std::string DATE_TO = " to: "

String for date interval to.

13.9.1 Detailed Description

Namespace for strings related to a person.

13.9.2 Variable Documentation

13.9.2.1 DATE_FROM

```
const std::string person::DATE_FROM = "From: "
```

String for date interval from.

13.9.2.2 DATE_TO

```
const std::string person::DATE_TO = " to: "
```

String for date interval to.

13.9.2.3 NAME_STR

```
const std::string person::NAME_STR = "Name"
```

String for default name.

13.9.2.4 ROOT

```
const std::string person::ROOT = "root"
```

String for default root directories.

13.9.2.5 SURNAME_STR

```
const std::string person::SURNAME_STR = "Surname"
```

String for default surname.

13.9.2.6 UNKNOWN_STR

```
const std::string person::UNKNOWN_STR = "Unknown"
```

String for unknown tags.

13.10 relation Namespace Reference

Namespace for strings for default relations.

Variables

const std::string FATHERHOOD = "Fatherhood"

String for Fatherhood.

• const std::string FATHERHOOD DESC = "Relation between father and his child."

String for Fatherhood description.

const std::string FATHER = "Father"

String for father.

const std::string CHILD = "Child"

String for child.

const std::string MOTHERHOOD = "Motherhood"

String for Motherhood.

const std::string MOTHERHOOD_DESC = "Relation between mother and her child."

String for Motherhood description.

const std::string MOTHER = "Mother"

String for mother.

const std::string PARTNERSHIP = "Partnership"

String for Partnership.

• const std::string PARTNERSHIP DESC = "Relation between two partners."

String for description of partnership.

const std::string PARTNER = "Partner"

String for partner.

• const std::string MARRIAGE = "Marriage"

String for Marriage.

const std::string MARRIAGE_DESC = "Bound by law between two people. Usually a man (husband) and a
woman (wife)."

String for Marriage description.

• const std::string WIFE = "Wife"

String for wife.

const std::string HUSBAND = "Husband"

String for husband.

const std::string ADOPTIVE_FATHERHOOD = "Adoptive fatherhood"

String for title for adoptive fatherhood.

const std::string DESC_ADOPTIVE_FATHERHOOD = "Fatherhood provided by adopting a child."

String for description for adoptive fatherhood.

• const std::string ADOPTIVE_FATHER = "Adoptive father"

String for adoptive father.

const std::string ADOPTED_CHILD = "Adopted child"

String for adopted child.

• const std::string ADOPTIVE_MOTHERHOOD = "Adoptive motherhood"

String for title for adoptive motherhood.

const std::string DESC_ADOPTIVE_MOTHERHOOD = "Motherhood provided by adopting a child."

String for description for adoptive motherhood.

• const std::string ADOPTIVE_MOTHER = "Adoptive mother"

String for adoptive father.

• const std::string BROTHERHHOD = "Brotherhood"

String for brotherhood.

const std::string DESC_BROTHERHOOD = "Relation between two brothers."

String for brotherhood description.

• const std::string BROTHER = "Brother"

String for brother.

const std::string SISTERHOOD = "Sisterhood"

String for sisterhood.

• const std::string DESC_SISTERHOOD = "Relation between two sisters."

String for sisterhood description.

• const std::string SISTER = "Sister"

String for sister.

• const std::string SIBLINGS = "Siblings"

String for siblings.

const std::string DESC_SIBLINGS = "Relation between brother and sister."

String for siblings description.

13.10.1 Detailed Description

Namespace for strings for default relations.

13.10.2 Variable Documentation

13.10.2.1 ADOPTED_CHILD

const std::string relation::ADOPTED_CHILD = "Adopted child"

String for adopted child.

13.10.2.2 ADOPTIVE_FATHER

const std::string relation::ADOPTIVE_FATHER = "Adoptive father"

String for adoptive father.

13.10.2.3 ADOPTIVE_FATHERHOOD

const std::string relation::ADOPTIVE_FATHERHOOD = "Adoptive fatherhood"

String for title for adoptive fatherhood.

13.10.2.4 ADOPTIVE_MOTHER

const std::string relation::ADOPTIVE_MOTHER = "Adoptive mother"

String for adoptive father.

13.10.2.5 ADOPTIVE_MOTHERHOOD

const std::string relation::ADOPTIVE_MOTHERHOOD = "Adoptive motherhood"

String for title for adoptive motherhood.

13.10.2.6 BROTHER

const std::string relation::BROTHER = "Brother"

String for brother.

13.10.2.7 BROTHERHHOD

```
const std::string relation::BROTHERHHOD = "Brotherhood"
```

String for brotherhood.

13.10.2.8 CHILD

```
const std::string relation::CHILD = "Child"
```

String for child.

13.10.2.9 DESC_ADOPTIVE_FATHERHOOD

 $\verb|const| std::string| relation::DESC_ADOPTIVE_FATHERHOOD| = "Fatherhood| provided by adopting a child."$

String for description for adoptive fatherhood.

13.10.2.10 DESC_ADOPTIVE_MOTHERHOOD

const std::string relation::DESC_ADOPTIVE_MOTHERHOOD = "Motherhood provided by adopting a
child."

String for description for adoptive motherhood.

13.10.2.11 DESC_BROTHERHOOD

```
const std::string relation::DESC_BROTHERHOOD = "Relation between two brothers."
```

String for brotherhood description.

13.10.2.12 **DESC_SIBLINGS**

```
const std::string relation::DESC_SIBLINGS = "Relation between brother and sister."
```

String for siblings description.

13.10.2.13 DESC_SISTERHOOD

const std::string relation::DESC_SISTERHOOD = "Relation between two sisters."

String for sisterhood description.

13.10.2.14 FATHER

const std::string relation::FATHER = "Father"

String for father.

13.10.2.15 FATHERHOOD

const std::string relation::FATHERHOOD = "Fatherhood"

String for Fatherhood.

13.10.2.16 FATHERHOOD_DESC

const std::string relation::FATHERHOOD_DESC = "Relation between father and his child."

String for Fatherhood description.

13.10.2.17 HUSBAND

const std::string relation::HUSBAND = "Husband"

String for husband.

13.10.2.18 MARRIAGE

const std::string relation::MARRIAGE = "Marriage"

String for Marriage.

13.10.2.19 MARRIAGE_DESC

const std::string relation::MARRIAGE_DESC = "Bound by law between two people. Usually a man (husband) and a woman (wife)."

String for Marriage description.

13.10.2.20 MOTHER

const std::string relation::MOTHER = "Mother"

String for mother.

13.10.2.21 MOTHERHOOD

const std::string relation::MOTHERHOOD = "Motherhood"

String for Motherhood.

13.10.2.22 MOTHERHOOD_DESC

const std::string relation::MOTHERHOOD_DESC = "Relation between mother and her child."

String for Motherhood description.

13.10.2.23 PARTNER

const std::string relation::PARTNER = "Partner"

String for partner.

13.10.2.24 PARTNERSHIP

const std::string relation::PARTNERSHIP = "Partnership"

String for Partnership.

13.10.2.25 PARTNERSHIP_DESC

const std::string relation::PARTNERSHIP_DESC = "Relation between two partners."

String for description of partnership.

13.10.2.26 SIBLINGS

const std::string relation::SIBLINGS = "Siblings"

String for siblings.

13.10.2.27 SISTER

const std::string relation::SISTER = "Sister"

String for sister.

13.10.2.28 SISTERHOOD

```
const std::string relation::SISTERHOOD = "Sisterhood"
```

String for sisterhood.

13.10.2.29 WIFE

```
const std::string relation::WIFE = "Wife"
```

String for wife.

13.11 tagchooser Namespace Reference

Namespace for strings shown in tag chooser dialog.

Variables

const std::string CUSTOM_TAG = "+ Custom tag"
 Last custom tag choice.

13.11.1 Detailed Description

Namespace for strings shown in tag chooser dialog.

13.11.2 Variable Documentation

13.11.2.1 CUSTOM_TAG

```
const std::string tagchooser::CUSTOM_TAG = "+ Custom tag"
```

Last custom tag choice.

13.12 trait Namespace Reference

Namespace for everything with relation traits.

Functions

• std::string str (Trait t)

Variables

constexpr Trait AllTraits [] = {None, Fatherhood, Motherhood, Partnership, Sibling}
 All possible traits.

13.12.1 Detailed Description

Namespace for everything with relation traits.

13.12.2 Function Documentation

13.12.2.1 str()

Represent trait as a string.

Parameters

t Given trait.

Returns

String representing given trait.

13.12.3 Variable Documentation

13.12.3.1 AllTraits

```
constexpr Trait trait::AllTraits[] = {None, Fatherhood, Motherhood, Partnership, Sibling}
[constexpr]
```

All possible traits.

13.13 Ui Namespace Reference

Namespace for classes having all its user interface items.

13.13.1 Detailed Description

Namespace for classes having all its user interface items.

Chapter 14

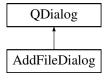
Class Documentation

14.1 AddFileDialog Class Reference

Dialog for adding file.

#include <dialogs.h>

Inheritance diagram for AddFileDialog:



Public Slots

• void copyFile ()

Open file chooser for copying file.

void createOrChooseFile ()

Create or choose file based on selected tab.

• void openFile (QTreeWidgetItem *item)

Public Member Functions

- AddFileDialog (FileType type, const std::vector< std::string > &extensions, VirtualDrive *parentDrive, FamilyTree *FT, QWidget *parent)
- \sim AddFileDialog ()

Default destructor.

Private Member Functions

• size_t getId (QTreeWidgetItem *item)

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Private Attributes

```
• FamilyTree * FT_
```

Used family tree.

VirtualDrive * drive_

Parent drive.

FileType type_

Type of the file.

• Ui::AddFileDialog * ui

User interface of the Qt framework.

14.1.1 Detailed Description

Dialog for adding file.

14.1.2 Constructor & Destructor Documentation

14.1.2.1 AddFileDialog()

Default constructor.

Parameters

type	If the file is general file, media or note.
extensions	Vector of all extensions to show.
parentDrive	Parent drive where the file will be stored.
FT	Given family tree the current app is using.
parent	The Qt Widget parent.

14.1.2.2 ~AddFileDialog()

```
AddFileDialog::~AddFileDialog ( )
```

Default destructor.

14.1.3 Member Function Documentation

14.1.3.1 copyFile

```
void AddFileDialog::copyFile ( ) [slot]
```

Open file chooser for copying file.

14.1.3.2 createOrChooseFile

```
void AddFileDialog::createOrChooseFile ( ) [slot]
```

Create or choose file based on selected tab.

14.1.3.3 getId()

Get the id from the text of the given id.

Parameters

```
item Which item has the id.
```

Returns

Id from its text.

14.1.3.4 openFile

Show file upon clicking it.

Parameters

item Which item was clicked.

14.1.4 Member Data Documentation

14.1.4.1 drive_

```
VirtualDrive* AddFileDialog::drive_ [private]
```

Parent drive.

14.1.4.2 FT_

```
FamilyTree* AddFileDialog::FT_ [private]
```

Used family tree.

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14.1.4.3 type_

```
FileType AddFileDialog::type_ [private]
```

Type of the file.

14.1.4.4 ui

```
Ui::AddFileDialog* AddFileDialog::ui [private]
```

User interface of the Qt framework.

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

- graphics/dialogs.h
- graphics/dialogs.cpp

14.2 AppSettings Struct Reference

Struct for app settings.

```
#include <config.h>
```

Public Member Functions

- void readJson (const Json::Value &value)
- void setDefault ()

Set the default options.

Public Attributes

std::string fontFamily

Used font in the graphic boxes.

• int fontSize

Size of the font used in the graphic boxes.

• int genSizeDown

Number of generations to show down.

int genSizeUp

Number of generations to show up.

· Color highlightedColor

Color for highlighted box.

Color lineColor

Color of the lines.

· int lineWidth

Width of the line.

· Color probandColor

Color for proband.

Color promoted

Color for promoted relation.

· int radius

Border radius.

bool showEventTab

If event tab should be visible.

bool showFileTab

If file tab should be visible.

· bool showGeneralTab

If general tab should be visible.

bool showMediaTab

If media tab should be visible.

bool showNoteTab

If note tab should be visible.

bool showRelationTab

If relation tab should be visible.

int sizeX

Size of the box in x axis.

· int sizeY

Size of the box in y axis.

• int splitterPositionOne

Splitter position one.

• int splitterPositionTwo

Splitter position two.

· Color standard

Standard color.

· TabPosition tabPosition

Tab position of the information tab.

· Color textColor

Color of the text.

14.2.1 Detailed Description

Struct for app settings.

14.2.2 Member Function Documentation

14.2.2.1 readJson()

Read and load data from JSON value.

Parameters

value Given JSON value.

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14.2.2.2 setDefault()

```
void AppSettings::setDefault ( )
```

Set the default options.

14.2.3 Member Data Documentation

14.2.3.1 fontFamily

```
std::string AppSettings::fontFamily
```

Used font in the graphic boxes.

14.2.3.2 fontSize

```
int AppSettings::fontSize
```

Size of the font used in the graphic boxes.

14.2.3.3 genSizeDown

```
int AppSettings::genSizeDown
```

Number of generations to show down.

14.2.3.4 genSizeUp

```
int AppSettings::genSizeUp
```

Number of generations to show up.

14.2.3.5 highlightedColor

Color AppSettings::highlightedColor

Color for highlighted box.

14.2.3.6 lineColor

Color AppSettings::lineColor

Color of the lines.

14.2.3.7 lineWidth

int AppSettings::lineWidth

Width of the line.

14.2.3.8 probandColor

Color AppSettings::probandColor

Color for proband.

14.2.3.9 promoted

Color AppSettings::promoted

Color for promoted relation.

14.2.3.10 radius

int AppSettings::radius

Border radius.

14.2.3.11 showEventTab

bool AppSettings::showEventTab

If event tab should be visible.

14.2.3.12 showFileTab

bool AppSettings::showFileTab

If file tab should be visible.

14.2.3.13 showGeneralTab

bool AppSettings::showGeneralTab

If general tab should be visible.

14.2.3.14 showMediaTab

bool AppSettings::showMediaTab

If media tab should be visible.

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14.2.3.15 showNoteTab

bool AppSettings::showNoteTab

If note tab should be visible.

14.2.3.16 showRelationTab

bool AppSettings::showRelationTab

If relation tab should be visible.

14.2.3.17 sizeX

int AppSettings::sizeX

Size of the box in x axis.

14.2.3.18 sizeY

int AppSettings::sizeY

Size of the box in y axis.

14.2.3.19 splitterPositionOne

int AppSettings::splitterPositionOne

Splitter position one.

14.2.3.20 splitterPositionTwo

int AppSettings::splitterPositionTwo

Splitter position two.

14.2.3.21 standard

Color AppSettings::standard

Standard color.

14.2.3.22 tabPosition

TabPosition AppSettings::tabPosition

Tab position of the information tab.

14.2.3.23 textColor

Color AppSettings::textColor

Color of the text.

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

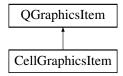
- · core/config.h
- · core/config.cpp

14.3 CellGraphicsItem Class Reference

Cell around all relations.

```
#include <graphics_items.h>
```

Inheritance diagram for CellGraphicsItem:



Public Member Functions

- CellGraphicsItem (int sizex, int sizey, greal x, greal y, QPen *pen, int borderRadius)
- QRectF boundingRect () const override
- · void paint (QPainter *painter, const QStyleOptionGraphicsItem *option, QWidget *widget) override
- QPainterPath shape () const override

Private Attributes

· int borderRadius_

Border radius.

QPen * pen_

Pointer to the used pen.

int sizex_

Size of the cell in the x axis.

• int sizey_

Size of the cell in the y axis.

• qreal x_

Top left point x position.

• qreal y_

Top left point y position.

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14.3.1 Detailed Description

Cell around all relations.

14.3.2 Constructor & Destructor Documentation

14.3.2.1 CellGraphicsItem()

```
CellGraphicsItem::CellGraphicsItem (
    int sizex,
    int sizey,
    qreal x,
    qreal y,
    QPen * pen,
    int borderRadius )
```

Default constructor.

Parameters

sizex	Size of the cell in the x axis.
sizey	Size of the cell in the y axis.
X	Top left point x position.
У	Top left point y position.
pen	Which pen is used for lines.
borderRadius	What is the radius of the border.

14.3.3 Member Function Documentation

14.3.3.1 boundingRect()

```
QRectF CellGraphicsItem::boundingRect ( ) const [override]
```

Get the bounding rectangle of the object.

Returns

Rectangle that is bounding the item.

14.3.3.2 paint()

Paint the object to its painter.

Parameters

painter	Which painter to use to paint the object.
option	Option for the Qt framework (not used).
widget	Widget for the Qt framework (not used).

14.3.3.3 shape()

QPainterPath CellGraphicsItem::shape () const [override]

Get the shape of the item.

Returns

Get the shape to paint.

14.3.4 Member Data Documentation

14.3.4.1 borderRadius_

int CellGraphicsItem::borderRadius_ [private]

Border radius.

14.3.4.2 pen_

QPen* CellGraphicsItem::pen_ [private]

Pointer to the used pen.

14.3.4.3 sizex_

int CellGraphicsItem::sizex_ [private]

Size of the cell in the x axis.

14.3.4.4 sizey_

int CellGraphicsItem::sizey_ [private]

Size of the cell in the y axis.

14.3.4.5 x_

qreal CellGraphicsItem::x_ [private]

Top left point x position.

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14.3.4.6 y_

```
qreal CellGraphicsItem::y_ [private]
```

Top left point y position.

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

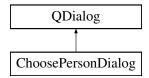
- graphics/graphics_items.h
- graphics/graphics_items.cpp

14.4 ChoosePersonDialog Class Reference

Dialog for choosing person with find window. Parent have to have slot savePerson().

```
#include <dialogs.h>
```

Inheritance diagram for ChoosePersonDialog:



Public Slots

• void clearFilter ()

Clear filter and show all persons.

• void filterPersons ()

Filter persons by the text edit.

• void saveSelectedPerson ()

Save currently selected person.

Signals

• void savePerson (Person *person)

When save can be proceeded.

Public Member Functions

- ChoosePersonDialog (FamilyTree *FT, Person *person, QWidget *parent=nullptr)
- ∼ChoosePersonDialog ()

Default destructor.

Private Attributes

```
• FamilyTree * FT_
```

Pointer to the family tree.

• Person * person_

Pointer for.

• Ui::ChoosePersonDialog * ui

User interface of the Qt framework.

14.4.1 Detailed Description

Dialog for choosing person with find window. Parent have to have slot savePerson().

14.4.2 Constructor & Destructor Documentation

14.4.2.1 ChoosePersonDialog()

```
ChoosePersonDialog::ChoosePersonDialog (
    FamilyTree * FT,
    Person * person,
    QWidget * parent = nullptr )
```

Default constructor.

Parameters

FT	Pointer to the family tree.	
person	Pointer to the person to be replaced or nullptr to choose new one.	
parent	The Qt Widget parent.	

14.4.2.2 ~ChoosePersonDialog()

```
{\tt ChoosePersonDialog::}{\sim}{\tt ChoosePersonDialog~(~)}
```

Default destructor.

14.4.3 Member Function Documentation

14.4.3.1 clearFilter

```
void ChoosePersonDialog::clearFilter ( ) [slot]
```

Clear filter and show all persons.

14.4.3.2 filterPersons

```
void ChoosePersonDialog::filterPersons ( ) [slot]
```

Filter persons by the text edit.

14.4.3.3 savePerson

When save can be proceeded.

14.4.3.4 saveSelectedPerson

```
void ChoosePersonDialog::saveSelectedPerson ( ) [slot]
```

Save currently selected person.

14.4.4 Member Data Documentation

14.4.4.1 FT_

```
FamilyTree* ChoosePersonDialog::FT_ [private]
```

Pointer to the family tree.

14.4.4.2 person_

```
Person* ChoosePersonDialog::person_ [private]
```

Pointer for.

14.4.4.3 ui

```
Ui::ChoosePersonDialog* ChoosePersonDialog::ui [private]
```

User interface of the Qt framework.

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

- graphics/dialogs.h
- graphics/dialogs.cpp

14.5 Color Struct Reference 75

14.5 Color Struct Reference

Struct for general color.

```
#include <config.h>
```

Public Member Functions

- Color (int r=255, int g=255, int b=255)
- void readJson (const Json::Value &value)

Read it from json value.

Public Attributes

int red

Red part of the color.

• int green

Green part of the color.

• int blue

Blue part of the color.

14.5.1 Detailed Description

Struct for general color.

14.5.2 Constructor & Destructor Documentation

14.5.2.1 Color()

Default constructor.

Parameters

r	Red.
g	Green.
b	Blue.

14.5.3 Member Function Documentation

14.5.3.1 readJson()

Read it from json value.

14.5.4 Member Data Documentation

14.5.4.1 blue

int Color::blue

Blue part of the color.

14.5.4.2 green

int Color::green

Green part of the color.

14.5.4.3 red

int Color::red

Red part of the color.

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

- core/config.h
- core/config.cpp

14.6 Date Class Reference

Basic date format. Holding three numbers for year, month and day. If some of the numbers are not defined 0 is present.

```
#include <date.h>
```

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Public Member Functions

- Date (int y=0, int m=0, int d=0)
- int getDay () const
- int getMonth () const
- int getYear () const
- bool isEmpty () const
- bool isExact () const
- void read (const std::string &date)
- void setDay (int d)
- void setMonth (int m)
- void setYear (int y)
- std::string str () const

Private Attributes

· int day

Day number.

• int month

Month number.

int year

Year number.

14.6.1 Detailed Description

Basic date format. Holding three numbers for year, month and day. If some of the numbers are not defined 0 is present.

14.6.2 Constructor & Destructor Documentation

14.6.2.1 Date()

Default constructor.

Parameters

d	Day number.
m	Month number.
У	Year number.

14.6.3 Member Function Documentation

14.6.3.1 getDay()

```
int Date::getDay ( ) const
```

Get the day number.

Returns

Day number (0 if it was not set).

14.6.3.2 getMonth()

```
int Date::getMonth ( ) const
```

Get the month number.

Returns

Month number (0 if it was not set).

14.6.3.3 getYear()

```
int Date::getYear ( ) const
```

Get the year number.

Returns

Year number (0 if it was not set).

14.6.3.4 isEmpty()

```
bool Date::isEmpty ( ) const
```

Check if the date is completely not defined. All values are non-defined if they are equal to 0.

Returns

True if all values are 0.

14.6.3.5 isExact()

```
bool Date::isExact ( ) const
```

Check if the date is exact or not. Date is exact when all values are defined (non-zero).

Returns

True if the date is exact.

14.6.3.6 read()

Load date from string in specified flexible format: yyyy-mm-dd (if there would be for example 05 it can only be 5). If it does not follow the format there will be corrupted data and won't raise an exception.

14.6 Date Class Reference 79

Parameters

date Written date in correct format.

14.6.3.7 setDay()

```
void Date::setDay ( \quad \quad \text{int } d \ )
```

Set the day number.

Parameters

d Day number.

14.6.3.8 setMonth()

```
void Date::setMonth (
          int m )
```

Set the month number.

Parameters

m Month number.

14.6.3.9 setYear()

Set the year number.

Parameters

y Year number.

14.6.3.10 str()

```
std::string Date::str ( ) const
```

Get string representing the date in format yyyy-MM-DD. If one of the values are set to 0, then it is replaced by the same number of ?

Returns

String in the format.

14.6.4 Member Data Documentation

14.6.4.1 day

```
int Date::day [private]
```

Day number.

14.6.4.2 month

```
int Date::month [private]
```

Month number.

14.6.4.3 year

```
int Date::year [private]
```

Year number.

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

- · core/date.h
- · core/date.cpp

14.7 DateDialog Class Reference

Dialog for editing custom dates.

```
#include <dialogs.h>
```

Inheritance diagram for DateDialog:



Public Slots

• void saveDate ()

Slot for saving the date if OK button was pressed.

• void unknownDate (bool isUnknown)

Public Member Functions

- DateDialog (FamilyTree *FT, WrappedDate *date=nullptr, QWidget *parent=nullptr)
- ∼DateDialog ()

Default destructor.

Private Attributes

```
• WrappedDate * date_
```

Pointer to the used date.

• FamilyTree * FT_

Pointer to the family tree.

• Ui::DateDialog * ui

User interface of the Qt framework.

14.7.1 Detailed Description

Dialog for editing custom dates.

14.7.2 Constructor & Destructor Documentation

14.7.2.1 DateDialog()

```
DateDialog::DateDialog (
          FamilyTree * FT,
          WrappedDate * date = nullptr,
          QWidget * parent = nullptr ) [explicit]
```

Default constructor.

Parameters

FT	Pointer to the family tree.
date	Pointer to the used date.
parent	The Qt Widget parent.

14.7.2.2 **∼** Date Dialog()

```
DateDialog::~DateDialog ( )
```

Default destructor.

14.7.3 Member Function Documentation

14.7.3.1 saveDate

```
void DateDialog::saveDate ( ) [slot]
```

Slot for saving the date if OK button was pressed.

14.7.3.2 unknownDate

If the unknown check box was changed.

Parameters

isUnknown If the check box was checked.

14.7.4 Member Data Documentation

14.7.4.1 date_

```
WrappedDate* DateDialog::date_ [private]
```

Pointer to the used date.

14.7.4.2 FT_

```
FamilyTree* DateDialog::FT_ [private]
```

Pointer to the family tree.

14.7.4.3 ui

```
Ui::DateDialog* DateDialog::ui [private]
```

User interface of the Qt framework.

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

- graphics/dialogs.h
- graphics/dialogs.cpp

14.8 Event Class Reference

Class holding data for a single event.

```
#include <family_tree_items.h>
```

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Public Member Functions

- Event (Settings *settings)
- void addPerson (size_t person, const std::string &role=events::NO_ROLE)
- void clearPersons ()

Clear all persons.

- WrappedDate * date ()
- const WrappedDate & getDate () const
- size t getId () const
- const std::vector< std::pair< std::string, size_t >> & getPersons () const
- const std::string & getPlace () const
- · const Settings & getSettings () const
- size_t getTemplate () const
- const std::string & getText () const
- void printHtml (std::ostream &os, const std::vector< std::pair< std::string, std::string >> &persons)
- void readJson (const Json::Value &value)
- bool removePerson (size_t id)
- WrappedDate & setDate ()
- void setId (size t id)
- void setPlace (const std::string &place)
- void setTemplate (size_t templ)
- void setText (const std::string &text)
- std::string str () const
- std::vector< size_t > updateToTemplate ()

Private Attributes

· WrappedDate date_

Date of this event.

size_t id_

Id of this event.

std::vector< std::pair< std::string, size_t >> persons_

People with their roles.

std::string place_

Place of this event.

Settings * settings_

Settings used in app.

size_t template_

Template for this event.

std::string text

Text (note or value) for this event.

14.8.1 Detailed Description

Class holding data for a single event.

14.8.2 Constructor & Destructor Documentation

14.8.2.1 Event()

Default constructor.

Parameters

	settings	The settings used in app (to access the template).
--	----------	--

14.8.3 Member Function Documentation

14.8.3.1 addPerson()

Add person to the vector.

Parameters

person	ld of the person.
role	Special role for this person, or empty if he does not have special role.

14.8.3.2 clearPersons()

```
void Event::clearPersons ( )
```

Clear all persons.

14.8.3.3 date()

```
WrappedDate * Event::date ( )
```

Get the pointer to the date.

Returns

Pointer to the wrapped date.

14.8.3.4 getDate()

```
const WrappedDate & Event::getDate ( ) const
```

Get the date of this event.

Returns

Constant reference to the date.

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14.8.3.5 getId()

```
size_t Event::getId ( ) const
```

Get the id of this event.

Returns

Id of the event.

14.8.3.6 getPersons()

```
const std::vector< std::pair< std::string, size_t >> & Event::getPersons ( ) const
```

Get the vector of persons.

Returns

Constant reference to the vector of persons.

14.8.3.7 getPlace()

```
const std::string & Event::getPlace ( ) const
```

Get the place of this event.

Returns

Constant reference to the place.

14.8.3.8 getSettings()

```
const Settings & Event::getSettings ( ) const
```

Get the settings.

Returns

Constant reference to the settings.

14.8.3.9 getTemplate()

```
size_t Event::getTemplate ( ) const
```

Get the template for this event.

Returns

Id of the template.

14.8.3.10 getText()

```
const std::string & Event::getText ( ) const
```

Get the text note of the event.

Returns

Constant reference to the text.

14.8.3.11 printHtml()

```
void Event::printHtml ( std::ostream \ \& \ os, const \ std::vector< \ std::pair< \ std::string, \ std::string >>  \& \ persons \ )
```

Print event to an output stream in HTML format.

Parameters

os	Given output stream,
persons	List of pairs for role&person names.

14.8.3.12 readJson()

Read the relation from JSON value.

Parameters

value

14.8.3.13 removePerson()

Remove person from the list of all persons.

Parameters

id	ld of the person.
iu	ia oi tiio poiooii.

14.8 Event Class Reference 87

Returns

True if there is no other person left (thus left out event), otherwise false.

14.8.3.14 setDate()

```
WrappedDate & Event::setDate ( )
```

Set the date for this event.

Returns

Reference to the date.

14.8.3.15 setId()

Set the id for this event.

Parameters

id Given id.

14.8.3.16 setPlace()

Set the place for this event.

Parameters

place New place.

14.8.3.17 setTemplate()

Set the template of this event.

Parameters

templ Id of the new template.

14.8.3.18 setText()

Set the text for this event.

Parameters

text Given new text.

14.8.3.19 str()

```
std::string Event::str ( ) const
```

Get the event representation as a string.

Returns

Newly constructed string representing the event.

14.8.3.20 updateToTemplate()

```
std::vector< size_t > Event::updateToTemplate ( )
```

Update this event to the changed template.

Returns

Vector of all persons which were removed.

14.8.4 Member Data Documentation

14.8.4.1 date_

```
WrappedDate Event::date_ [private]
```

Date of this event.

14.8.4.2 id_

```
size_t Event::id_ [private]
```

Id of this event.

14.8.4.3 persons_

```
std::vector<std::pair<std::string, size_t> > Event::persons_ [private]
```

People with their roles.

14.8.4.4 place_

```
std::string Event::place_ [private]
```

Place of this event.

14.8.4.5 settings_

```
Settings* Event::settings_ [private]
```

Settings used in app.

14.8.4.6 template_

```
size_t Event::template_ [private]
```

Template for this event.

14.8.4.7 text_

```
std::string Event::text_ [private]
```

Text (note or value) for this event.

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

- core/family_tree_items.h
- core/family_tree_items.cpp

14.9 EventDialog Class Reference

Dialog showing single event for editing it.

```
#include <dialogs.h>
```

Inheritance diagram for EventDialog:



Public Slots

• void addEmptyRole ()

Add empty role to the roles.

• void choosePerson ()

Open dialog for choosing person.

void openCustomDate ()

Open dialog for custom date.

• void refreshDates ()

Refresh date from dialog.

- void refreshPersons (QTreeWidgetItem *item)
- void removeEmptyRole ()

Remove empty role from the list.

• void removePerson ()

Remove person from its role.

void saveEvent ()

Save the data to the event.

- void savePerson (Person *person)
- void showTemplate ()

Show the template details.

Public Member Functions

- EventDialog (FamilyTree *FT, QWidget *parent=nullptr, Event *event=nullptr)
- \sim EventDialog ()

Default destructor.

Private Member Functions

void showEventDetails ()

Show event details.

Private Attributes

WrappedDate date_

Wrapped date of this event.

Event * event_

Pointer to the event that is being edited, may be a null pointer.

FamilyTree * FT_

Pointer to the family tree.

• Person * main_

Pointer to the main person used if no other persons are in event.

• Ui::EventDialog * ui

User interface of the Qt framework.

14.9.1 Detailed Description

Dialog showing single event for editing it.

14.9.2 Constructor & Destructor Documentation

14.9.2.1 EventDialog()

Default constructor.

Parameters

FT	Pointer to the family tree.
parent	The Qt Widget parent.
event	Which event is being edited if any.

14.9.2.2 \sim EventDialog()

```
EventDialog::~EventDialog ( )
```

Default destructor.

14.9.3 Member Function Documentation

14.9.3.1 addEmptyRole

```
void EventDialog::addEmptyRole ( ) [slot]
```

Add empty role to the roles.

14.9.3.2 choosePerson

```
void EventDialog::choosePerson ( ) [slot]
```

Open dialog for choosing person.

14.9.3.3 openCustomDate

```
void EventDialog::openCustomDate ( ) [slot]
```

Open dialog for custom date.

14.9.3.4 refreshDates

```
void EventDialog::refreshDates ( ) [slot]
```

Refresh date from dialog.

14.9.3.5 refreshPersons

Refresh persons comboBox to the current role and its value.

Parameters

item Which item was clicked on.

14.9.3.6 removeEmptyRole

```
void EventDialog::removeEmptyRole ( ) [slot]
```

Remove empty role from the list.

14.9.3.7 removePerson

```
void EventDialog::removePerson ( ) [slot]
```

Remove person from its role.

14.9.3.8 saveEvent

```
void EventDialog::saveEvent ( ) [slot]
```

Save the data to the event.

14.9.3.9 savePerson

Save person from dialog.

Parameters

person	Which person was selected.
--------	----------------------------

14.9.3.10 showEventDetails()

```
void EventDialog::showEventDetails ( ) [private]
```

Show event details.

14.9.3.11 showTemplate

```
void EventDialog::showTemplate ( ) [slot]
```

Show the template details.

14.9.4 Member Data Documentation

14.9.4.1 date

WrappedDate EventDialog::date_ [private]

Wrapped date of this event.

14.9.4.2 event

```
Event* EventDialog::event_ [private]
```

Pointer to the event that is being edited, may be a null pointer.

14.9.4.3 FT

```
FamilyTree* EventDialog::FT_ [private]
```

Pointer to the family tree.

14.9.4.4 main

```
Person* EventDialog::main_ [private]
```

Pointer to the main person used if no other persons are in event.

14.9.4.5 ui

```
Ui::EventDialog* EventDialog::ui [private]
```

User interface of the Qt framework.

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

- · graphics/dialogs.h
- graphics/dialogs.cpp

14.10 EventRoleItem Class Reference

Tree widget item for persons in events.

```
#include <graphics_items.h>
```

Inheritance diagram for EventRoleItem:



Public Member Functions

- EventRoleItem (const std::string &role, size_t id=0)
- size_t getId ()
- void setPerson (const QString &name, size_t id=0)

Private Attributes

```
• size_t id_

Id of the person.
```

14.10.1 Detailed Description

Tree widget item for persons in events.

14.10.2 Constructor & Destructor Documentation

14.10.2.1 EventRoleItem()

Default constructor.

Parameters

role	String representing the role.
id	ld of the person if any.

14.10.3 Member Function Documentation

14.10.3.1 getId()

```
\label{eq:size_to_size_to_size} \begin{tabular}{ll} size_t & set & set
```

Returns

ld of the person.

14.10.3.2 setPerson()

Set person to the role.

Parameters

name	Name of the person.
id	ld of the person.

14.10.4 Member Data Documentation

14.10.4.1 id

```
size_t EventRoleItem::id_ [private]
```

Id of the person.

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

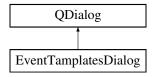
- graphics/graphics_items.h
- graphics/graphics_items.cpp

14.11 EventTamplatesDialog Class Reference

Dialog showing all event templates and possibly editing them or creating new ones.

```
#include <dialogs.h>
```

Inheritance diagram for EventTamplatesDialog:



Public Slots

· void addDefaults ()

Add default templates.

• void addNewRole ()

Add new role to the list.

void addNewTemplate ()

Show empty boxes to add new template.

• void removeRole ()

Remove role from the list.

void removeTemplate ()

Remove template from the list.

void saveTemplate ()

Save template or create a new one.

void showTemplate (QTreeWidgetItem *item)

Public Member Functions

- EventTamplatesDialog (FamilyTree *FT, QWidget *parent=nullptr)
- ∼EventTamplatesDialog ()

Default destructor.

Private Member Functions

• void clear ()

Clear all boxes.

• void refreshListWidget ()

Refresh list of all relation templates.

- void saveTemplate (EventTemplate *event)
- void setEnabledWidgets (bool enabled)

Private Attributes

· bool addingNew_

When we are adding new template.

FamilyTree * FT_

Pointer to the family tree.

• Ui::EventTamplatesDialog * ui

User interface of the Qt framework.

14.11.1 Detailed Description

Dialog showing all event templates and possibly editing them or creating new ones.

14.11.2 Constructor & Destructor Documentation

14.11.2.1 EventTamplatesDialog()

```
EventTamplatesDialog::EventTamplatesDialog (
          FamilyTree * FT,
          QWidget * parent = nullptr ) [explicit]
```

Default constructor.

Parameters

FT	Pointer to the family tree.
parent	The Qt Widget parent.

14.11.2.2 ∼EventTamplatesDialog()

```
{\tt EventTamplatesDialog::}{\sim} {\tt EventTamplatesDialog~(~)}
```

Default destructor.

14.11.3 Member Function Documentation

14.11.3.1 addDefaults

```
void EventTamplatesDialog::addDefaults ( ) [slot]
```

Add default templates.

14.11.3.2 addNewRole

```
void EventTamplatesDialog::addNewRole ( ) [slot]
```

Add new role to the list.

14.11.3.3 addNewTemplate

```
void EventTamplatesDialog::addNewTemplate ( ) [slot]
```

Show empty boxes to add new template.

14.11.3.4 clear()

```
void EventTamplatesDialog::clear ( ) [private]
```

Clear all boxes.

14.11.3.5 refreshListWidget()

```
void EventTamplatesDialog::refreshListWidget ( ) [private]
```

Refresh list of all relation templates.

14.11.3.6 removeRole

```
void EventTamplatesDialog::removeRole ( ) [slot]
```

Remove role from the list.

14.11.3.7 removeTemplate

```
void EventTamplatesDialog::removeTemplate ( ) [slot]
```

Remove template from the list.

14.11.3.8 saveTemplate [1/2]

```
void EventTamplatesDialog::saveTemplate ( ) [slot]
```

Save template or create a new one.

14.11.3.9 saveTemplate() [2/2]

Overwrite data of the event template by the input from ui.

Parameters

event Pointer to which template to overwrite.

14.11.3.10 setEnabledWidgets()

Set enabled for all widgets.

Parameters

If the widgets should be enabled or not.

14.11.3.11 showTemplate

Show template details.

Parameters

item Which item is clicked.

14.11.4 Member Data Documentation

14.11.4.1 addingNew_

```
bool EventTamplatesDialog::addingNew_ [private]
```

When we are adding new template.

14.11.4.2 FT_

```
FamilyTree* EventTamplatesDialog::FT_ [private]
```

Pointer to the family tree.

14.11.4.3 ui

```
Ui::EventTamplatesDialog* EventTamplatesDialog::ui [private]
```

User interface of the Qt framework.

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

- graphics/dialogs.h
- graphics/dialogs.cpp

14.12 EventTemplate Class Reference

Template for events. It specifies whether the event includes a date, a place or if more persons are involved and if they have some special roles.

```
#include <config.h>
```

Public Member Functions

- EventTemplate ()
 - Default constructor.
- · bool containsDate () const
- · bool containsPlace () const
- · const std::string & getDescription () const
- size_t getId () const
- const std::vector< std::string > & getRoles () const
- · const std::string & getTitle () const
- bool hasMorePeopleInvolved () const
- bool hasRoles () const
- void readJson (const Json::Value &value)
- void setContainsDate (bool hasDate)
- void setContainsPlace (bool hasPlace)
- std::string & setDescription ()
- void setId (size_t id)
- void setMorePeopleInvolved (bool morePeople)
- void setRoles (std::vector< std::string > &roles)
- std::string & setTitle ()
- std::string str () const

Private Attributes

· bool containsDate_

If the event contains a date or not.

· bool containsPlace_

If the event contains a place or not.

std::string description_

Description of the event.

size_t id_

Special ID of this template. May change during the execution.

bool morePeopleInvolved_

If more people are involved. Otherwise only one is involved.

std::vector< std::string > roles

Vector of special role names.

std::string title_

Title of the event.

14.12.1 Detailed Description

Template for events. It specifies whether the event includes a date, a place or if more persons are involved and if they have some special roles.

14.12.2 Constructor & Destructor Documentation

14.12.2.1 EventTemplate()

```
EventTemplate::EventTemplate ( )
```

Default constructor.

14.12.3 Member Function Documentation

14.12.3.1 containsDate()

```
bool EventTemplate::containsDate ( ) const
```

If the event contains a date or not.

Returns

True if it contains a date, false otherwise.

14.12.3.2 containsPlace()

```
bool EventTemplate::containsPlace ( ) const
```

If the event contains a place or not.

Returns

True if the event contains a place, false otherwise.

14.12.3.3 getDescription()

```
const std::string & EventTemplate::getDescription ( ) const
```

Get the description of the event.

Returns

Constant reference to the description.

14.12.3.4 getId()

```
size_t EventTemplate::getId ( ) const
```

Get the ID of this event template.

Returns

ID of this event template.

14.12.3.5 getRoles()

```
const std::vector< std::string > & EventTemplate::getRoles ( ) const
```

Get the vector of special roles.

Returns

Constant reference to the vector of role names.

14.12.3.6 getTitle()

```
const std::string & EventTemplate::getTitle ( ) const
```

Get the title of this event.

Returns

Constant reference to the title.

14.12.3.7 hasMorePeopleInvolved()

```
bool EventTemplate::hasMorePeopleInvolved ( ) const
```

If there is more people involved in this event.

Returns

True if more people are involved.

14.12.3.8 hasRoles()

```
bool EventTemplate::hasRoles ( ) const
```

If the event has special roles.

Returns

True if special roles were given.

14.12.3.9 readJson()

Read the data from JSON.

Parameters

value Given JSON value.

14.12.3.10 setContainsDate()

```
void EventTemplate::setContainsDate (
          bool hasDate )
```

Set if the template contains date or not.

Parameters

hasDate	If the template contains a date.
---------	----------------------------------

14.12.3.11 setContainsPlace()

```
void EventTemplate::setContainsPlace ( bool\ hasPlace\ )
```

Set if the template contains place or not.

Parameters

r	nasPlace	If the template contains a place.
---	----------	-----------------------------------

14.12.3.12 setDescription()

```
std::string & EventTemplate::setDescription ( )
```

Set the description of the event by giving the reference to the string.

Returns

Reference to the description.

14.12.3.13 setId()

Set the ID of this event template.

Parameters

id New ID.

14.12.3.14 setMorePeopleInvolved()

Set if more people are involved in this event.

Parameters

morePeople	True if more people are involved.
------------	-----------------------------------

14.12.3.15 setRoles()

Set the roles.

Parameters

roles Vector of all role names.

14.12.3.16 setTitle()

```
std::string & EventTemplate::setTitle ( )
```

Set the title of the event by giving the reference to the string.

Returns

Reference to the title.

14.12.3.17 str()

```
std::string EventTemplate::str ( ) const
```

Represent event template as a string.

Returns

Newly constructed string representing the template.

14.12.4 Member Data Documentation

14.12.4.1 containsDate

```
bool EventTemplate::containsDate_ [private]
```

If the event contains a date or not.

14.12.4.2 containsPlace_

```
bool EventTemplate::containsPlace_ [private]
```

If the event contains a place or not.

14.12.4.3 description_

```
std::string EventTemplate::description_ [private]
```

Description of the event.

14.12.4.4 id_

```
size_t EventTemplate::id_ [private]
```

Special ID of this template. May change during the execution.

14.12.4.5 morePeopleInvolved_

```
bool EventTemplate::morePeopleInvolved_ [private]
```

If more people are involved. Otherwise only one is involved.

14.12.4.6 roles_

```
std::vector<std::string> EventTemplate::roles_ [private]
```

Vector of special role names.

14.12.4.7 title_

```
std::string EventTemplate::title_ [private]
```

Title of the event.

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

- · core/config.h
- core/config.cpp

14.13 ExportProjectDialog Class Reference

Dialog for exporting project.

```
#include <dialogs.h>
```

Inheritance diagram for ExportProjectDialog:



Public Slots

• void checkPerson ()

Let the person check box be always checked.

void exportProject ()

Export project upon clicking OK.

Public Member Functions

- ExportProjectDialog (FamilyTree *FT, QWidget *parent=nullptr)
- ∼ExportProjectDialog ()

Default destructor.

Private Attributes

• FamilyTree * FT_

Pointer to the family tree.

• Ui::ExportProjectDialog * ui

Used Qt user interface.

14.13.1 Detailed Description

Dialog for exporting project.

14.13.2 Constructor & Destructor Documentation

14.13.2.1 ExportProjectDialog()

```
ExportProjectDialog::ExportProjectDialog (
          FamilyTree * FT,
          QWidget * parent = nullptr ) [explicit]
```

Default constructor.

Parameters

FT	Pointer to the used Family tree.
parent	The Qt Widget parent.

14.13.2.2 ~ExportProjectDialog()

```
ExportProjectDialog::~ExportProjectDialog ( )
```

Default destructor.

14.13.3 Member Function Documentation

14.13.3.1 checkPerson

```
void ExportProjectDialog::checkPerson ( ) [slot]
```

Let the person check box be always checked.

14.13.3.2 exportProject

```
void ExportProjectDialog::exportProject ( ) [slot]
```

Export project upon clicking OK.

14.13.4 Member Data Documentation

14.13.4.1 FT_

```
FamilyTree* ExportProjectDialog::FT_ [private]
```

Pointer to the family tree.

14.13.4.2 ui

```
Ui::ExportProjectDialog* ExportProjectDialog::ui [private]
```

Used Qt user interface.

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

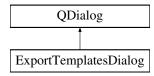
- graphics/dialogs.h
- graphics/dialogs.cpp

14.14 ExportTemplatesDialog Class Reference

Dialog for exporting some of the event and relation templates.

```
#include <dialogs.h>
```

Inheritance diagram for ExportTemplatesDialog:



Public Slots

• void exportTemplates ()

When OK button was pressed load all selected templates and export them.

Public Member Functions

- ExportTemplatesDialog (FamilyTree *FT, QWidget *parent=nullptr)
- ∼ExportTemplatesDialog ()

Default destructor.

Private Attributes

FamilyTree * FT_

Pointer to the family tree.

• Ui::ExportTemplatesDialog * ui

Used Qt user interface.

14.14.1 Detailed Description

Dialog for exporting some of the event and relation templates.

14.14.2 Constructor & Destructor Documentation

14.14.2.1 ExportTemplatesDialog()

Default constructor.

Parameters

FT	Pointer to the family tree.
parent	The Qt Widget parent.

14.14.2.2 ~ExportTemplatesDialog()

```
ExportTemplatesDialog::~ExportTemplatesDialog ( )
```

Default destructor.

14.14.3 Member Function Documentation

14.14.3.1 exportTemplates

```
void ExportTemplatesDialog::exportTemplates ( ) [slot]
```

When OK button was pressed load all selected templates and export them.

14.14.4 Member Data Documentation

14.14.4.1 FT_

```
FamilyTree* ExportTemplatesDialog::FT_ [private]
```

Pointer to the family tree.

14.14.4.2 ui

```
Ui::ExportTemplatesDialog* ExportTemplatesDialog::ui [private]
```

Used Qt user interface.

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

- · graphics/dialogs.h
- graphics/dialogs.cpp

14.15 FamilyTree Class Reference

Main class for holding all data of a family tree. Also it acts as a bridge to the core of the application.

```
#include <family_tree.h>
```

Public Member Functions

• FamilyTree ()

Default constructor.

- Event * addEvent ()
- Event * addEvent (size t index)
- File * addFile (const std::string &name, FileType type=GENERAL FILE)
- File * addFile (const std::string &name, size_t index, FileType type=GENERAL_FILE)
- Person * addPerson ()
- Person * addPerson (size_t index)
- Relation * addRelation ()
- Relation * addRelation (size_t index)
- void append (FamilyTree &other)
- std::pair< bool, std::string > checkFileConsistence ()
- void clear ()

Clear all data and set it for a new project.

void clearProjectPaths ()

Clear all project paths except for this one.

- size t copyFile (const std::string &filePath, FileType type=GENERAL FILE)
- void createDatabase (const std::string &dirPath)
- size_t createEmptyFile (const std::string &name, FileType type=GENERAL_FILE)
- void enableHelpOnStartup (bool help)
- void exportProject (const std::string &filePath, bool includingEvents, bool includingRelations)
- std::string createResourcesDir (const std::string &target)
- void exportTemplates (const std::vector< size_t > &eventTemplates, const std::vector< size_t > &rel←
 Templates, const std::string &filename)
- std::optional < Event * > getEvent (size_t id)
- const std::map< size_t, std::unique_ptr< Event > > & getEvents () const
- std::optional< File * > getFile (size t id, FileType type=GENERAL FILE)
- void getFileAbsolutePath (std::string &absolutePath, size t id, FileType type=GENERAL FILE)
- const std::map< size_t, std::unique_ptr< File > > & getFiles (FileType type=GENERAL_FILE)
- std::vector< std::string > getOrphanFiles ()
- Person * getMainPerson ()
- const std::map< size_t, std::unique_ptr< Person > > & getPersons ()
- std::optional < Person * > getPerson (size_t id)
- const std::vector< std::string > & getProjectPaths () const
- std::optional< Relation * > getRelation (size_t id)
- const std::map< size_t, std::unique_ptr< Relation >> & getRelations ()
- std::vector< RelationSuggestion > getRelationSuggestions (size_t relId)
- Settings * getSettings ()
- void getUrlFile (size_t id, std::string &fileUrl, FileType type=GENERAL_FILE)
- bool importProject (const std::string &filePath)
- bool importRootDir (const std::string &dirPath)
- std::pair< bool, size_t > importTemplates (const std::string &filePath)
- bool isDirectorySet ()
- · bool isSaved () const
- void log (const std::string &error)
- std::pair< bool, bool > openDatabase (const std::string &dirPath, std::string &errorMessage, std::string &backupFile)
- bool openDatabase (std::string &errorMessage)
- bool openSingleFileDatabase (const std::string &filePath)
- void printHtml (const std::string &dirPath)
- void printMainPersonHtml (const std::string &outputFile)
- void promoteRelation (size_t id)

- · void removeBackup ()
 - Remove backup file if there is any.
- void removeEvent (size t id)
- void removeEventTemplate (size_t id)
- size t removeOrphanFiles ()
- · void removePerson ()

Remove main person from the tree. Also delete all of his appearances.

- · void removeRelation (size tid)
- void removeRelationTemplate (size t id)
- void renameFile (size t id, const std::string &newFilename, FileType type)
- bool restoreBackup (const std::string &backupFile, std::string &errorMessage)
- void setMainPerson (Person *p)
- void setMainPerson (size t id)
- void setRelation (size t relld, size t pers1ld, size t pers2ld, size t templld)
- void setUnsaved ()

Set unsaved state.

- bool showHelpOnStartup ()
- bool storeDatabase ()
- size t templatesBasedOnEventTemplate (size t templateId)
- size_t templatesBasedOnRelationTemplate (size_t templateId)
- void updateEventsWithTemplate (size t templ)
- bool writeConfig (const std::string &newPath)

Private Member Functions

- bool checkFileTypeConsistence (std::ostream &os, FileType type)
- void getGeneralOrphaFiles (std::vector< std::string > &files, const std::map< size_t, std::unique_ptr< File > > &container, FileType type)
- void getParentSuggestions (std::vector< RelationSuggestion > &suggestions, const Person *parent, const Person *child, size_t id, Trait trait, const std::set< size_t > &forbiddenPersonParent, const std::set< size_t > &forbiddenPersonChild)
- void getPartnersSuggestions (std::vector< RelationSuggestion > &suggestions, const Person *person, const Person *second, size_t id, const std::set< size_t > &forbiddenPersons)
- void getSiblingsSuggestions (std::vector< RelationSuggestion > & suggestions, const Person *person, const Person *second, size_t id, const std::set< size_t > & forbiddenPersons)
- bool loadDatabaseFile (const std::string &file, std::function < void(const Json::Value &) > reader, std::string &errorMessage)
- void printCss (const std::string &dirPath)
- void printFiles (std::ostream &os, const std::map< size_t, std::unique_ptr< File > > &container, const std
 ::string &label)
- void printEvents (std::ostream &os)
- void printHtmlPerson (std::ostream &os, bool links, Person *p)
- void printPeople (std::ostream &os)
- void printRelations (std::ostream &os)
- void readJsonEvents (const Json::Value &value)
- void readJsonFiles (const Json::Value &value, std::map< size_t, std::unique_ptr< File >> &container, const std::string &label, size_t &index)
- void readJsonPeople (const Json::Value &value)
- void readJsonRelations (const Json::Value &value)
- size_t removeGeneralOrphanFile (std::map< size_t, std::unique_ptr< File > > &container, FileType type, const std::string &dir)
- void storeFileDatabase (FileType type)

Private Attributes

```
    std::map< size_t, std::unique_ptr< Event >> allEvents_

      All the events in the tree.

    std::map< size_t, std::unique_ptr< File >> allFiles_

      All files in app.

    std::map< size_t, std::unique_ptr< File >> allMedia_

      All media in app.

    std::map< size_t, std::unique_ptr< File >> allNotes_

      All notes in app.

    std::map< size_t, std::unique_ptr< Person >> allPersons_

      Map of all persons in family tree.

    std::map< size_t, std::unique_ptr< Relation > > allRelations_

      All relations in the tree.
size_t event_index_
      Last free index for event. Always start from 1.

    size t file index

      Last free id for file. Always start from 1.

    Person * mainPerson_

      Main person showing as the centre of the tree.
size_t media_index_
      Last free id for media. Always start from 1.

    size_t note_index_

      Last free id for note. Always start from 1.

    bool openHelp

      If help window should be shown.

    Parser parser_

      Parser for working with locally stored database.
size_t person_index_
      Last free id for person. Always start from 1.

    std::vector< std::string > projectPaths

      Paths to existing projects.
size_t relation_index_
      Last free index for relation.

    bool savedChanges_

      If all changes were saved or not.
· Settings settings_
      Settings of the app.
```

14.15.1 Detailed Description

Main class for holding all data of a family tree. Also it acts as a bridge to the core of the application.

14.15.2 Constructor & Destructor Documentation

14.15.2.1 FamilyTree()

```
FamilyTree::FamilyTree ( )
```

Default constructor.

14.15.3 Member Function Documentation

14.15.3.1 addEvent() [1/2]

```
Event * FamilyTree::addEvent ( )
```

Add new event to the family tree.

Returns

Pointer to the new event.

14.15.3.2 addEvent() [2/2]

Add new event to the family tree with known index.

Parameters

index	Known index.
-------	--------------

Returns

Pointer to the new event.

14.15.3.3 addFile() [1/2]

Add file to the database.

Parameters

name	Given name of the file.
type	If the file is general file, media or note.

Returns

Pointer to the new file.

14.15.3.4 addFile() [2/2]

```
size_t index,
FileType type = GENERAL_FILE )
```

Add file to the database with known index.

Parameters

name	Given name of the file.
index	Known index.
type	If the file is general file, media or note.

Returns

Pointer to the new file.

14.15.3.5 addPerson() [1/2]

```
Person * FamilyTree::addPerson ( )
```

Add person to the database.

Returns

Pointer to that new person.

14.15.3.6 addPerson() [2/2]

Add person to the database with known index.

Parameters

index	Known index.
-------	--------------

Returns

Pointer to that new person.

14.15.3.7 addRelation() [1/2]

```
Relation * FamilyTree::addRelation ( )
```

Add relation to the family tree.

Returns

Pointer to the new relation.

14.15.3.8 addRelation() [2/2]

Add relation to the family tree with known index.

Parameters

Returns

Pointer to the new relation.

14.15.3.9 append()

Append the whole project by another one. Note that the second family tree will be corrupted. Because all the indexes must be changed. Though the second tree won't be saved.

Parameters

```
other Second Family tree.
```

14.15.3.10 checkFileConsistence()

```
\verb|std::pair<|bool|, | \verb|std::string|| > \verb|FamilyTree::checkFileConsistence|| ( )
```

Check the consistence of stored file.

Returns

Bool if it is consistent and written details of all wrong files.

14.15.3.11 checkFileTypeConsistence()

Check file consistence of a single type.

Parameters

os	Where to write error.
type	Which type to look for.

14.15.3.12 clear()

```
void FamilyTree::clear ( )
```

Clear all data and set it for a new project.

14.15.3.13 clearProjectPaths()

```
void FamilyTree::clearProjectPaths ( )
```

Clear all project paths except for this one.

14.15.3.14 copyFile()

Copy an existing file.

Parameters

filePath	Path to the original file on the disk.
type	What type of file it is.

Returns

Id of the new file.

14.15.3.15 createDatabase()

Create a new empty database.

Parameters

dirPath	Path to the root directory.

14.15.3.16 createEmptyFile()

Create an empty file.

Parameters

name	Name of the file. Not the real name on disk.
type	What type of file it is.

Returns

Id of the new file.

14.15.3.17 createResourcesDir()

Create resource file for diagrams for HTML export.

Parameters

target	Where the resource dir should be (either a path to the directory or a file).
--------	--

Returns

String representing the path to the resources directory.

14.15.3.18 enableHelpOnStartup()

```
void FamilyTree::enableHelpOnStartup ( bool\ help\ )
```

Switch if the help window should be opened at start up, also write it to configuration.

Parameters

help	If it should be opened or not.

14.15.3.19 exportProject()

Export this project in one single JSON file.

Parameters

filePath	Path to the export file.
includingEvents	If the export should include events.
includingRelations	If the export should include relations.

14.15.3.20 exportTemplates()

Export given templates to an output file in JSON format.

Parameters

eventTemplates	Vector of event templates.
relTemplates	Vector of relation templates.
filename	Path to the output file.

14.15.3.21 getEvent()

Get pointer to the event.

Parameters

```
id Id of the event.
```

Returns

Get optionally pointer to the event or empty.

14.15.3.22 getEvents()

```
const std::map< size_t, std::unique_ptr< Event > > & FamilyTree::getEvents ( ) const
```

Get constant reference to the container of all events.

Returns

Constant reference to the map of all events.

14.15.3.23 getFile()

Get pointer to given file.

Parameters

id	ld of the file.
type	What type of file to get.

Returns

Optionally pointer to the file or empty.

14.15.3.24 getFileAbsolutePath()

```
void FamilyTree::getFileAbsolutePath (
    std::string & absolutePath,
    size_t id,
    FileType type = GENERAL_FILE )
```

Get the absolute path to the given file.

Parameters

absolutePath	Where will be the absolute paths stored.
id	ld of the file.
type	Which type is used.

14.15.3.25 getFiles()

Get constant reference to the vector of all files.

Parameters

	type	What type of files the vector has.
--	------	------------------------------------

Returns

Constant reference to the map of files with given type.

14.15.3.26 getGeneralOrphaFiles()

```
void FamilyTree::getGeneralOrphaFiles (
    std::vector< std::string > & files,
    const std::map< size_t, std::unique_ptr< File > > & container,
    FileType type ) [private]
```

Get all files that would be removed.

Parameters

files	Where to store these files.
container	Which map to use.
type	Which type we are using.

14.15.3.27 getMainPerson()

```
Person * FamilyTree::getMainPerson ( )
```

Get the main person.

Returns

Pointer to the main person.

14.15.3.28 getOrphanFiles()

```
std::vector< std::string > FamilyTree::getOrphanFiles ( )
```

Get all the orphan files.

Returns

Vector of all files, that will be permanently deleted.

14.15.3.29 getParentSuggestions()

```
void FamilyTree::getParentSuggestions (
    std::vector< RelationSuggestion > & suggestions,
    const Person * parent,
    const Person * child,
    size_t id,
    Trait trait,
    const std::set< size_t > & forbiddenPersonParent,
    const std::set< size_t > & forbiddenPersonChild ) [private]
```

Append relation suggestions by a parent relations.

Parameters

suggestions	Container of all suggestions.
parent	Which person is parent.
child	Which person is child.
id	ld of this relation.
trait	Trait of this relation.
forbiddenPersonParent	Which persons are forbidden to bind to with a parent.
forbiddenPersonChild	Which persons are forbidden to bind to with a child.

14.15.3.30 getPartnersSuggestions()

```
void FamilyTree::getPartnersSuggestions (
    std::vector< RelationSuggestion > & suggestions,
    const Person * person,
    const Person * second,
    size_t id,
    const std::set< size_t > & forbiddenPersons ) [private]
```

Append relation suggestions by partners relations.

Parameters

suggestions	Container of all suggestions.
person	Which person is the main one.
second	Which person is the second one.
id	ld of this relation.
forbiddenPersons	Which persons are forbidden to bind to a given person.

14.15.3.31 getPerson()

```
std::optional< Person * > FamilyTree::getPerson ( size_t id)
```

Get pointer to the person by its id.

Parameters

```
id Id of the person.
```

Returns

Optionally pointer to the person with its id or empty.

14.15.3.32 getPersons()

```
const std::map< size_t, std::unique_ptr< Person >> \& FamilyTree::getPersons ( )
```

Get the container of persons.

Returns

Constant reference to the container.

14.15.3.33 getProjectPaths()

```
const std::vector< std::string > \& FamilyTree::getProjectPaths ( ) const
```

Get the constant reference to the paths to the roots of projects.

Returns

Constant reference to the vector of all strings representing root directories.

14.15.3.34 getRelation()

```
std::optional< Relation * > FamilyTree::getRelation ( size_t id)
```

Get pointer to the relation.

Parameters

```
id Id of the relation.
```

Returns

Optionally pointer to the relation or empty.

14.15.3.35 getRelations()

```
const std::map< size_t, std::unique_ptr< Relation >> & FamilyTree::getRelations ( )
```

Get the constant reference to the map of all relations.

Returns

Constant reference to the map of all relations.

14.15.3.36 getRelationSuggestions()

Get relation suggestions to the given relation.

Parameters

rel⊷	Id of the given relation.
ld	

Returns

vector of all suggestions.

14.15.3.37 getSettings()

```
Settings * FamilyTree::getSettings ( )
```

Get pointer to the settings.

Returns

Pointer to the settings.

14.15.3.38 getSiblingsSuggestions()

```
void FamilyTree::getSiblingsSuggestions (
    std::vector< RelationSuggestion > & suggestions,
    const Person * person,
    const Person * second,
    size_t id,
    const std::set< size_t > & forbiddenPersons ) [private]
```

Append relation suggestions by siblings relations.

Parameters

suggestions	Container of all suggestions.
person	Which person is the main one.
second	Which person is the second one.
id	ld of this relation. – This will be changed
forbiddenPersons	Which persons are forbidden to bind to a given person.

14.15.3.39 getUrlFile()

Get string representing URL to local file.

Parameters

id	Index of the given file.
fileUrl	URL of the file.
type	If the file is general file, media or note.

14.15.3.40 importProject()

Import project.

Parameters

filePath	Path to the file.

Returns

If the import was successful or not.

14.15.3.41 importRootDir()

Import project from root directory.

Parameters

dirPath	Path to the root directory.
---------	-----------------------------

Returns

If the import was successful or not.

14.15.3.42 importTemplates()

Import templates.

Parameters

```
filePath Path to the file.
```

Returns

If the import was successful or not and number of imported templates.

14.15.3.43 isDirectorySet()

```
bool FamilyTree::isDirectorySet ( )
```

If the root directory for the database was already set.

Returns

True if the directory was set.

14.15.3.44 isSaved()

```
bool FamilyTree::isSaved ( ) const
```

If all changes are saved.

Returns

True if all changes are saved, otherwise false.

14.15.3.45 loadDatabaseFile()

Load one single file from the database.

Parameters

file	Which file in database is being loaded.
reader	Which function read the data and load them.
errorMessage	Where will the error message stored.

Returns

If the parsing was successful or not.

14.15.3.46 log()

Log error code to the parser.

Parameters

```
error What is the text of the error.
```

14.15.3.47 openDatabase() [1/2]

Open a database from its root directory.

Parameters

dirPath	Path to the root directory.
errorMessage	To show what was the potential error.
backupFile	Which file has a backup.

Returns

First if the parsing was successful. Second if there exists backup.

14.15.3.48 openDatabase() [2/2]

Read the database without setting dir path.

Parameters

errorMessage	If error occurred show it there.
--------------	----------------------------------

Returns

If the parsing of the database was successful or not.

14.15.3.49 openSingleFileDatabase()

Open database from a single file.

Parameters

```
filePath Path to the file.
```

Returns

If the parsing was successful or not.

14.15.3.50 printCss()

Print custom CSS.

Parameters

dirPath Path to th	e directory for the CSS.
--------------------	--------------------------

14.15.3.51 printEvents()

Print all events.

Parameters

```
os Given output stream.
```

14.15.3.52 printFiles()

Print all files from vector container.

Parameters

os	Given stream.
container	Given container of files.
label	What is the label in JSON file.

14.15.3.53 printHtml()

Print the whole project to an output directory.

Parameters

dirPath	Path to the directory.

14.15.3.54 printHtmlPerson()

Print single person to an output in html format.

Parameters

os	Which output stream to use.
links	True if they should be links to other persons.
р	Which person is to be printed.

14.15.3.55 printMainPersonHtml()

Print main person in HTML format.

Parameters

```
outputFile Output file.
```

14.15.3.56 printPeople()

Print all the people into a stream in a semi-structured JSON format.

Parameters

```
os Given stream.
```

14.15.3.57 printRelations()

Print all relations.

Parameters

```
os Given output stream.
```

14.15.3.58 promoteRelation()

```
void FamilyTree::promoteRelation ( \label{eq:size_tid} \mbox{size\_t $id$ )}
```

Promote a relationship to be the persons main. If possible it will be applied to both persons.

Parameters

id Id of the relation that is to be promoted.

14.15.3.59 readJsonEvents()

Read and load all events from its JSON value.

Parameters

value Loaded value from	m the source file.
-------------------------	--------------------

14.15.3.60 readJsonFiles()

Read and load meta-data about files from JSON value.

Parameters

value	Loaded value from the source file.
container	Which vector to use for storing files.
label	Which label was used in the JSON file.
index	Indexing of given container.

14.15.3.61 readJsonPeople()

Read and load people from given JSON value.

Parameters

Γ	value	Loaded value from the file.
	value	Loaded value from the file.

14.15.3.62 readJsonRelations()

Read and load all relations from its JSON value.

Parameters

value Loaded value from the source file.	
--	--

14.15.3.63 removeBackup()

```
void FamilyTree::removeBackup ( )
```

Remove backup file if there is any.

14.15.3.64 removeEvent()

Remove event from family tree.

Parameters

```
id Id of the event.
```

14.15.3.65 removeEventTemplate()

```
void FamilyTree::removeEventTemplate ( \mathtt{size\_t} \ id \ )
```

Remove event template and all events based on this template.

Parameters

```
id Id of the template.
```

14.15.3.66 removeGeneralOrphanFile()

Remove general orphan file.

Parameters

containe	Which container holding files is to be used.
type	Which type will be used.
dir	Which directory in database to use.

Returns

Number of remove files.

14.15.3.67 removeOrphanFiles()

```
size_t FamilyTree::removeOrphanFiles ( )
```

Remove files that no one uses.

Returns

Number of deleted files.

14.15.3.68 removePerson()

```
void FamilyTree::removePerson ( )
```

Remove main person from the tree. Also delete all of his appearances.

14.15.3.69 removeRelation()

Remove relation from the family tree.

Parameters

id Id of the relation which will be removed.

14.15.3.70 removeRelationTemplate()

Remove relation template and all relations based on this template.

Parameters

id Id of the template.

14.15.3.71 renameFile()

```
const std::string & newFilename,
FileType type )
```

Rename given file.

Parameters

id	ld of the file.
newFilename	New file name for the file.
type	What type is the file.

14.15.3.72 restoreBackup()

Restore backup file from the database. Also load the project again.

Parameters

backupFile	Which is the backup file.
errorMessage	If error occurred show it there.

Returns

If the parsing of restored database was successful or not.

14.15.3.73 setMainPerson() [1/2]

Set the main person.

Parameters

```
p New main person.
```

14.15.3.74 setMainPerson() [2/2]

Set the main person.

Parameters

```
id Id of the person.
```

14.15.3.75 setRelation()

```
void FamilyTree::setRelation (
    size_t relId,
    size_t pers1Id,
    size_t pers2Id,
    size_t templId )
```

Set the data about one relation.

Parameters

relld	Id of the relation to be edited.
pers1← Id	ld of the first person.
pers2← Id	ld of the second person.
templ← Id	ld of the used template.

14.15.3.76 setUnsaved()

```
void FamilyTree::setUnsaved ( )
```

Set unsaved state.

14.15.3.77 showHelpOnStartup()

```
bool FamilyTree::showHelpOnStartup ( )
```

If help dialog should be shown.

Returns

True if it should be shown.

14.15.3.78 storeDatabase()

```
bool FamilyTree::storeDatabase ( )
```

Store the whole database to its files.

Returns

If the storing was successful.

14.15.3.79 storeFileDatabase()

Store file database when putting file to database. Also remove all orphan files.

Parameters

type What type of files are save

14.15.3.80 templatesBasedOnEventTemplate()

```
\label{eq:size_tamilyTree::templatesBasedOnEventTemplate} \begin{tabular}{ll} size\_t & templateId \end{tabular} )
```

Get the number of events based on this event template.

Parameters

template←	Id of the event template.
ld	

Returns

Number of events using this event template.

14.15.3.81 templatesBasedOnRelationTemplate()

Get the number of relations based on this relation template.

Parameters

template↔	ld of the relation template.
ld	

Returns

Number of relations using this relation template.

14.15.3.82 updateEventsWithTemplate()

Update events based on the changed template.

Parameters

nged template.

14.15.3.83 writeConfig()

```
bool FamilyTree::writeConfig ( {\tt const\ std::string\ \&\ \it newPath\ )}
```

Write to the configuration file and before add new one if it is not present.

Parameters

```
newPath Path to the new project.
```

Returns

True if it was added. False if it was already present.

14.15.4 Member Data Documentation

14.15.4.1 allEvents

```
std::map<size_t, std::unique_ptr<Event> > FamilyTree::allEvents_ [private]
```

All the events in the tree.

14.15.4.2 allFiles_

```
std::map<size_t, std::unique_ptr<File> > FamilyTree::allFiles_ [private]
```

All files in app.

14.15.4.3 allMedia

```
\verb|std::map| < \verb|size_t|, | \verb|std::unique_ptr| < \verb|File| > | Family Tree::all Media_ [private]|
```

All media in app.

14.15.4.4 allNotes_

```
\verb|std::map| < \verb|size_t|, | \verb|std::unique_ptr| < \verb|File| > | Family Tree::all Notes_ [private]|
```

All notes in app.

14.15.4.5 allPersons_

```
std::map<size_t, std::unique_ptr<Person> > FamilyTree::allPersons_ [private]
```

Map of all persons in family tree.

14.15.4.6 allRelations_

```
std::map<size_t, std::unique_ptr<Relation> > FamilyTree::allRelations_ [private]
```

All relations in the tree.

14.15.4.7 event_index_

```
size_t FamilyTree::event_index_ [private]
```

Last free index for event. Always start from 1.

14.15.4.8 file_index_

```
size_t FamilyTree::file_index_ [private]
```

Last free id for file. Always start from 1.

14.15.4.9 mainPerson_

```
Person* FamilyTree::mainPerson_ [private]
```

Main person showing as the centre of the tree.

14.15.4.10 media_index_

```
size_t FamilyTree::media_index_ [private]
```

Last free id for media. Always start from 1.

14.15.4.11 note_index_

```
size_t FamilyTree::note_index_ [private]
```

Last free id for note. Always start from 1.

14.15.4.12 openHelp

```
bool FamilyTree::openHelp [private]
```

If help window should be shown.

14.15.4.13 parser_

```
Parser FamilyTree::parser_ [private]
```

Parser for working with locally stored database.

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14.15.4.14 person_index_

```
size_t FamilyTree::person_index_ [private]
```

Last free id for person. Always start from 1.

14.15.4.15 projectPaths

```
std::vector<std::string> FamilyTree::projectPaths [private]
```

Paths to existing projects.

14.15.4.16 relation_index_

```
size_t FamilyTree::relation_index_ [private]
```

Last free index for relation.

14.15.4.17 savedChanges_

```
bool FamilyTree::savedChanges_ [private]
```

If all changes were saved or not.

14.15.4.18 settings_

```
Settings FamilyTree::settings_ [private]
```

Settings of the app.

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

- · core/family_tree.h
- core/family_tree.cpp

14.16 File Class Reference

Meta-data about one file (media or note). Its real path is [id]-[filename].

```
#include <family_tree_items.h>
```

Public Member Functions

• File ()

Default constructor.

- const std::string & getFilename () const
- size_t getId () const
- std::string getRealName () const
- void readJson (const Json::Value &value)
- void setFilename (const std::string &fileName)
- void setId (size_t id)

Private Attributes

```
• std::string filename_
```

File name.

size_t id_

Id of the file.

14.16.1 Detailed Description

Meta-data about one file (media or note). Its real path is [id]-[filename].

14.16.2 Constructor & Destructor Documentation

14.16.2.1 File()

```
File::File ( )
```

Default constructor.

14.16.3 Member Function Documentation

14.16.3.1 getFilename()

```
const std::string & File::getFilename ( ) const
```

Get the file name.

Returns

Constant reference to the file name.

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14.16.3.2 getId()

```
size_t File::getId ( ) const
```

Get the id of the file.

Returns

ld of the file.

14.16.3.3 getRealName()

```
std::string File::getRealName ( ) const
```

Get the real name of the file. Which is [id]-[filename]

Returns

The real name of the file.

14.16.3.4 readJson()

Read the file meta-data from JSON value.

Parameters

value The JSON value of the file.

14.16.3.5 setFilename()

Set the file name.

Parameters

fileName | Given name of the file.

14.16.3.6 setId()

Set the id of the file.

Parameters

id Given id.

14.16.4 Member Data Documentation

14.16.4.1 filename_

```
std::string File::filename_ [private]
```

File name.

14.16.4.2 id_

```
size_t File::id_ [private]
```

ld of the file.

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

- core/family_tree_items.h
- core/family_tree_items.cpp

14.17 FileTreeltem Class Reference

TreeWidget Item for general file.

```
#include <graphics_items.h>
```

Inheritance diagram for FileTreeItem:



Public Member Functions

- FileTreeItem (VirtualDrive *drive, FamilyTree *FT, const Qlcon &icon, FileType type)
- FileTreeItem (size_t id, FamilyTree *FT, const Qlcon &icon, FileType type)
- void addFile (size_t id, const Qlcon &icon)
- void addSubDrive (const QString &folder)
- VirtualDrive * getDrive ()
- size_t getId ()
- bool isDirectory ()
- bool removeFolder ()
- bool rename (const QString &name)

Private Member Functions

void removeFile (size_t id)

Private Attributes

```
VirtualDrive * drive_
```

Drive presented in this folder.

• size_t fileId_

Id of the shown file.

• FamilyTree * FT_

Pointer to the family tree.

bool isDir_

If the file is directory or not.

FileType type_

Type of the file.

14.17.1 Detailed Description

TreeWidget Item for general file.

14.17.2 Constructor & Destructor Documentation

14.17.2.1 FileTreeltem() [1/2]

Construct this drive and all sub-drives.

Parameters

drive	Which drive is presented in this item.
FT	Pointer to the family tree.
icon	Which icon to show beside the text.
type	Type of the file to show.

14.17.2.2 FileTreeltem() [2/2]

Constructor for a new file.

Parameters

id	ld of the file.
FT	Pointer to the family tree.
icon	Which icon is shown besides files.
type	What type of files are shown.

14.17.3 Member Function Documentation

14.17.3.1 addFile()

Add file to this folder.

Parameters

id	ld of the file.
icon	Which icon to show besides the text.

14.17.3.2 addSubDrive()

Add sub drive to this drive.

Parameters

of the sub-folder.	folder
--------------------	--------

14.17.3.3 getDrive()

```
VirtualDrive * FileTreeItem::getDrive ( )
```

Get the pointer to the drive.

Returns

Pointer to the drive.

14.17.3.4 getId()

```
size_t FileTreeItem::getId ( )
```

Get the id of the file.

Returns

File id.

14.17.3.5 isDirectory()

```
bool FileTreeItem::isDirectory ( )
```

If te file is directory or not.

Returns

True if it is directory, false otherwise.

14.17.3.6 removeFile()

Remove file in this drive.

Parameters

```
id Id of the file.
```

14.17.3.7 removeFolder()

```
bool FileTreeItem::removeFolder ( )
```

Remove recursively all directories and files.

Returns

True if it is the root directory, false otherwise.

14.17.3.8 rename()

When this item is selected for renaming.

Parameters

name	Name for this folder.
------	-----------------------

Returns

True if this item was file, false otherwise.

14.17.4 Member Data Documentation

```
14.17.4.1 drive_
```

```
VirtualDrive* FileTreeItem::drive_ [private]
```

Drive presented in this folder.

14.17.4.2 fileId_

```
size_t FileTreeItem::fileId_ [private]
```

ld of the shown file.

14.17.4.3 FT_

```
FamilyTree* FileTreeItem::FT_ [private]
```

Pointer to the family tree.

14.17.4.4 isDir_

```
bool FileTreeItem::isDir_ [private]
```

If the file is directory or not.

14.17.4.5 type_

```
FileType FileTreeItem::type_ [private]
```

Type of the file.

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

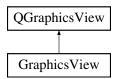
- · graphics/graphics items.h
- graphics/graphics_items.cpp

14.18 GraphicsView Class Reference

Class for creating QGraphicsView with using wheel for zoom in and out. And grabing by mouse moves the view.

```
#include <graphics_items.h>
```

Inheritance diagram for GraphicsView:



Public Member Functions

GraphicsView (QGraphicsScene *scene, QWidget *parent=nullptr)

Protected Member Functions

• void wheelEvent (QWheelEvent *event) override

14.18.1 Detailed Description

Class for creating QGraphicsView with using wheel for zoom in and out. And grabing by mouse moves the view.

14.18.2 Constructor & Destructor Documentation

14.18.2.1 GraphicsView()

Default constructor.

Parameters

scene	Which scene it is using.
parent	Which widget will be showing the view.

14.18.3 Member Function Documentation

14.18.3.1 wheelEvent()

Override the wheel event for scrolling.

Parameters

event	When scrolling occurrred.
-------	---------------------------

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

- · graphics/graphics items.h
- graphics/graphics_items.cpp

14.19 HelpDialog Class Reference

Dialog with text edit to show help or other texts.

```
#include <dialogs.h>
```

Inheritance diagram for HelpDialog:



Public Slots

• void openHelp (bool help)

Public Member Functions

- HelpDialog (FamilyTree *FT, QWidget *parent=nullptr)
- ∼HelpDialog ()

Default destructor.

Private Attributes

```
FamilyTree * FT_
```

Pointer to the family tree.

• Ui::HelpDialog * ui

User interface of the Qt framework.

14.19.1 Detailed Description

Dialog with text edit to show help or other texts.

14.19.2 Constructor & Destructor Documentation

14.19.2.1 HelpDialog()

```
HelpDialog::HelpDialog (
          FamilyTree * FT,
           QWidget * parent = nullptr ) [explicit]
```

Default constructor.

Parameters

FT	Pointer to the family tree.
parent	The Qt Widget parent.

14.19.2.2 ∼HelpDialog()

```
HelpDialog::~HelpDialog ( )
```

Default destructor.

14.19.3 Member Function Documentation

14.19.3.1 openHelp

```
void HelpDialog::openHelp (
          bool help ) [slot]
```

If help dialog should be opened at start-up.

Parameters

help Forwarding of check box in UI. True for not s	າowing.	
--	---------	--

14.19.4 Member Data Documentation

14.19.4.1 FT_

```
FamilyTree* HelpDialog::FT_ [private]
```

Pointer to the family tree.

14.19.4.2 ui

```
Ui::HelpDialog* HelpDialog::ui [private]
```

User interface of the Qt framework.

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

- · graphics/dialogs.h
- graphics/dialogs.cpp

14.20 HtmlExport Class Reference

Dialog for exporting HTML for one person and all persons.

```
#include <dialogs.h>
```

Inheritance diagram for HtmlExport:



Public Slots

- · void allAboveGenerations (bool all)
- · void allBelowGenerations (bool all)
- · void exportAllHtml ()

Export all persons into html.

void exportMainHtml ()

Export only main person to the html.

Public Member Functions

- HtmlExport (FamilyTree *FT, bool all, int up, int down, QWidget *parent=nullptr)
- ∼HtmlExport ()

Default destructor.

Private Attributes

• FamilyTree * FT_

Pointer to the family tree.

• Ui::HtmlExport * ui

Used Qt user interface.

14.20.1 Detailed Description

Dialog for exporting HTML for one person and all persons.

14.20.2 Constructor & Destructor Documentation

14.20.2.1 HtmlExport()

```
HtmlExport::HtmlExport (
          FamilyTree * FT,
          bool all,
          int up,
          int down,
           QWidget * parent = nullptr )
```

Default constructor.

Parameters

FT	Pointer to the used Family tree.
all	If the HTML export should include all persons or just the main person.
ир	How many generations upwards are being exported as of now.
down	How many generations downwards are being exported as of now.
parent	The Qt Widget parent.

14.20.2.2 ~HtmlExport()

```
HtmlExport::~HtmlExport ( )
```

Default destructor.

14.20.3 Member Function Documentation

14.20.3.1 allAboveGenerations

```
void \mbox{HtmlExport::allAboveGenerations} ( bool \mbox{all} ) [slot]
```

If all generations upward option was chosen or not.

Parameters

all True if it was checked.

14.20.3.2 allBelowGenerations

```
void \mbox{HtmlExport::allBelowGenerations} ( bool \mbox{all} ) [slot]
```

If all generations downward option was chosen or not.

Parameters

all True if it was checked.

14.20.3.3 exportAllHtml

```
void HtmlExport::exportAllHtml ( ) [slot]
```

Export all persons into html.

14.20.3.4 exportMainHtml

```
void HtmlExport::exportMainHtml ( ) [slot]
```

Export only main person to the html.

14.20.4 Member Data Documentation

```
14.20.4.1 FT_
```

```
FamilyTree* HtmlExport::FT_ [private]
```

Pointer to the family tree.

14.20.4.2 ui

```
Ui::HtmlExport* HtmlExport::ui [private]
```

Used Qt user interface.

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

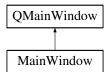
- graphics/dialogs.h
- graphics/dialogs.cpp

14.21 MainWindow Class Reference

Class representing main window using Qt library.

```
#include <mainwindow.h>
```

Inheritance diagram for MainWindow:



Public Slots

void addNewEvent ()

Show dialog for adding event.

• void addNewFile ()

Show dialog for adding file.

• void addNewFileFolder ()

Add new folder to the file tree.

void addNewMedia ()

Show dialog for adding media.

• void addNewMediaFolder ()

Add new folder to the media tree.

void addNewNote ()

Show dialog for adding note.

void addNewNoteFolder ()

Add new folder to the note tree.

void addNewPerson ()

Add new person to the family tree.

void addNewRelation ()

Add new relation to the person by opening dialog window.

- void allAboveGenerations (bool selected)
- void allBelowGenerations (bool selected)
- void changeGenerationsDown (int value)
- void changeGenerationsUp (int value)
- void checkStoreRefreshPersonsInfo ()

If any value in persons info tab was changed, check its value, store it and refresh ui elements.

void clearProjectFilter ()

Clear the project filter.

· void clearProjectPaths ()

Clear project paths.

• void disableFileFolderPrompt ()

Hide new folder edit for files and cancel button.

void disableMediaFolderPrompt ()

Hide new folder edit for media and cancel button.

void disableNoteFolderPrompt ()

Hide new folder edit for notes and cancel button.

- void editEvent (QTreeWidgetItem *item)
- void editRelation (QTreeWidgetItem *item)
- void editTag (QTreeWidgetItem *item=nullptr)
- · void enableFileFolderPrompt ()

Show new folder edit for files and cancel button.

void enableMediaFolderPrompt ()

Show new folder edit for media and cancel button.

void enableNoteFolderPrompt ()

Show new folder edit for notes and cancel button.

void exportCloseFamilyDiagramDialog ()

Open dialog for exporting close family diagram.

void exportHtml ()

Export whole HTML project to an output directory by opening a dialog.

void exportMainHtml ()

Export only main person html by opening a dialog.

void exportProject ()

Open dialog for exporting project.

void exportTemplates ()

Open dialog for exporting templates.

void exportTreeDiagramDialog ()

Open dialog for exporting family tree diagram.

• void filterProjectItems ()

Filter only matching items in project.

• void findPerson ()

Focus find in project view.

void fitTreeInView ()

Fit the tree view inside.

void importProject ()

Choose file to import from other project.

void importRootDir ()

Choose root directory of other project to import from.

void importTemplates ()

Choose file to import templates.

- void interractWithProjectItem (QTreeWidgetItem *item)
- void openBirthDateDialog ()

Open dialog for custom Birth Date.

· void openDeathDateDialog ()

Open dialog for custom Death Date.

void openEventTemplatesDialog ()

Open event templates dialog.

void openExistingProject ()

Open existing root directory of a project.

· void openGraphicSettings ()

Open dialog for graphic settings.

void openNewFamilyTreeProject ()

Open new empty project.

• void openRelationTemplatesDialog ()

Open relation templates dialog.

- void openSelectedFile (QTreeWidgetItem *item)
- void openSelectedMedia (QTreeWidgetItem *item)
- void openSelectedNote (QTreeWidgetItem *item)
- void promoteRelation ()

Promote current relation.

· void refreshDates ()

Refresh all dates in persons info tab.

void refreshEventTab ()

Refresh list with events.

· void refreshGraphics ()

Refresh all graphics.

void refreshProjectView ()

Refresh the whole project that is shown.

void refreshRelationTab ()

Refresh relations lists.

· void refreshTabsWithFiles ()

Refresh all files tabs.

void refreshTagsList ()

Refresh shown tags.

void removeEvent ()

Remove event from family tree.

void removeFileFolder ()

Remove file folder.

void removeMediaFolder ()

Remove media folder.

• void removeNoteFolder ()

Remove note folder.

• void removePerson ()

Remove main person.

· void removeRelation ()

Remove current relation.

void removeTag ()

Delete current tag selected on the person.

· void renameFile ()

Rename file or folder with files.

· void renameMedia ()

Rename media or folder with media.

void renameNote ()

Rename note or folder with notes.

- bool saveDatabase ()
- void saveGraphicsSetting (QColor probandColor, QColor promotedColor, QColor standardColor, QColor highlightedColor, int sizeX, int sizeY, QFont font, QColor lineColor, QColor textColor, int lineWidth, int rounding)
- void selectOlderGenerationOnly ()

De-select all other relation boxes other than older.

void selectSameGenerationOnly ()

De-select all other relation boxes other than same.

void selectYoungerGenerationOnly ()

De-select all other relation boxes other than younger.

- void setEnabledDeathAtributes (bool disabled)
- void setEventTabVisible ()

Hide or show the event tab.

void setFileTabVisible ()

Hide or show the file tab.

• void setGeneralTabVisible ()

Hide or show the general tab.

- void setMainPerson (size_t personId)
- void setMediaTabVisible ()

Hide or show the media tab.

• void setNoteTabVisible ()

Hide or show the note tab.

void setRelationTabVisible ()

Hide or show the relation tab.

void setTabEast ()

Set the setting of the tab to east.

void setTabNorth ()

Set the setting of the tab to north.

void setTabSouth ()

Set the setting of the tab to south.

void setTabWest ()

Set the setting of the tab to west.

• void showHelp ()

Show generic help.

void showRenameFile ()

Show prompt for renaming file.

· void showRenameMedia ()

Show prompt for renaming media.

void showRenameNote ()

Show prompt for renaming note.

void splitterChanged ()

When the splitter changed.

void switchNewTreeProject ()

Save tree and create new empty tree to show.

• void zoomIn ()

Zoom in on the family tree view.

void zoomOut ()

Zoom out of the family tree view.

Public Member Functions

- MainWindow (QWidget *parent=nullptr)
- ∼MainWindow ()

Default destructor, which deletes all dynamic attributes.

- bool exportCloseFamilyDiagram (double scale, const std::string &filename=EMPTY_STRING)
- bool exportTreeDiagram (double scale, const std::string &filename=EMPTY_STRING)
- std::pair< int, int > setNumberOfGenerations (int up, int down)

Static Public Member Functions

• static void openExternalFile (const std::string &fileURL)

Protected Member Functions

void closeEvent (QCloseEvent *event)

Private Member Functions

- void addGeneralFile (FileType type, const std::vector < std::string > &extensions, FileTreeItem *item)
- void addGeneralFolder (FileType type)
- void clearUi ()

Clear all UI elements.

• void connectAllSlots ()

Connect all slots to their signals.

- void editEvent (size_t id)
- · void editRelation (size_t id)
- void enableGeneralFolderPrompt (bool visible, FileType type)
- void enableGeneralFolderRenamePrompt (FileType type)
- bool exportGeneralDiagram (const QString &filename, QGraphicsScene *gscene, double scale=1)

- void drawCloseContainer (const std::vector < Relation * > &container, qreal sizeX, qreal sizeY, qreal top
 LeftX, qreal topLeftY, qreal lineX1, qreal lineX1, qreal lineX2, qreal lineY2, size_t partner, size_t mother,
 size_t father, int gap, bool movex, bool movey)
- · void drawCloseFamily ()
- void drawFamilyTree ()
- void drawGeneralGenerations (Person *p, qreal width, qreal midx, qreal midy, int horizontalGap, int vertical ← Gap, size_t barrier, const std::vector < size_t > &container, bool up, std::function < std::pair < size_t, size_t > (Person *, size_t, size_t) > numberFunc, std::function < void(Person *, qreal, qreal, qreal, int, int, size_t) > drawFunc)
- void drawOlderGenerations (Person *p, qreal width, qreal midx, qreal midy, int horizontalGap, int verticalGap, size t barrier)
- void drawPartner (greal canvasMidX, greal canvasMidY, int horizontalGap)
- void drawYoungerGenerations (Person *p, qreal width, qreal midx, qreal midy, int horizontalGap, int vertical
 Gap, size_t barrier)
- std::pair< size_t, size_t > generalGenerationNumber (Person *p, size_t soFar, size_t barrier, const std
 ::vector< size_t > &container, bool up, std::function< std::pair< size_t, size_t > (Person *, size_t, size_t)>
 func)
- · void loadSettings ()

Load the setting from configuration.

- std::pair < size_t, size_t > olderGenerationNumber (Person *p, int soFar, size_t barrier)
- void openCustomDateDialog (WrappedDate *date)
- void initializeProjectSubView (ProjectItem *parent, Person *person)
- void initializeProjectView ()

Initialize project view when loading new family tree.

- void openGeneralFile (QTreeWidgetItem *item, FileType type)
- void openGeneralProject (const std::string &dirPath)
- void refreshPersonsInfoTab ()

Refresh basic information about main person.

- void refreshProjectEventsView (ProjectItem *item, Person *person)
- void refreshProjectGeneralFilesView (const Qlcon &containerlcon, const QString &containerName, const QIcon &fileIcon, FileType type, ProjectItem *item, Person *person)
- void refreshProjectFilesView (ProjectItem *item, Person *person)
- void refreshProjectMediaView (ProjectItem *item, Person *person)
- void refreshProjectNoteView (ProjectItem *item, Person *person)
- void refreshProjectRelationsView (ProjectItem *item, Person *person)
- · void refreshUi ()

Refresh the whole UI (tabs, project and graphics).

- void removeGeneralFolder (FileType type)
- void renameGeneralFileItem (FileType type)
- void savePersonsInfo ()

Save all basic information about main person.

void setUiElements ()

Set all additional static widgets of the user interface.

- void showGeneralFiles (QTreeWidget *widget, VirtualDrive *root, FileType type)
- std::pair < size t, size t > youngerGenerationNumber (Person *p, size t soFar, size t barrier)

Private Attributes

int borderRadius_

Radius of the boxes.

QFont font

Used font for view.

FamilyTree FT

Family tree.

int genSizeDown_

How many generations to show in tree view down.

· int genSizeUp_

How many generations to show in tree view up.

QColor highlightedColor_

Color for highlighted boxes.

QPen linePen

Pen used for drawing lines.

QColor probandColor_

Color of proband.

• QGraphicsScene * scene

Scene shown on the graphical view.

int sizeX

X size of the person box.

int sizeY_

Y size of the person box.

QColor promotedColor_

Color for promoted father, mother and partner.

QColor standardColor_

Color for other relations.

QPen textPen

Pen used for texts.

• QGraphicsScene * treeScene

Tree view scene;.

• GraphicsView * treeView

Tree view graphics view.

• Ui::MainWindow * ui

Qt UI framework.

14.21.1 Detailed Description

Class representing main window using Qt library.

14.21.2 Constructor & Destructor Documentation

14.21.2.1 MainWindow()

Default constructor.

Parameters

t parent.
t parent.

14.21.2.2 ∼MainWindow()

```
{\tt MainWindow::}{\sim}{\tt MainWindow} ( )
```

Default destructor, which deletes all dynamic attributes.

14.21.3 Member Function Documentation

14.21.3.1 addGeneralFile()

```
void MainWindow::addGeneralFile (
    FileType type,
    const std::vector< std::string > & extensions,
    FileTreeItem * item ) [private]
```

Open add file dialog for a person. This is as general as it gets.

Parameters

type	Type of the file, that will be added.
extensions	Which extensions will be shown for creating empty file.
item	Which item is selected to put file.

14.21.3.2 addGeneralFolder()

Add folder to its type tree widget.

Parameters

type	What widget it should use.

14.21.3.3 addNewEvent

```
void MainWindow::addNewEvent ( ) [slot]
```

Show dialog for adding event.

14.21.3.4 addNewFile

```
void MainWindow::addNewFile ( ) [slot]
```

Show dialog for adding file.

14.21.3.5 addNewFileFolder

```
void MainWindow::addNewFileFolder ( ) [slot]
```

Add new folder to the file tree.

14.21.3.6 addNewMedia

```
void MainWindow::addNewMedia ( ) [slot]
```

Show dialog for adding media.

14.21.3.7 addNewMediaFolder

```
void MainWindow::addNewMediaFolder ( ) [slot]
```

Add new folder to the media tree.

14.21.3.8 addNewNote

```
void MainWindow::addNewNote ( ) [slot]
```

Show dialog for adding note.

14.21.3.9 addNewNoteFolder

```
void MainWindow::addNewNoteFolder ( ) [slot]
```

Add new folder to the note tree.

14.21.3.10 addNewPerson

```
void MainWindow::addNewPerson ( ) [slot]
```

Add new person to the family tree.

14.21.3.11 addNewRelation

```
void MainWindow::addNewRelation ( ) [slot]
```

Add new relation to the person by opening dialog window.

14.21.3.12 allAboveGenerations

Set to show all generations above.

Parameters

selected	If all generations should be shown.
----------	-------------------------------------

14.21.3.13 allBelowGenerations

Set to show all generations below.

Parameters

selected If all generations should be shown.
--

14.21.3.14 changeGenerationsDown

Change the number of shown relations below.

Parameters

value	How many generations to show.
-------	-------------------------------

14.21.3.15 changeGenerationsUp

Change the number of shown relations above.

Parameters

value	How many generations to show.
-------	-------------------------------

14.21.3.16 checkStoreRefreshPersonsInfo

```
void MainWindow::checkStoreRefreshPersonsInfo ( ) [slot]
```

If any value in persons info tab was changed, check its value, store it and refresh ui elements.

14.21.3.17 clearProjectFilter

```
void MainWindow::clearProjectFilter ( ) [slot]
```

Clear the project filter.

14.21.3.18 clearProjectPaths

```
void MainWindow::clearProjectPaths ( ) [slot]
```

Clear project paths.

14.21.3.19 clearUi()

```
void MainWindow::clearUi ( ) [private]
```

Clear all UI elements.

14.21.3.20 closeEvent()

When closing the window check if the project is saved or not.

Parameters

```
event | Called event.
```

14.21.3.21 connectAllSlots()

```
void MainWindow::connectAllSlots ( ) [private]
```

Connect all slots to their signals.

14.21.3.22 disableFileFolderPrompt

```
void MainWindow::disableFileFolderPrompt ( ) [slot]
```

Hide new folder edit for files and cancel button.

14.21.3.23 disableMediaFolderPrompt

```
void MainWindow::disableMediaFolderPrompt ( ) [slot]
```

Hide new folder edit for media and cancel button.

14.21.3.24 disableNoteFolderPrompt

```
void MainWindow::disableNoteFolderPrompt ( ) [slot]
```

Hide new folder edit for notes and cancel button.

14.21.3.25 drawCloseContainer()

```
void MainWindow::drawCloseContainer (
             const std::vector< Relation * > & container,
             qreal sizeX,
             qreal sizeY,
             qreal topLeftX,
             qreal topLeftY,
             qreal lineX1,
             qreal lineY1,
             qreal lineX2,
             greal lineY2,
             size_t partner,
             size_t mother,
             size_t father,
             int gap,
             bool movex,
             bool movey ) [private]
```

Draw generalized cell, line and all inside person items in close family view. Like this:

Parameters

container	Container of persons which will be drawn.
sizeX	Size of the cell in the x axis.
sizeY	Size of the cell in the y axis.
topLeftX	Top left point of the cell in the x axis.
topLeftY	Top left point of the cell in the y axis.
lineX1	Starting point of the line in x axis.
lineY1	Starting point of the line in y axis.
lineX2	Ending point of the line in x axis.
lineY2	Ending point of the line in y axis.
partner	Index of partner to use special color.
mother	Index of mother to use special color.
father	Index of father to use special color.
gap	Gap which is between boxes in cell.
movex	Whether to move boxes on the x line.
movey	Whether to move boxes on the y line.

14.21.3.26 drawCloseFamily()

```
void MainWindow::drawCloseFamily ( ) [private]
```

Draw close family to the graphics.

```
+----cell-----+
|gap|box|gap|box|gap|
+------+
+---+<-cell |
|gap| +-----+ <-- box
|box|----|proband|
|gap| +-----+
+---+ |
| +----cell------+
|gap|box|gap|box|gap|
```

14.21.3.27 drawFamilyTree()

```
void MainWindow::drawFamilyTree ( ) [private]
```

Draw family tree to the corresponding person.

14.21.3.28 drawGeneralGenerations()

Draw either top or bottom generation in tree.

Parameters

p	Current person.
width	Width of the place where will be the relations.

Parameters

midx	What is the middle in the x axis of the place.
midy	What is the middle in the y axis of the place.
horizontalGap	Min gap between boxes in the x axis.
verticalGap	Gap between generations.
barrier	How more generations to show.
container	Vector of relations to draw.
ир	If we are drawing upwards or downwards.
numberFunc	Function for computing the widths and depths of the trees.
drawFunc	Function to recursively call for drawing.

14.21.3.29 drawOlderGenerations()

```
void MainWindow::drawOlderGenerations (
    Person * p,
    qreal width,
    qreal midx,
    qreal midy,
    int horizontalGap,
    int verticalGap,
    size_t barrier ) [private]
```

Draw one family tree box and recursively make other.

Parameters

р	Which person we are drawing.
width	What is the x size where should the box take place.
midx	What is the middle in the x axis of the place.
midy	What is the middle in the y axis of the place.
horizontalGap	Min gap between boxes in the x axis.
verticalGap	Gap between generations.
barrier	How more generations to show.

14.21.3.30 drawPartner()

Draw partner (to the left of the main person) to the family tree if there is one.

Parameters

canvasMidX	Centre-point of the canvas.
canvasMidY	Centre-point of the canvas.
horizontalGap	Gap in between persons boxes.

14.21.3.31 drawYoungerGenerations()

Draw all younger relations to the tree diagram.

```
+---+ +---+ +---+
|box| |box| |box|
+---+ +---+ ----+
. . . |box| |box| . . .
. . . . +---+ +---+ . . . .
```

Parameters

p	Current person which is above.
width	Width of the place where will be the children drawn.
midx	What is the middle in the x axis of the place for children.
midy	What is the middle in the y axis of the place for children.
horizontalGap	Min gap between boxes in the x axis.
verticalGap	Gap between generations.
barrier	How more generations to show.

14.21.3.32 editEvent [1/2]

Edit event when clicking on it by opening a dialog window.

Parameters

item	1	Which item was clicked.

14.21.3.33 editEvent() [2/2]

```
void MainWindow::editEvent (
```

```
size_t id ) [private]
```

Edit event by its id.

Parameters

```
id Id of the event.
```

14.21.3.34 editRelation [1/2]

Edit relation when clicking on it by opening a dialog window.

Parameters

```
item Which item was clicked.
```

14.21.3.35 editRelation() [2/2]

Edit relation by its id.

Parameters

```
id Id of the relation.
```

14.21.3.36 editTag

Edit tag when clicking on it or creating new one.

Parameters

item Which item was selected, if any.

14.21.3.37 enableFileFolderPrompt

```
void MainWindow::enableFileFolderPrompt ( ) [slot]
```

Show new folder edit for files and cancel button.

14.21.3.38 enableGeneralFolderPrompt()

Show or hide new folder prompt.

Parameters

visible	If the prompt should be visible or not.
type	For which type we are showing/hiding the prompt.

14.21.3.39 enableGeneralFolderRenamePrompt()

Show rename file prompt.

Parameters

type Which	type is to be shown.
------------	----------------------

14.21.3.40 enableMediaFolderPrompt

```
void MainWindow::enableMediaFolderPrompt ( ) [slot]
```

Show new folder edit for media and cancel button.

14.21.3.41 enableNoteFolderPrompt

```
void MainWindow::enableNoteFolderPrompt ( ) [slot]
```

Show new folder edit for notes and cancel button.

14.21.3.42 exportCloseFamilyDiagram()

Export close family diagram.

Parameters

scale What is the scale for this pic		What is the scale for this picture.
	filename	Where the picture should be saved, if it is empty prompt a dialog to choose file.

Returns

If the export was successful or not.

14.21.3.43 exportCloseFamilyDiagramDialog

```
void MainWindow::exportCloseFamilyDiagramDialog ( ) [slot]
```

Open dialog for exporting close family diagram.

14.21.3.44 exportGeneralDiagram()

Export general picture of a diagram.

Parameters

filename	What is the output file path.
gscene	Which scene to use.
scale	That is set for this picture.

Returns

If the export was successful or not.

14.21.3.45 exportHtml

```
void MainWindow::exportHtml ( ) [slot]
```

Export whole HTML project to an output directory by opening a dialog.

14.21.3.46 exportMainHtml

```
void MainWindow::exportMainHtml ( ) [slot]
```

Export only main person html by opening a dialog.

14.21.3.47 exportProject

```
void MainWindow::exportProject ( ) [slot]
```

Open dialog for exporting project.

14.21.3.48 exportTemplates

```
void MainWindow::exportTemplates ( ) [slot]
```

Open dialog for exporting templates.

14.21.3.49 exportTreeDiagram()

Export tree diagram.

Parameters

scale	What is the scale for this picture.	1
filename	Where the picture should be saved, if it is empty prompt a dialog to choose file.	1

Returns

If the export was successful or not.

14.21.3.50 exportTreeDiagramDialog

```
void MainWindow::exportTreeDiagramDialog ( ) [slot]
```

Open dialog for exporting family tree diagram.

14.21.3.51 filterProjectItems

```
void MainWindow::filterProjectItems ( ) [slot]
```

Filter only matching items in project.

14.21.3.52 findPerson

```
void MainWindow::findPerson ( ) [slot]
```

Focus find in project view.

14.21.3.53 fitTreeInView

```
void MainWindow::fitTreeInView ( ) [slot]
```

Fit the tree view inside.

14.21.3.54 generalGenerationNumber()

Compute recursively the maximum number of younger or older generations for the given person.

Parameters

р	Given person.
soFar	What is the depth so far.
barrier	How many more generations to show.
container	Vector of relations in given direction.
ир	If the direction is up or not.
func	Which function to recursively call.

Returns

First is what is the width and second is the depth of the tree.

14.21.3.55 importProject

```
void MainWindow::importProject ( ) [slot]
```

Choose file to import from other project.

14.21.3.56 importRootDir

```
void MainWindow::importRootDir ( ) [slot]
```

Choose root directory of other project to import from.

14.21.3.57 importTemplates

```
void MainWindow::importTemplates ( ) [slot]
```

Choose file to import templates.

14.21.3.58 initializeProjectSubView()

Initialize all sub-folder for item in project.

Parameters

parent	Parent item holding these sub items.
person	To which person it is bounded to.

14.21.3.59 initializeProjectView()

```
void MainWindow::initializeProjectView ( ) [private]
```

Initialize project view when loading new family tree.

14.21.3.60 interractWithProjectItem

Show the project item upon clicking it. It depends on the type of the item. For files open the file (same for notes and media) for person select it as a main. For events and relations open dialog with editing them.

Parameters

item Which item was clicked on.

14.21.3.61 loadSettings()

```
void MainWindow::loadSettings ( ) [private]
```

Load the setting from configuration.

14.21.3.62 olderGenerationNumber()

Get the number of upper generations for a person.

Parameters

p	Which person we are looking at.
soFar	What is the number so far to the person p.
barrier	How more generations to show.

Returns

First is what is the maximum to the width and second is how high the tree is.

14.21.3.63 openBirthDateDialog

```
void MainWindow::openBirthDateDialog ( ) [slot]
```

Open dialog for custom Birth Date.

14.21.3.64 openCustomDateDialog()

Open custom date dialog for a date.

Parameters

date Pointer to the date, that is being edited.

14.21.3.65 openDeathDateDialog

```
void MainWindow::openDeathDateDialog ( ) [slot]
```

Open dialog for custom Death Date.

14.21.3.66 openEventTemplatesDialog

```
void MainWindow::openEventTemplatesDialog ( ) [slot]
```

Open event templates dialog.

14.21.3.67 openExistingProject

```
void MainWindow::openExistingProject ( ) [slot]
```

Open existing root directory of a project.

14.21.3.68 openExternalFile()

Open general file in an external app using QDesktopService if possible otherwise opening with a command.

Parameters

fileURL	URL to the file.
---------	------------------

14.21.3.69 openGeneralFile()

Open file after double clicking it.

Parameters

item	Which item was clicked.
type	What is the type of the file.

14.21.3.70 openGeneralProject()

Open general project by opening existing one from the list or new one.

Parameters

dirPath	Path to root directory of the project.
uirPalii	Pain to root directory of the project.

14.21.3.71 openGraphicSettings

```
void MainWindow::openGraphicSettings ( ) [slot]
```

Open dialog for graphic settings.

14.21.3.72 openNewFamilyTreeProject

```
void MainWindow::openNewFamilyTreeProject ( ) [slot]
```

Open new empty project.

14.21.3.73 openRelationTemplatesDialog

```
void MainWindow::openRelationTemplatesDialog ( ) [slot]
```

Open relation templates dialog.

14.21.3.74 openSelectedFile

Open file after double clicking it.

Parameters

```
item Which item was clicked on.
```

14.21.3.75 openSelectedMedia

Open media after double clicking it.

Parameters

item Which item was clicked on.

14.21.3.76 openSelectedNote

Open note after double clicking it.

Parameters

item Which item was clicked on.

14.21.3.77 promoteRelation

```
void MainWindow::promoteRelation ( ) [slot]
```

Promote current relation.

14.21.3.78 refreshDates

```
void MainWindow::refreshDates ( ) [slot]
```

Refresh all dates in persons info tab.

14.21.3.79 refreshEventTab

```
void MainWindow::refreshEventTab ( ) [slot]
```

Refresh list with events.

14.21.3.80 refreshGraphics

```
void MainWindow::refreshGraphics ( ) [slot]
```

Refresh all graphics.

14.21.3.81 refreshPersonsInfoTab()

```
void MainWindow::refreshPersonsInfoTab ( ) [private]
```

Refresh basic information about main person.

14.21.3.82 refreshProjectEventsView()

Refresh project view for events.

Parameters

item	Group item for all events.
person	For which person we are showing events.

14.21.3.83 refreshProjectFilesView()

Refresh project view for files.

Parameters

item	Group item for all files.
person	For which person we are showing files.

14.21.3.84 refreshProjectGeneralFilesView()

```
void MainWindow::refreshProjectGeneralFilesView (
    const QIcon & containerIcon,
    const QString & containerName,
    const QIcon & fileIcon,
    FileType type,
    ProjectItem * item,
    Person * person ) [private]
```

Refresh project view with general files.

Parameters

containerlcon	Icon of the container having all files.
containerName	Name of the container having all files.
fileIcon	Icon for the file itself.
type	Type of the file.
item	Which item is the container.
person	To which person these containers are bounded.

14.21.3.85 refreshProjectMediaView()

Refresh project view for media.

Parameters

item	Group item for all media.
person	For which person we are showing media.

14.21.3.86 refreshProjectNoteView()

Refresh project view for notes.

Parameters

item	Group item for all notes.
person	For which person we are showing notes.

14.21.3.87 refreshProjectRelationsView()

Refresh project view for relations.

Parameters

item	Group item for all relations.
person	For which person we are showing relations.

14.21.3.88 refreshProjectView

```
void MainWindow::refreshProjectView ( ) [slot]
```

Refresh the whole project that is shown.

14.21.3.89 refreshRelationTab

```
void MainWindow::refreshRelationTab ( ) [slot]
```

Refresh relations lists.

14.21.3.90 refreshTabsWithFiles

```
void MainWindow::refreshTabsWithFiles ( ) [slot]
```

Refresh all files tabs.

14.21.3.91 refreshTagsList

```
void MainWindow::refreshTagsList ( ) [slot]
```

Refresh shown tags.

14.21.3.92 refreshUi()

```
void MainWindow::refreshUi ( ) [private]
```

Refresh the whole UI (tabs, project and graphics).

14.21.3.93 removeEvent

```
void MainWindow::removeEvent ( ) [slot]
```

Remove event from family tree.

14.21.3.94 removeFileFolder

```
void MainWindow::removeFileFolder ( ) [slot]
```

Remove file folder.

14.21.3.95 removeGeneralFolder()

Remove folder from the tree widget.

Parameters

type Which type is used. To determine which tree widget is used.

14.21.3.96 removeMediaFolder

```
void MainWindow::removeMediaFolder ( ) [slot]
```

Remove media folder.

14.21.3.97 removeNoteFolder

```
void MainWindow::removeNoteFolder ( ) [slot]
```

Remove note folder.

14.21.3.98 removePerson

```
void MainWindow::removePerson ( ) [slot]
```

Remove main person.

14.21.3.99 removeRelation

```
void MainWindow::removeRelation ( ) [slot]
```

Remove current relation.

14.21.3.100 removeTag

```
void MainWindow::removeTag ( ) [slot]
```

Delete current tag selected on the person.

14.21.3.101 renameFile

```
void MainWindow::renameFile ( ) [slot]
```

Rename file or folder with files.

14.21.3.102 renameGeneralFileItem()

Rename general file tree item.

Parameters

type Which type is used. To determine which tree widget is used.

14.21.3.103 renameMedia

```
void MainWindow::renameMedia ( ) [slot]
```

Rename media or folder with media.

14.21.3.104 renameNote

```
void MainWindow::renameNote ( ) [slot]
```

Rename note or folder with notes.

14.21.3.105 saveDatabase

```
bool MainWindow::saveDatabase ( ) [slot]
```

Save the database.

Returns

If the database was stored.

14.21.3.106 saveGraphicsSetting

Save graphics settings from its dialog.

Parameters

probandColor	Color used for proband.
promotedColor	Color for promoted Relations.
standardColor	Standard color.
highlightedColor	Highlighted color.
sizeX	Size of the box in x axis.
sizeY	Size of the box in y axis.
font	Used font for the text in the box.
lineColor	Color for lines.
textColor	Color for texts.
lineWidth	Width of the lines.
rounding	Rounding of the boxes.

14.21.3.107 savePersonsInfo()

```
void MainWindow::savePersonsInfo ( ) [private]
```

Save all basic information about main person.

14.21.3.108 selectOlderGenerationOnly

```
void MainWindow::selectOlderGenerationOnly ( ) [slot]
```

De-select all other relation boxes other than older.

14.21.3.109 selectSameGenerationOnly

```
void MainWindow::selectSameGenerationOnly ( ) [slot]
```

De-select all other relation boxes other than same.

14.21.3.110 selectYoungerGenerationOnly

```
void MainWindow::selectYoungerGenerationOnly ( ) [slot]
```

De-select all other relation boxes other than younger.

14.21.3.111 setEnabledDeathAtributes

```
\begin{tabular}{ll} \beg
```

Change the visibility of all widgets related to death attributes.

Parameters

disabled	If the widgets should be disabled or not.
----------	---

14.21.3.112 setEventTabVisible

```
void MainWindow::setEventTabVisible ( ) [slot]
```

Hide or show the event tab.

14.21.3.113 setFileTabVisible

```
void MainWindow::setFileTabVisible ( ) [slot]
```

Hide or show the file tab.

14.21.3.114 setGeneralTabVisible

```
void MainWindow::setGeneralTabVisible ( ) [slot]
```

Hide or show the general tab.

14.21.3.115 setMainPerson

Set the main person by clicking on graphics item.

Parameters

person⊷	Person id in the clicked box.
ld	

14.21.3.116 setMediaTabVisible

```
void MainWindow::setMediaTabVisible ( ) [slot]
```

Hide or show the media tab.

14.21.3.117 setNoteTabVisible

```
void MainWindow::setNoteTabVisible ( ) [slot]
```

Hide or show the note tab.

14.21.3.118 setNumberOfGenerations()

Set the number of generations to show.

Parameters

ир	Number of generations above (older).
down	Number of generations below (younger).

Returns

Values that were set before (in the same order, first up then down).

14.21.3.119 setRelationTabVisible

```
void MainWindow::setRelationTabVisible ( ) [slot]
```

Hide or show the relation tab.

14.21.3.120 setTabEast

```
void MainWindow::setTabEast ( ) [slot]
```

Set the setting of the tab to east.

14.21.3.121 setTabNorth

```
void MainWindow::setTabNorth ( ) [slot]
```

Set the setting of the tab to north.

14.21.3.122 setTabSouth

```
void MainWindow::setTabSouth ( ) [slot]
```

Set the setting of the tab to south.

14.21.3.123 setTabWest

```
void MainWindow::setTabWest ( ) [slot]
```

Set the setting of the tab to west.

14.21.3.124 setUiElements()

```
void MainWindow::setUiElements ( ) [private]
```

Set all additional static widgets of the user interface.

14.21.3.125 showGeneralFiles()

```
void MainWindow::showGeneralFiles (
          QTreeWidget * widget,
          VirtualDrive * root,
          FileType type ) [private]
```

Show files from container to its widget.

Parameters

widget	QTreeWidget to show all the files.
root	Root folder of all files.
type	Which type of files are going to be displayed.

14.21.3.126 showHelp

```
void MainWindow::showHelp ( ) [slot]
```

Show generic help.

14.21.3.127 showRenameFile

```
void MainWindow::showRenameFile ( ) [slot]
```

Show prompt for renaming file.

14.21.3.128 showRenameMedia

```
void MainWindow::showRenameMedia ( ) [slot]
```

Show prompt for renaming media.

14.21.3.129 showRenameNote

```
void MainWindow::showRenameNote ( ) [slot]
```

Show prompt for renaming note.

14.21.3.130 splitterChanged

```
void MainWindow::splitterChanged ( ) [slot]
```

When the splitter changed.

14.21.3.131 switchNewTreeProject

```
void MainWindow::switchNewTreeProject ( ) [slot]
```

Save tree and create new empty tree to show.

14.21.3.132 youngerGenerationNumber()

Compute the maximum number of younger generations of the person.

Parameters

р	Given person.
soFar	What is the depth so far.
barrier	How more generations to show.

Returns

First is what is the maximum to the width and second is how deep the tree is.

14.21.3.133 zoomln

```
void MainWindow::zoomIn ( ) [slot]
```

Zoom in on the family tree view.

14.21.3.134 zoomOut

```
void MainWindow::zoomOut ( ) [slot]
```

Zoom out of the family tree view.

14.21.4 Member Data Documentation

14.21.4.1 borderRadius_

```
int MainWindow::borderRadius_ [private]
```

Radius of the boxes.

14.21.4.2 font_

```
QFont MainWindow::font_ [private]
```

Used font for view.

14.21.4.3 FT

```
FamilyTree MainWindow::FT [private]
```

Family tree.

14.21.4.4 genSizeDown_

```
int MainWindow::genSizeDown_ [private]
```

How many generations to show in tree view down.

14.21.4.5 genSizeUp_

```
int MainWindow::genSizeUp_ [private]
```

How many generations to show in tree view up.

14.21.4.6 highlightedColor_

QColor MainWindow::highlightedColor_ [private]

Color for highlighted boxes.

14.21.4.7 linePen

```
QPen MainWindow::linePen_ [private]
```

Pen used for drawing lines.

14.21.4.8 probandColor_

```
QColor MainWindow::probandColor_ [private]
```

Color of proband.

14.21.4.9 promotedColor_

```
QColor MainWindow::promotedColor_ [private]
```

Color for promoted father, mother and partner.

14.21.4.10 scene

QGraphicsScene* MainWindow::scene [private]

Scene shown on the graphical view.

14.21.4.11 sizeX_

int MainWindow::sizeX_ [private]

X size of the person box.

14.21.4.12 sizeY_

int MainWindow::sizeY_ [private]

Y size of the person box.

14.21.4.13 standardColor_

QColor MainWindow::standardColor_ [private]

Color for other relations.

14.21.4.14 textPen_

QPen MainWindow::textPen_ [private]

Pen used for texts.

14.21.4.15 treeScene

QGraphicsScene* MainWindow::treeScene [private]

Tree view scene;.

14.21.4.16 treeView

GraphicsView* MainWindow::treeView [private]

Tree view graphics view.

14.21.4.17 ui

Ui::MainWindow* MainWindow::ui [private]

Qt UI framework.

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

- · graphics/mainwindow.h
- graphics/mainwindow.cpp
- graphics/mainwindow_slots.cpp

14.22 Parser Class Reference

Main class for working with the database.

```
#include <file_parser.h>
```

Public Member Functions

• Parser ()

Default constructor.

- void clear ()

Clear stored data.

- bool containsBackupFile (std::string &backupFile)
- · bool copyFile (const std::string &filePath, const std::string &dir, std::string &fileName, size_t id)
- void createEmptyFile (const std::string &dir, const std::string &fileName)
- std::string createResourcesDir (const std::string &target)
- std::string getAbsoluteFilePath (const std::string &dir, const std::string &fileName) const
- void getFileUrl (const std::string &dir, const std::string &fileName, std::string &fileUrl) const
- bool isRootDirectorySet ()
- void log (const std::string &error)
- void makeNewDatabase (const std::string &dirPath)
- std::pair< bool, std::vector< std::string >> readConfig ()
- bool readJSONFile (const std::string &fileName, Json::Value &root, bool inDatabase=true)
- void removeBackup ()

Remove backup files if there is any.

- void removeFile (const std::string &filename, const std::string &dir)
- · void renameFile (const std::string &originalName, const std::string &changedName, const std::string &dir)
- void restoreBackup (const std::string &backupFile)
- bool setDatabase (const std::string &dirPath)
- void writeConfig (bool help)
- void writeConfig (const std::vector< std::string > &rootPaths, bool help)
- void writeHtml (const std::string &html, const std::string &output)
- void writeHtml (const std::string &html, const std::string &dirPath, const std::string &filename)
- void writeJSON (const std::string &data, const std::string &file, bool inDatabase=true)

Private Member Functions

- bool containsBackup (std::string &backupFile, const std::string &filename)
- void createAllDirs ()

Create all (empty) directories in the root directory.

• void createJsonFile (const std::string &fileName)

Private Attributes

14.22.1 Detailed Description

Main class for working with the database.

14.22.2 Constructor & Destructor Documentation

14.22.2.1 Parser()

```
Parser::Parser ( )
```

Default constructor.

14.22.3 Member Function Documentation

14.22.3.1 checkFileConsistency()

Check the consistency of files.

Parameters

databa	Which files are stored in database, these will be removed from the list if found.
found	Files found and not present in database.
dir	Which directory to look into.

14.22.3.2 clear()

```
void Parser::clear ( )
```

Clear stored data.

14.22.3.3 containsBackup()

If there is backup for this file-name.

Parameters

backupFile	If this backup file exists put there the name of it.
filename	Name of the file checked for having backup.

Returns

True if the backup exists.

14.22.3.4 containsBackupFile()

If the database store some backup files, which may be used. Note there can be only one backup file (when the app is working properly).

Parameters

backupFile	If there is backup there will be stored the name of the file.
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Returns

True if there is a backup file.

14.22.3.5 copyFile()

Create a new file by copying existing file on the disk.

Parameters

filePath	Path to the original file on the disk.
dir	Which directory to use in database of the root directory.
fileName	Is the name of the file in directory. Use for return value.
id	Id of the new file, to create the real name.

Returns

True if the process was successful, false otherwise.

14.22.3.6 createAllDirs()

```
void Parser::createAllDirs ( ) [private]
```

Create all (empty) directories in the root directory.

14.22.3.7 createEmptyFile()

Create an empty file.

Parameters

dir	Which directory in database to use.
fileName	What is the real file name in its directory.

14.22.3.8 createJsonFile()

Create an empty JSON file.

Parameters

fileName	Name of the file in the root directory.
----------	---

14.22.3.9 createResourcesDir()

Create resource file for diagrams for HTML export.

Parameters

target Where the resource directory should be (either a path to the directory or an html file).

Returns

String representing the path to the resources directory.

14.22.3.10 getAbsoluteFilePath()

Get the absolute path to the file in database.

Parameters

dir	Which directory should have the file.
fileName	What is the file-name in its directory.

Returns

String representing the absolute path.

14.22.3.11 getFileUrl()

Get the url to the file for opening the file. Format: ' file://[file path]'.

Parameters

dir	Which directory should have the file.
fileName	What is the file-name in its directory.
fileUrl	String representing the URL in specified format.

14.22.3.12 isRootDirectorySet()

```
bool Parser::isRootDirectorySet ( )
```

Whether the directory has been already set.

Returns

True if the directory was already chosen.

14.22.3.13 log()

Log error to the error file.

Parameters

```
error What error occurred.
```

14.22.3.14 makeNewDatabase()

```
void Parser::makeNewDatabase ( {\tt const~std::string~\&~dirPath~)}
```

Make new empty database. Create all directories and files.

Parameters

dir	Path	Path to the chosen root directory.
-----	------	------------------------------------

14.22.3.15 readConfig()

```
std::pair< bool, std::vector< std::string > > Parser::readConfig ( )
```

Read config file if it exists and return vector of all saved paths.

Returns

If help should be shown and vector of strings representing paths to the directories.

14.22.3.16 readJSONFile()

Load the content of JSON file to Json::Value format.

Parameters

fileName	File in the root directory to be used.
root	Where to store parsed data from the file.
inDatabase	If the file is in database or not, if it is not, then it is for import.

Returns

True if the parsing was successful. False otherwise.

14.22.3.17 removeBackup()

```
void Parser::removeBackup ( )
```

Remove backup files if there is any.

14.22.3.18 removeFile()

Remove file with given name in given directory.

Parameters

filename	Name of the file.
dir	Given directory with the file.

14.22.3.19 renameFile()

Rename a file in its directory.

Parameters

originalName	Original name of the file.
changedName	New changed name of the file.
dir	Directory where the file is.

14.22.3.20 restoreBackup()

Restore backup file.

Parameters

backupFile	Which backup file is going to be restored.

14.22.3.21 setDatabase()

```
bool Parser::setDatabase ( {\tt const\ std::string\ \&\ \textit{dirPath}\ )}
```

Set the root directory and check its content.

Parameters

dirPath Path to the	root directory.
---------------------	-----------------

Returns

True if all files and directories exist.

14.22.3.22 writeConfig() [1/2]

```
void Parser::writeConfig (
          bool help )
```

Write only current project path to the configuration.

Parameters

```
help If help window should be shown at the start-up.
```

14.22.3.23 writeConfig() [2/2]

Write given paths to the root directories to the configuration file.

Parameters

rootPaths	Vector of all paths to the directories.
help	If help window should be shown at the start-up.

14.22.3.24 writeHtml() [1/2]

Write HTML text to an output file (or for CSS).

Parameters

html	HTML text to put in an output file.
dirPath	Path to the root directory.
filename	Name of the file in root directory.

14.22.3.25 writeHtml() [2/2]

Write HTML text to an output file (or for CSS).

Parameters

html	HTML text to put in an output file.
output	Output file path.

14.22.3.26 writeJSON()

Write data in JSON formatting to its file. Before create a backup and after saving delete the backup.

Parameters

data	Preprocessed JSON format string of data.
file	The name of the JSON file in the root directory.
inDatabase	If the file is in database or not, if it is not it is for export.

14.22.4 Member Data Documentation

14.22.4.1 configPath_

```
std::filesystem::path Parser::configPath_ [private]
```

Path to the configuration file.

14.22.4.2 root

```
std::filesystem::path Parser::root_ [private]
```

Path to the root directory.

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

- · core/file_parser.h
- · core/file_parser.cpp

14.23 Person Class Reference

One person in the family tree.

```
#include <person.h>
```

Public Member Functions

• Person ()

Default constructor.

- void addEvent (size t id)
- void addRelation (size_t id)
- void addTag (const std::string &tag, const std::string &value)
- WrappedDate * birthDate ()
- WrappedDate * deathDate ()
- std::pair< bool, const std::string & > existsTag (const std::string &tag) const
- void exportJson (std::ostream &os, bool includingEvents, bool includingRelations)
- const std::string & getAfterTitle () const
- · const WrappedDate & getBirthDate () const
- · const std::string & getBirthPlace () const
- const WrappedDate & getDeathDate () const
- · const std::string & getDeathPlace () const
- const std::vector< size_t > & getEvents () const
- size_t getFather () const
- std::string getFullName () const
- const VirtualDrive & getFilesRoot (FileType type=GENERAL_FILE) const
- VirtualDrive * getFilesRootPointer (FileType type)
- const std::string & getFrontTitle () const
- Gender getGender () const
- size_t getId () const
- const std::string & getMaidenName () const
- size_t getMother () const
- const std::string & getName () const
- size t getPartner () const
- const std::vector< size_t > & getRelations () const
- const std::string & getSurname () const
- const std::vector< std::pair< std::string, std::string > > & getTags () const

- void importJson (const Json::Value &value)
- bool isAlive () const
- void printHtml (std::ostream &os)
- void promoteRelation (size_t id, Trait type)
- void readJson (const Json::Value &value)
- void removeEvent (size t id)
- · void removeRelation (size_t id)
- void removeTag (const std::string &tag)
- void setAfterTitle (const std::string &title)
- void setBirthDate (int y, int m, int d)
- std::string & setBirthPlace ()
- void setDeathDate (int y, int m, int d)
- std::string & setDeathPlace ()
- void setFather (size_t father)
- void setFilesRoot (const VirtualDrive &drive, FileType type=GENERAL_FILE, size_t plusIndex=0)
- void setFrontTitle (const std::string &title)
- void setGender (Gender g)
- void setId (size_t id)
- void setLives (bool lives)
- std::string & setMaidenName ()
- void setMother (size_t mother)
- std::string & setName ()
- void setPartner (size_t id)
- std::string & setSurname ()
- std::string str () const
- void updateSpecialRelation (size_t relld, Trait trait)

Private Attributes

WrappedDate dateOfBirth_

Date of birth.

WrappedDate dateOfDeath

Date of death.

std::vector< size_t > events_

All events ids (from Family Tree) of the person.

size t father

Index of relation with fatherhood trait.

Gender gender_

Gender of the person.

size_t id_

Id of the person.

bool lives

If the person is alive.

std::string maidenName_

Maiden name of the person. Usually for a married woman.

size t mother

Index of relation with motherhood trait.

std::string name_

Name of the person.

size t partner

Id of the partnership relation.

std::string placeOfBirth_

Place of birth.

std::string placeOfDeath_

Place of death.

std::vector< size_t > relations_

All relations ids (from Family Tree).

· VirtualDrive rootFileDrive_

Root drive for files.

VirtualDrive rootMediaDrive

Root drive for media.

VirtualDrive rootNoteDrive_

Root drive for notes.

• std::string surname_

Surname of the person.

std::vector< std::pair< std::string, std::string > > tags_

Persons tags. First is the tag itself and second is the value.

std::string titleAfter

Title that is after the name.

std::string titleInFront_

Title that is in front of a name.

14.23.1 Detailed Description

One person in the family tree.

14.23.2 Constructor & Destructor Documentation

14.23.2.1 Person()

```
Person::Person ( )
```

Default constructor.

14.23.3 Member Function Documentation

14.23.3.1 addEvent()

Add new event as its id.

Parameters

id Its id.

14.23.3.2 addRelation()

```
void Person::addRelation ( size\_t id)
```

Add new general relation as its id.

Parameters

```
id Its id.
```

14.23.3.3 addTag()

Add tag to the person.

Parameters

tag	Used tag.
value	Value of the tag.

14.23.3.4 birthDate()

```
WrappedDate * Person::birthDate ( )
```

Get the pointer to the birth date.

Returns

Pointer to the birth date.

14.23.3.5 deathDate()

```
WrappedDate * Person::deathDate ( )
```

Get the pointer to the death date.

Returns

Pointer to the death date.

14.23.3.6 existsTag()

If there exists value with this tag.

Parameters

tag	Given tag.
-----	------------

Returns

True if it exists and then the value.

14.23.3.7 exportJson()

```
void Person::exportJson (
          std::ostream & os,
          bool includingEvents,
          bool includingRelations )
```

Export this person.

Parameters

os	Given output stream.
includingEvents	If events should be included.
includingRelations	If relations should be included.

14.23.3.8 getAfterTitle()

```
const std::string & Person::getAfterTitle ( ) const
```

Get the title after the name.

Returns

Constant reference to the title.

14.23.3.9 getBirthDate()

```
const WrappedDate & Person::getBirthDate ( ) const
```

Get the date of birth.

Returns

Date of birth.

14.23.3.10 getBirthPlace()

```
const std::string & Person::getBirthPlace ( ) const
```

Get the string of place of birth.

Returns

Constant reference to the string of the place of birth.

14.23.3.11 getDeathDate()

```
const WrappedDate & Person::getDeathDate ( ) const
```

Get the date of death.

Returns

Date of death.

14.23.3.12 getDeathPlace()

```
const std::string & Person::getDeathPlace ( ) const
```

Get the string representing the place of death.

Returns

String representing the place of death.

14.23.3.13 getEvents()

```
const std::vector< size_t > & Person::getEvents ( ) const
```

Get constant reference to the list of all events.

Returns

List of events ids.

14.23.3.14 getFather()

```
size_t Person::getFather ( ) const
```

Get the index of fatherhood relation representing father.

Returns

Index of the fatherhood relation.

14.23.3.15 getFilesRoot()

Get constant reference to the root drive of files.

Parameters

type	What type of files.
------	---------------------

Returns

Root drive for given file type.

14.23.3.16 getFilesRootPointer()

Get the pointer to the files root drive.

Parameters

```
type Type of the files.
```

Returns

Pointer to the root drive.

14.23.3.17 getFrontTitle()

```
const std::string & Person::getFrontTitle ( ) const
```

Get the title in front.

Returns

Constant reference to the title.

14.23.3.18 getFullName()

```
std::string Person::getFullName ( ) const
```

Get the full name of a person in order: "Surname + MaidenName + Name".

Returns

Full name of a person.

14.23.3.19 getGender()

```
Gender Person::getGender ( ) const
```

Get the gender of the person.

Returns

Person's gender.

14.23.3.20 getId()

```
size_t Person::getId ( ) const
```

Get the id of the person.

Returns

The id of the person.

14.23.3.21 getMaidenName()

```
const std::string & Person::getMaidenName ( ) const
```

Get the maiden name.

Returns

Constant reference to the maiden name.

14.23.3.22 getMother()

```
size_t Person::getMother ( ) const
```

Get the index of motherhood relation representing mother.

Returns

Index of the motherhood relation.

14.23.3.23 getName()

```
const std::string & Person::getName ( ) const
```

Get the name of the person.

Returns

Constant reference to the name.

14.23.3.24 getPartner()

```
size_t Person::getPartner ( ) const
```

Get the id of the partner.

Returns

Id of the partnership relation.

14.23.3.25 getRelations()

```
const std::vector< size_t > & Person::getRelations ( ) const
```

Get constant reference to the list of all relations.

Returns

List of relations ids.

14.23.3.26 getSurname()

```
const std::string & Person::getSurname ( ) const
```

Get the surname of the person.

Returns

Constant reference to the surname.

14.23.3.27 getTags()

```
const std::vector< std::pair< std::string, std::string > > & Person::getTags ( ) const
```

Get all tags.

Returns

Constant reference to the tags container.

14.23.3.28 importJson()

Import person from single file JSON. Some values may not be present from the import.

Parameters

value JSON value.

14.23.3.29 isAlive()

```
bool Person::isAlive ( ) const
```

If the person is alive or not.

Returns

True if the person lives.

14.23.3.30 printHtml()

```
void Person::printHtml ( {\tt std::ostream~\&~os~)}
```

Print person details to an output in HTML syntax.

Parameters

```
os Output stream.
```

14.23.3.31 promoteRelation()

Promote relation to the main one. If it is already promoted de-promote it.

Parameters

id	Of the relation.
type	Type of the relation.

14.23.3.32 readJson()

Read data from JSON to this person.

Parameters

value	Loaded JSON data from the file.
-------	---------------------------------

14.23.3.33 removeEvent()

Remove event if the person has it (by its id).

Parameters

```
id Its id.
```

14.23.3.34 removeRelation()

Remove relation if the person has it (by its id) that includes children and other special relations.

Parameters

```
id Its id.
```

14.23.3.35 removeTag()

Remove tag from the person if it exists.

Parameters

```
tag Which tag will be removed.
```

14.23.3.36 setAfterTitle()

Set the title after the name.

Parameters

title	The new title.
-------	----------------

14.23.3.37 setBirthDate()

```
void Person::setBirthDate (
    int y,
    int m,
    int d)
```

Set the exact birth date.

Parameters

d	Number of day.
m	Number of month.
У	Number of year.

14.23.3.38 setBirthPlace()

```
std::string & Person::setBirthPlace ( )
```

Set the birth place by giving reference to the string.

Returns

Reference to the birth place.

14.23.3.39 setDeathDate()

```
void Person::setDeathDate (
          int y,
          int m,
          int d )
```

Set the exact death date.

Parameters

d	Number of day.
т	Number of month.
У	Number of year.

14.23.3.40 setDeathPlace()

```
std::string & Person::setDeathPlace ( )
```

Set the death place by giving reference to the string.

Returns

Reference to the death place.

14.23.3.41 setFather()

Set father for the person. If father is present put him into relations.

Parameters

I	father	Index to fatherhood relation.
---	--------	-------------------------------

14.23.3.42 setFilesRoot()

Set the drive by copying the data from the other.

Parameters

drive	Other drive.
type	What type of file is the drive.
plusIndex	What should be added to each file index.

14.23.3.43 setFrontTitle()

Set the title in front of a name.

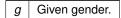
Parameters

title	The new title.

14.23.3.44 setGender()

Set the gender.

Parameters



14.23.3.45 setId()

Set the id of the person.

Parameters

id The new id.

14.23.3.46 setLives()

Set if the person lives or not.

Parameters

lives True if the person is still alive.

14.23.3.47 setMaidenName()

```
std::string & Person::setMaidenName ( )
```

Set the maiden name by getting the reference to it.

Returns

The reference to the maiden name.

14.23.3.48 setMother()

Set mother for the person. If mother is present put her into relations.

Parameters

ther Index to motherhood relation.

14.23.3.49 setName()

```
std::string & Person::setName ( )
```

Get the reference to the name for changing the name.

Returns

The reference to the name string.

14.23.3.50 setPartner()

Set the partnership relation id.

Parameters

id Id of the partnership relation.

14.23.3.51 setSurname()

```
std::string & Person::setSurname ( )
```

Get the reference to the surname for changing it.

Returns

The reference to the surname string.

14.23.3.52 str()

```
std::string Person::str ( ) const
```

Get the string representation of person.

Returns

String representing a person.

14.23.3.53 updateSpecialRelation()

Update relation if it is special.

Parameters

rel←	Which id it has.
ld	
trait	Which trait it now has.

14.23.4 Member Data Documentation

14.23.4.1 dateOfBirth_

WrappedDate Person::dateOfBirth_ [private]

Date of birth.

14.23.4.2 dateOfDeath_

WrappedDate Person::dateOfDeath_ [private]

Date of death.

14.23.4.3 events_

```
std::vector<size_t> Person::events_ [private]
```

All events ids (from Family Tree) of the person.

14.23.4.4 father_

```
size_t Person::father_ [private]
```

Index of relation with fatherhood trait.

14.23.4.5 gender_

```
Gender Person::gender_ [private]
```

Gender of the person.

14.23.4.6 id_

```
size_t Person::id_ [private]
```

Id of the person.

14.23.4.7 lives_

```
bool Person::lives_ [private]
```

If the person is alive.

14.23.4.8 maidenName_

```
std::string Person::maidenName_ [private]
```

Maiden name of the person. Usually for a married woman.

14.23.4.9 mother_

```
size_t Person::mother_ [private]
```

Index of relation with motherhood trait.

14.23.4.10 name_

```
std::string Person::name_ [private]
```

Name of the person.

14.23.4.11 partner_

```
size_t Person::partner_ [private]
```

ld of the partnership relation.

14.23.4.12 placeOfBirth_

```
std::string Person::placeOfBirth_ [private]
```

Place of birth.

14.23.4.13 placeOfDeath_

```
std::string Person::placeOfDeath_ [private]
```

Place of death.

14.23.4.14 relations_

```
std::vector<size_t> Person::relations_ [private]
```

All relations ids (from Family Tree).

14.23.4.15 rootFileDrive_

VirtualDrive Person::rootFileDrive_ [private]

Root drive for files.

14.23.4.16 rootMediaDrive_

VirtualDrive Person::rootMediaDrive_ [private]

Root drive for media.

14.23.4.17 rootNoteDrive_

VirtualDrive Person::rootNoteDrive_ [private]

Root drive for notes.

14.23.4.18 surname_

```
std::string Person::surname_ [private]
```

Surname of the person.

14.23.4.19 tags_

```
std::vector<std::pair<std::string, std::string> > Person::tags_ [private]
```

Persons tags. First is the tag itself and second is the value.

14.23.4.20 titleAfter_

```
std::string Person::titleAfter_ [private]
```

Title that is after the name.

14.23.4.21 titleInFront_

```
std::string Person::titleInFront_ [private]
```

Title that is in front of a name.

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

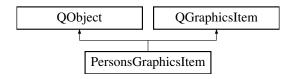
- core/person.h
- core/person.cpp

14.24 PersonsGraphicsItem Class Reference

Box with persons information.

#include <graphics_items.h>

Inheritance diagram for PersonsGraphicsItem:



Signals

• void itemClicked (size t personId)

Signal when the item is pressed.

Public Member Functions

- PersonsGraphicsItem (const QStringList &lines, int sizex, int sizey, Person *p, qreal x, qreal y, QColor color, QColor highlighted, QFont font, QWidget *parent, QPen *pen, QPen *textPen, int borderRadius)
- \sim PersonsGraphicsItem ()

Default destructor.

- QRectF boundingRect () const override
- void paint (QPainter *painter, const QStyleOptionGraphicsItem *option, QWidget *widget) override
- QPainterPath shape () const override

Protected Member Functions

- void hoverEnterEvent (QGraphicsSceneHoverEvent *event) override
- void hoverLeaveEvent (QGraphicsSceneHoverEvent *event) override
- void mousePressEvent (QGraphicsSceneMouseEvent *event) override

Private Attributes

int borderRadius_

Border radius of the box.

int bold text

Which text should be bold.

QColor color_

Which color will be used to fill the box.

QFont font

Which font is used.

· QColor highlighted_

Which color will be used when highlighted.

bool hovered_

If the box is hovered.

```
QPen * pen_
```

Pointer to the used pen.

Person * person_

Given person represented in this box.

• int sizex_

Size of the cell in the x axis.

int sizey_

Size of the cell in the y axis.

QStringList textLines_

All text lines to show in the text box.

• QPen * textPen_

Pointer to the text pen.

• qreal x_

Top left point x position.

• qreal y_

Top left point y position.

14.24.1 Detailed Description

Box with persons information.

14.24.2 Constructor & Destructor Documentation

14.24.2.1 PersonsGraphicsItem()

Default constructor.

Parameters

lines	Each separate line of text to show in the box.
sizex	Size of the cell in the x axis.
sizey	Size of the cell in the y axis.
р	Given person represented in this box.
X	Top left point x position.
У	Top left point y position.
color	Which color will be used to fill the box.

Parameters

highlighted	Which color will be used when the box is highlighted.
font	Which font will be used to type the words.
parent	Which widget will take care of clicking the box.
pen	Which pen is used for lines.
textPen	Which pen is used for text.
borderRadius	What is the radius of the border.

14.24.2.2 ~PersonsGraphicsItem()

```
PersonsGraphicsItem::~PersonsGraphicsItem ( )
```

Default destructor.

14.24.3 Member Function Documentation

14.24.3.1 boundingRect()

```
QRectF PersonsGraphicsItem::boundingRect ( ) const [override]
```

Get the bounding rectangle of the object.

Returns

Rectangle that is bounding the item.

14.24.3.2 hoverEnterEvent()

When the box is hovered by a mouse highlight the box.

Parameters

```
event | Event when the item was hovered.
```

14.24.3.3 hoverLeaveEvent()

When the box is not hovered anymore by a mouse stop highlighting.

Parameters

event

Event when the item is not hovered anymore.

14.24.3.4 itemClicked

Signal when the item is pressed.

14.24.3.5 mousePressEvent()

Press event after clicking the object.

Parameters

14.24.3.6 paint()

Paint the object to its painter.

Parameters

painter	Which painter to use to paint the object.
option	Option for the Qt framework (not used).
widget	Widget for the Qt framework (not used).

14.24.3.7 shape()

```
QPainterPath PersonsGraphicsItem::shape ( ) const [override]
```

Get the shape of the item.

Returns

Get the shape to paint.

14.24.4 Member Data Documentation

14.24.4.1 bold_text_

```
int PersonsGraphicsItem::bold_text_ [private]
```

Which text should be bold.

14.24.4.2 borderRadius_

```
int PersonsGraphicsItem::borderRadius_ [private]
```

Border radius of the box.

14.24.4.3 color

```
QColor PersonsGraphicsItem::color_ [private]
```

Which color will be used to fill the box.

14.24.4.4 font

```
QFont PersonsGraphicsItem::font_ [private]
```

Which font is used.

14.24.4.5 highlighted_

```
QColor PersonsGraphicsItem::highlighted_ [private]
```

Which color will be used when highlighted.

14.24.4.6 hovered_

```
bool PersonsGraphicsItem::hovered_ [private]
```

If the box is hovered.

14.24.4.7 pen_

```
QPen* PersonsGraphicsItem::pen_ [private]
```

Pointer to the used pen.

14.24.4.8 person_

```
Person* PersonsGraphicsItem::person_ [private]
```

Given person represented in this box.

14.24.4.9 sizex_

```
int PersonsGraphicsItem::sizex_ [private]
```

Size of the cell in the x axis.

14.24.4.10 sizey_

```
int PersonsGraphicsItem::sizey_ [private]
```

Size of the cell in the y axis.

14.24.4.11 textLines_

```
QStringList PersonsGraphicsItem::textLines_ [private]
```

All text lines to show in the text box.

14.24.4.12 textPen_

```
QPen* PersonsGraphicsItem::textPen_ [private]
```

Pointer to the text pen.

14.24.4.13 x_

```
qreal PersonsGraphicsItem::x_ [private]
```

Top left point x position.

14.24.4.14 y_

```
qreal PersonsGraphicsItem::y_ [private]
```

Top left point y position.

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

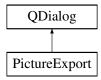
- graphics/graphics_items.h
- graphics/graphics_items.cpp

14.25 PictureExport Class Reference

Dialog for exporting diagram. To choose zoom of the picture.

```
#include <dialogs.h>
```

Inheritance diagram for PictureExport:



Public Slots

• void exportDiagram ()

When OK is pressed export the diagram.

Public Member Functions

- PictureExport (bool closeDiagram, QWidget *parent=nullptr)
- ∼PictureExport ()

Default destructor.

Private Attributes

bool closeDiagram_

Which diagram is being exported.

• Ui::PictureExport * ui

Used Qt user interface.

14.25.1 Detailed Description

Dialog for exporting diagram. To choose zoom of the picture.

14.25.2 Constructor & Destructor Documentation

14.25.2.1 PictureExport()

Default constructor.

Parameters

closeDiagram	If the diagram should be close family diagram. Otherwise it is family tree.	
parent	The Qt Widget parent.	

14.25.2.2 ~PictureExport()

```
PictureExport::~PictureExport ( )
```

Default destructor.

14.25.3 Member Function Documentation

14.25.3.1 exportDiagram

```
void PictureExport::exportDiagram ( ) [slot]
```

When OK is pressed export the diagram.

14.25.4 Member Data Documentation

14.25.4.1 closeDiagram_

```
bool PictureExport::closeDiagram_ [private]
```

Which diagram is being exported.

14.25.4.2 ui

```
Ui::PictureExport* PictureExport::ui [private]
```

Used Qt user interface.

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

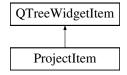
- graphics/dialogs.h
- graphics/dialogs.cpp

14.26 ProjectItem Class Reference

This is a tree widget item to be shown on a project view.

```
#include <graphics_items.h>
```

Inheritance diagram for ProjectItem:



Public Member Functions

- ProjectItem (ProjectItemType type, size_t id=0)
- size_t getId () const
- ProjectItemType type () const

Private Attributes

```
    size t id
```

Id of the stored object.

ProjectItemType type_

Type of the stored object.

14.26.1 Detailed Description

This is a tree widget item to be shown on a project view.

14.26.2 Constructor & Destructor Documentation

14.26.2.1 ProjectItem()

Default constructor.

Parameters

type	What is the type of this item.
id	Given id of the item.

14.26.3 Member Function Documentation

14.26.3.1 getId()

```
size_t ProjectItem::getId ( ) const
```

Get the id of the object.

Returns

Id of the object.

14.26.3.2 type()

```
ProjectItemType ProjectItem::type ( ) const
```

Get the type of the item.

Returns

Type of the project.

14.26.4 Member Data Documentation

14.26.4.1 id

```
size_t ProjectItem::id_ [private]
```

Id of the stored object.

14.26.4.2 type_

```
ProjectItemType ProjectItem::type_ [private]
```

Type of the stored object.

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

- · graphics/graphics items.h
- graphics/graphics_items.cpp

14.27 Relation Class Reference

Class holding data for a relationship.

```
#include <family_tree_items.h>
```

Public Member Functions

- Relation (Settings *settings)
- size_t getFirstPerson () const
- size_t getId () const
- size_t getSecondPerson () const
- size_t getTemplate () const
- const std::string & getTitle () const
- size_t getTheOtherPerson (size_t current)
- const std::string & getTheOtherPersonName (size_t current)
- Trait getTrait ()
- bool isOlderGeneration (size_t id)
- bool isParent (size_t personId)
- bool isSameGenration ()
- bool isYoungerGeneration (size_t id)
- void readJson (const Json::Value &value)
- void setId (size_t id)
- void setPersons (size_t person1, size_t person2)
- void setTemplate (size_t templ)
- std::string str (const std::string &firstPerson, const std::string &secondPerson) const

Private Attributes

```
size_t id_
```

Id of this relation.

size_t person1_

First person of the relation.

• size_t person2_

Second person of the relation.

Settings * settings_

Used settings holding the templates.

• size_t template_

Relation template it is using.

14.27.1 Detailed Description

Class holding data for a relationship.

14.27.2 Constructor & Destructor Documentation

14.27.2.1 Relation()

Default constructor.

Parameters

settings	Pointer to the settings of the app.
Julings	i dilital to the settings of the app.

14.27.3 Member Function Documentation

14.27.3.1 getFirstPerson()

```
size_t Relation::getFirstPerson ( ) const
```

Get the first person of the relation.

Returns

Id of the first person.

14.27.3.2 getId()

```
size_t Relation::getId ( ) const
```

Get the id of the relation.

Returns

ld of the relation.

14.27.3.3 getSecondPerson()

```
size_t Relation::getSecondPerson ( ) const
```

Get the second person of the relation.

Returns

Id of the second person.

14.27.3.4 getTemplate()

```
size_t Relation::getTemplate ( ) const
```

Get the template of the relation.

Returns

Id of the template.

14.27.3.5 getTheOtherPerson()

Get the other person from relation.

Parameters

current	Current person.

Returns

Other person in the relation from current.

14.27.3.6 getTheOtherPersonName()

Get the name of the other person with respect to the given person as a string.

Parameters

current	Given person id.
Current	diveriperson id.

Returns

The name of the other person.

14.27.3.7 getTitle()

```
const std::string & Relation::getTitle ( ) const
```

Get the title of the relation.

Returns

Constant reference to the title.

14.27.3.8 getTrait()

```
Trait Relation::getTrait ( )
```

Get the trait of the relation.

Returns

Trait of this relation.

14.27.3.9 isOlderGeneration()

If the given person from the relation is from older generation.

Parameters

id Id of the given person.

Returns

True if the generation difference from given person - other person is < 0.

14.27.3.10 isParent()

If the relation is of motherhood or fatherhood trait and the other person is younger.

Parameters

person⊷	Id of the person whether it is father or mother.
ld	

Returns

True if all given properties hold, otherwise false.

14.27.3.11 isSameGenration()

```
bool Relation::isSameGenration ( )
```

If the generation difference is 0.

Returns

True if the generation difference is 0.

14.27.3.12 isYoungerGeneration()

```
bool Relation::isYoungerGeneration ( \label{eq:size_tid} \mbox{size\_t} \ id \ )
```

If the given person from the relation is from younger generation.

Parameters

```
id Id of the given person.
```

Returns

True if the generation difference from given person - other person is > 0.

14.27.3.13 printHtml()

```
void Relation::printHtml (
    std::ostream & os,
    const std::string & firstPerson,
    const std::string & secondPerson,
    const std::string & promoted )
```

Print relation to an output stream in HTML format.

Parameters

os	Given output stream,
firstPerson	Name of the first person.
secondPerson Generated by Doxygen	Name of the second person.
promoted	What is the name of the promoted version.

14.27.3.14 readJson()

Read the relation from JSON value.

Parameters

value	The JSON value from file.
-------	---------------------------

14.27.3.15 setId()

Set the id of this relation.

Parameters

```
id New id.
```

14.27.3.16 setPersons()

Set persons for this relation.

Parameters

person1 Id of the first person.	
person2	ld of the second person.

14.27.3.17 setTemplate()

Set the relation template.

Parameters

templ Id of the template.	
---------------------------	--

14.27.3.18 str()

Get the string representation of relation.

Parameters

firstPerson	String representing the first person.
secondPerson	String representing the second person.

Returns

String representing the relation.

14.27.4 Member Data Documentation

14.27.4.1 id

```
size_t Relation::id_ [private]
```

Id of this relation.

14.27.4.2 person1_

```
size_t Relation::person1_ [private]
```

First person of the relation.

14.27.4.3 person2

```
size_t Relation::person2_ [private]
```

Second person of the relation.

14.27.4.4 settings_

```
Settings* Relation::settings_ [private]
```

Used settings holding the templates.

14.27.4.5 template_

```
size_t Relation::template_ [private]
```

Relation template it is using.

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

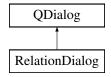
- core/family_tree_items.h
- · core/family_tree_items.cpp

14.28 Relation Dialog Class Reference

Dialog showing single relation for editing it.

```
#include <dialogs.h>
```

Inheritance diagram for RelationDialog:



Public Slots

• void chooseFirstPerson ()

Slot for opening dialog to save first person.

• void chooseSecondPerson ()

Slot for opening dialog to save second person.

void savePerson (Person *person)

Save person upon choosing it from another dialog.

• void saveRelation ()

Save relation to the family tree or add new one and save it.

• void showTemplateDetails ()

Show details about current template.

• void switchPersons ()

Switch the persons.

Public Member Functions

- RelationDialog (FamilyTree *FT, QWidget *parent=nullptr, Relation *rel=nullptr)
- ∼RelationDialog ()

Default destructor.

Private Attributes

• FamilyTree * FT_

Pointer to the family tree.

• Person * person1_

First person of the relation.

Person * person2_

Second person of the relation.

• Relation * rel_

Pointer to the edited relation, if adding new one it is a null pointer.

bool saveFirstPerson_

Whether the first person is to be saved or the second.

Ui::RelationDialog * ui

User interface of the Qt framework.

14.28.1 Detailed Description

Dialog showing single relation for editing it.

14.28.2 Constructor & Destructor Documentation

14.28.2.1 RelationDialog()

```
RelationDialog::RelationDialog (
    FamilyTree * FT,
     QWidget * parent = nullptr,
     Relation * rel = nullptr ) [explicit]
```

Default constructor.

Parameters

FT	Pointer to the family tree.
parent	The Qt Widget parent.
rel	Which relation is to be added or edited.

14.28.2.2 ∼RelationDialog()

```
RelationDialog::~RelationDialog ( )
```

Default destructor.

14.28.3 Member Function Documentation

14.28.3.1 chooseFirstPerson

```
void RelationDialog::chooseFirstPerson ( ) [slot]
```

Slot for opening dialog to save first person.

14.28.3.2 chooseSecondPerson

```
void RelationDialog::chooseSecondPerson ( ) [slot]
```

Slot for opening dialog to save second person.

14.28.3.3 savePerson

Save person upon choosing it from another dialog.

14.28.3.4 saveRelation

```
void RelationDialog::saveRelation ( ) [slot]
```

Save relation to the family tree or add new one and save it.

14.28.3.5 showTemplateDetails

```
void RelationDialog::showTemplateDetails ( ) [slot]
```

Show details about current template.

14.28.3.6 switchPersons

```
void RelationDialog::switchPersons ( ) [slot]
```

Switch the persons.

14.28.4 Member Data Documentation

```
14.28.4.1 FT_
```

```
FamilyTree* RelationDialog::FT_ [private]
```

Pointer to the family tree.

14.28.4.2 person1_

```
Person* RelationDialog::person1_ [private]
```

First person of the relation.

14.28.4.3 person2_

```
Person* RelationDialog::person2_ [private]
```

Second person of the relation.

14.28.4.4 rel_

```
Relation* RelationDialog::rel_ [private]
```

Pointer to the edited relation, if adding new one it is a null pointer.

14.28.4.5 saveFirstPerson_

```
bool RelationDialog::saveFirstPerson_ [private]
```

Whether the first person is to be saved or the second.

14.28.4.6 ui

```
Ui::RelationDialog* RelationDialog::ui [private]
```

User interface of the Qt framework.

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

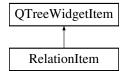
- · graphics/dialogs.h
- graphics/dialogs.cpp

14.29 RelationItem Class Reference

Class for showing relation suggestion and holding the data.

```
#include <graphics_items.h>
```

Inheritance diagram for RelationItem:



Public Member Functions

- RelationItem (FamilyTree *FT, const RelationSuggestion, RelationTemplate *templ)
- Relation * getRelation ()
- void refreshTexts ()

Update the texts.

Private Attributes

```
• FamilyTree * FT_
```

Pointer to the family tree.

· Relation relation_

Which relation it represents.

14.29.1 Detailed Description

Class for showing relation suggestion and holding the data.

14.29.2 Constructor & Destructor Documentation

14.29.2.1 RelationItem()

```
RelationItem::RelationItem (
          FamilyTree * FT,
          const RelationSuggestion & suggestion,
          RelationTemplate * templ )
```

Default constructor.

Parameters

FT	Pointer to the family tree.
suggestion	Which suggestion this item represents.
templ	Pointer to the used template.

14.29.3 Member Function Documentation

14.29.3.1 getRelation()

```
Relation * RelationItem::getRelation ( )
```

Get the pointer to the relation it represents.

Returns

Pointer to the relation.

14.29.3.2 refreshTexts()

```
void RelationItem::refreshTexts ( )
```

Update the texts.

14.29.4 Member Data Documentation

14.29.4.1 FT

```
FamilyTree* RelationItem::FT_ [private]
```

Pointer to the family tree.

14.29.4.2 relation_

```
Relation RelationItem::relation_ [private]
```

Which relation it represents.

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

- graphics/graphics_items.h
- graphics/graphics_items.cpp

14.30 RelationSuggestion Struct Reference

Struct for relation suggestions.

```
#include <family_tree_items.h>
```

Public Member Functions

• RelationSuggestion (size_t lockedP, size_t suggestedP, bool par, bool sym, Trait t)

Public Attributes

size_t lockedPerson

The one locked person.

bool parent

If the locked person should be parent or not.

• size_t suggestedPerson

Suggested person for the relation.

· bool symetrical

If the relation is symmetrical or not.

Trait trait

What relation should it be.

14.30.1 Detailed Description

Struct for relation suggestions.

14.30.2 Constructor & Destructor Documentation

14.30.2.1 RelationSuggestion()

Default constructor.

Parameters

lockedP	Locked person.
suggestedP	Suggested person.
par	If it is parent.
sym	If it is symmetrical.
t	Given trait.

14.30.3 Member Data Documentation

14.30.3.1 lockedPerson

size_t RelationSuggestion::lockedPerson

The one locked person.

14.30.3.2 parent

bool RelationSuggestion::parent

If the locked person should be parent or not.

14.30.3.3 suggestedPerson

size_t RelationSuggestion::suggestedPerson

Suggested person for the relation.

14.30.3.4 symetrical

bool RelationSuggestion::symetrical

If the relation is symmetrical or not.

14.30.3.5 trait

Trait RelationSuggestion::trait

What relation should it be.

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

- core/family_tree_items.h
- core/family_tree_items.cpp

14.31 RelationTemplate Class Reference

Template for relation. What is the name, description. What is the generation difference. And how are persons in this relation called.

```
#include <config.h>
```

Public Member Functions

• RelationTemplate ()

Default constructor.

- · const std::string & getDescription () const
- const std::string & getFirstName () const
- int getGenerationDifference () const
- size_t getId () const
- · const std::string & getSecondName () const
- const std::string & getTitle () const
- Trait getTrait () const
- void readJson (const Json::Value &value)
- std::string & setDescription ()
- std::string & setFirstName ()
- void setGenerationDifference (int diff)
- void setId (size_t id)
- std::string & setSecondName ()
- std::string & setTitle ()
- void setTrait (Trait trait)
- std::string str () const

Private Attributes

• std::string description_

Description of the relation.

std::string firstName_

First name in the relation.

· int generationDiff_

Generation difference: first generation - second generation.

size_t id_

Special ID of this template.

std::string secondName

Second name in the relation.

• std::string title_

Title of the relation.

Trait trait_

Special trait of this relation.

14.31.1 Detailed Description

Template for relation. What is the name, description. What is the generation difference. And how are persons in this relation called.

14.31.2 Constructor & Destructor Documentation

14.31.2.1 RelationTemplate()

```
RelationTemplate::RelationTemplate ( )
```

Default constructor.

14.31.3 Member Function Documentation

14.31.3.1 getDescription()

```
const std::string & RelationTemplate::getDescription ( ) const
```

Get the description.

Returns

Constant reference to the description.

14.31.3.2 getFirstName()

```
const std::string & RelationTemplate::getFirstName ( ) const
```

Get the first name of the relation.

Returns

Constant reference to the first name.

14.31.3.3 getGenerationDifference()

```
\verb|int RelationTemplate::getGenerationDifference () const|\\
```

Get the generation difference.

Returns

The difference between first and second generation.

14.31.3.4 getId()

```
size_t RelationTemplate::getId ( ) const
```

Get the ID of this relation template.

Returns

ID of this relation template.

14.31.3.5 getSecondName()

```
const std::string & RelationTemplate::getSecondName ( ) const
```

Get the second name of the relation.

Returns

Constant reference to the second name.

14.31.3.6 getTitle()

```
const std::string & RelationTemplate::getTitle ( ) const
```

Get the title of the relation.

Returns

Constant reference to the title.

14.31.3.7 getTrait()

```
Trait RelationTemplate::getTrait ( ) const
```

Get the trait of the relationship.

Returns

Trait of the relationship.

14.31.3.8 readJson()

Read data from JSON.

Parameters

```
value Given JSON value.
```

14.31.3.9 setDescription()

```
std::string & RelationTemplate::setDescription ( )
```

Set the description of the relation by giving the reference to the description.

Returns

Reference to the description.

14.31.3.10 setFirstName()

```
std::string & RelationTemplate::setFirstName ( )
```

Set the first name by giving the reference to the first name.

Returns

Reference to the first name.

14.31.3.11 setGenerationDifference()

```
void RelationTemplate::setGenerationDifference ( int \ \textit{diff} \ )
```

Set the generation difference (first - second).

Parameters

```
diff Given difference.
```

14.31.3.12 setId()

Set the ID of this relation template.

Parameters



14.31.3.13 setSecondName()

```
std::string & RelationTemplate::setSecondName ( )
```

Set the second name by giving the reference to the second name.

Returns

Reference to the second name.

14.31.3.14 setTitle()

```
std::string & RelationTemplate::setTitle ( )
```

Set the title of relation by giving the reference to the title.

Returns

Reference to the title.

14.31.3.15 setTrait()

Set the trait for the relation.

Parameters

```
trait Given trait.
```

14.31.3.16 str()

```
std::string RelationTemplate::str ( ) const
```

Represent relation template as a string.

Returns

Newly constructed string representing relation template.

14.31.4 Member Data Documentation

14.31.4.1 description_

```
std::string RelationTemplate::description_ [private]
```

Description of the relation.

14.31.4.2 firstName_

```
std::string RelationTemplate::firstName_ [private]
```

First name in the relation.

14.31.4.3 generationDiff_

```
int RelationTemplate::generationDiff_ [private]
```

Generation difference: first generation - second generation.

14.31.4.4 id_

```
size_t RelationTemplate::id_ [private]
```

Special ID of this template.

14.31.4.5 secondName_

```
std::string RelationTemplate::secondName_ [private]
```

Second name in the relation.

14.31.4.6 title_

```
std::string RelationTemplate::title_ [private]
```

Title of the relation.

14.31.4.7 trait_

```
Trait RelationTemplate::trait_ [private]
```

Special trait of this relation.

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

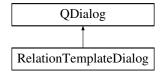
- core/config.h
- · core/config.cpp

14.32 RelationTemplateDialog Class Reference

Dialog showing all templates and possibly editing them or creating new ones.

```
#include <dialogs.h>
```

Inheritance diagram for RelationTemplateDialog:



Public Slots

· void addDefaults ()

Add default templates.

• void addNewTemplate ()

Clear boxes and set them for new template.

void removeTemplate ()

Remove current template from the templates.

void saveTemplate ()

Either save edits to the template or add new item.

void showTemplate (QTreeWidgetItem *item)

Public Member Functions

- RelationTemplateDialog (FamilyTree *FT, QWidget *parent=nullptr)
- ∼RelationTemplateDialog ()

Default destructor.

Private Member Functions

• void clear ()

Clear all text boxes.

• void refreshListWidget ()

Refresh list of all relation templates.

- void setEnabledWidgets (bool enabled)
- void saveTemplate (RelationTemplate *rel)

Private Attributes

· bool addingNew_

When we are adding new template.

FamilyTree * FT_

Pointer to the family tree.

Ui::RelationTemplateDialog * ui

User interface of the Qt framework.

14.32.1 Detailed Description

Dialog showing all templates and possibly editing them or creating new ones.

14.32.2 Constructor & Destructor Documentation

14.32.2.1 RelationTemplateDialog()

Default constructor.

Parameters

FT	Pointer to the family tree.	
parent	The Qt Widget parent.	

14.32.2.2 ~RelationTemplateDialog()

```
{\tt RelationTemplateDialog::} {\sim} {\tt RelationTemplateDialog~(~)}
```

Default destructor.

14.32.3 Member Function Documentation

14.32.3.1 addDefaults

```
void RelationTemplateDialog::addDefaults ( ) [slot]
```

Add default templates.

14.32.3.2 addNewTemplate

```
void RelationTemplateDialog::addNewTemplate ( ) [slot]
```

Clear boxes and set them for new template.

14.32.3.3 clear()

```
void RelationTemplateDialog::clear ( ) [private]
```

Clear all text boxes.

14.32.3.4 refreshListWidget()

```
void RelationTemplateDialog::refreshListWidget ( ) [private]
```

Refresh list of all relation templates.

14.32.3.5 removeTemplate

```
void RelationTemplateDialog::removeTemplate ( ) [slot]
```

Remove current template from the templates.

14.32.3.6 saveTemplate [1/2]

```
void RelationTemplateDialog::saveTemplate ( ) [slot]
```

Either save edits to the template or add new item.

14.32.3.7 saveTemplate() [2/2]

Store the given template from ui boxes.

Parameters

rel Pointer to which relation to overwrite.

14.32.3.8 setEnabledWidgets()

Set enabled for all widgets.

Parameters

enabled	If the widgets should be enabled or not.
---------	--

14.32.3.9 showTemplate

Show template details to its text boxes.

Parameters

	item	Which item was clicked.
ı	пен	i vvilicii ileiii was ciicheu.

14.32.4 Member Data Documentation

14.32.4.1 addingNew_

```
bool RelationTemplateDialog::addingNew_ [private]
```

When we are adding new template.

14.32.4.2 FT_

```
FamilyTree* RelationTemplateDialog::FT_ [private]
```

Pointer to the family tree.

14.32.4.3 ui

Ui::RelationTemplateDialog* RelationTemplateDialog::ui [private]

User interface of the Qt framework.

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

- graphics/dialogs.h
- graphics/dialogs.cpp

14.33 Settings Class Reference

Class holding all data about the settings of the app and all templates.

```
#include <config.h>
```

Public Member Functions

· Settings ()

Default constructor.

void addDefaultEvents ()

Add default event templates.

· void addDefaultRelations ()

Add default relation templates.

- size t addEventTemplate (EventTemplate &et)
- size_t addRelationTemplate (RelationTemplate &rt)
- void addTag (const std::string &tag)
- void clear ()

Clear all data.

- void exportTemplates (std::ostream &os, const std::vector< size_t > &rellds, const std::vector< size_t > &eventlds)
- const AppSettings & getAppSettings () const
- std::optional< EventTemplate * > getEventTemplate (size_t id) const
- const std::map< size_t, std::unique_ptr< EventTemplate > > & getEventTemplates () const
- size_t getGlobalMainPerson () const
- std::optional < RelationTemplate * > getRelationTemplate (size_t id) const
- const std::map< size_t, std::unique_ptr< RelationTemplate > > & getRelationTemplates () const
- const std::vector< std::string > & getTags () const
- size_t importTemplates (const Json::Value &value)
- std::pair< size_t, size_t > indexes ()
- void readJson (const Json::Value &value)
- void reIndex (size t plusEvent, size t plusRel)
- void removeEventTemplate (size t index)
- void removeRelationTemplate (size_t index)
- void removeTag (const std::string &tag)
- AppSettings & setAppSettings ()
- void setGlobalMainPerson (size_t id)

Private Member Functions

- void addDefaultEvent (const std::string &title, const std::string &description, bool date, bool place, bool morePeople, std::vector< std::string > roles)
- void addDefaultRelation (const std::string &title, const std::string &description, const std::string &firstName, const std::string &secondName, int genDiff, Trait trait)

Private Attributes

AppSettings appSettings_

Application settings.

size_t eventTemplateIndex_

First empty index for event template.

std::map< size_t, std::unique_ptr< EventTemplate > > eventTemplates_

All events templates.

• size_t globalMainPerson_

Main person that is global, so that on app start it will be chosen as the main person.

• size_t relationTemplateIndex_

First empty index for relation template.

 $\bullet \ \ \mathsf{std} :: \mathsf{map} < \mathsf{size_t}, \ \mathsf{std} :: \mathsf{unique_ptr} < \ \mathsf{RelationTemplate} > > \mathsf{relationsTemplates} \\ _$

All relationsTemplates.

• $std::vector < std::string > tags_$

All tags.

14.33.1 Detailed Description

Class holding all data about the settings of the app and all templates.

14.33.2 Constructor & Destructor Documentation

14.33.2.1 Settings()

```
Settings::Settings ( )
```

Default constructor.

14.33.3 Member Function Documentation

14.33.3.1 addDefaultEvent()

Add single default event.

Parameters

title	Title of the new event template.
description	Description of the new event template.
date	If the event template contains date.
place	If the event template contains date.
morePeople If more people are present.	
roles	Which roles, if any, the event template has.

14.33.3.2 addDefaultEvents()

```
void Settings::addDefaultEvents ( )
```

Add default event templates.

14.33.3.3 addDefaultRelation()

Add single default relation.

Parameters

title	Title of the new relation template.
description	Description of the new relation template.
firstName	First name of the person.
secondName	Second name of the person.
genDiff	Generation difference.
trait	Which trait it has.

14.33.3.4 addDefaultRelations()

```
void Settings::addDefaultRelations ( )
```

Add default relation templates.

14.33.3.5 addEventTemplate()

Add event template to the vector. Also re-index if necessary (id = 0).

Parameters

```
et Given event template.
```

Returns

Id of the template.

14.33.3.6 addRelationTemplate()

Add relation event to the vector. Also re-index if necessary (id = 0).

Parameters

```
rt Given relation template.
```

Returns

ld of the template.

14.33.3.7 addTag()

Add tag to the vector. If it is not present.

Parameters

```
tag New tag.
```

14.33.3.8 clear()

```
void Settings::clear ( )
```

Clear all data.

14.33.3.9 exportTemplates()

```
void Settings::exportTemplates (
    std::ostream & os,
    const std::vector< size_t > & relIds,
    const std::vector< size_t > & eventIds )
```

Export only certain templates in JSON.

Parameters

os	Which output stream to use for writing the data.
rellds	Vector of relation templates ids.
eventlds	Vector of event templates ids.

14.33.3.10 getAppSettings()

```
const AppSettings & Settings::getAppSettings ( ) const
```

Get the app settings.

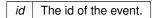
Returns

Constant reference to the app settings.

14.33.3.11 getEventTemplate()

Get exactly one event template.

Parameters



Returns

Optionally pointer to the template or nothing.

14.33.3.12 getEventTemplates()

```
const std::map< size_t, std::unique_ptr< EventTemplate >> & Settings::getEventTemplates ( ) const
```

Get all the event templates.

Returns

Constant reference to the vector of all templates.

14.33.3.13 getGlobalMainPerson()

```
size_t Settings::getGlobalMainPerson ( ) const
```

Get the global main person.

Returns

Id of the main person.

14.33.3.14 getRelationTemplate()

Get exactly one relation template.

Parameters

```
id The id of the relation.
```

Returns

Optionally pointer to the template or nothing.

14.33.3.15 getRelationTemplates()

```
const std::map< size_t, std::unique_ptr< RelationTemplate > > & Settings::getRelationTemplates
( ) const
```

Get all the relation templates.

Returns

Constant reference to the vector of all templates.

14.33.3.16 getTags()

```
const std::vector< std::string > & Settings::getTags ( ) const
```

Return the reference to all tags.

Returns

Constant reference to the container.

14.33.3.17 importTemplates()

Import templates from JSON value.

Parameters

```
value Given JSON Value.
```

Returns

Number of imported templates.

14.33.3.18 indexes()

```
std::pair < size_t, size_t > Settings::indexes ( )
```

Get the free index for templates.

Returns

Pair of event templates index and then relation templates.

14.33.3.19 readJson()

Read the configuration from its JSON value.

Parameters

value Given JSON val	ue.
------------------------	-----

14.33.3.20 reIndex()

Re-index all templates to plus given number.

Parameters

plusEvent	What is the number to add to event templates.
plusRel	What is the number to add to relation templates.

14.33.3.21 removeEventTemplate()

Remove event template from all events.

Parameters

index	On which position the event in vector is.
-------	---

14.33.3.22 removeRelationTemplate()

Remove relation template from all relations.

Parameters

index On which position the relation in vector is.

14.33.3.23 removeTag()

Remove tag from the container.

Parameters

tag

Delete same tag if it exists.

14.33.3.24 setAppSettings()

```
AppSettings & Settings::setAppSettings ( )
```

Get the reference to the app settings to edit it.

Returns

Reference to the app settings.

14.33.3.25 setGlobalMainPerson()

Set the global main person.

Parameters

id

Id of the new main person.

14.33.4 Member Data Documentation

14.33.4.1 appSettings_

```
AppSettings Settings::appSettings_ [private]
```

Application settings.

14.33.4.2 eventTemplateIndex_

```
size_t Settings::eventTemplateIndex_ [private]
```

First empty index for event template.

14.33.4.3 eventTemplates_

```
std::map<size_t, std::unique_ptr<EventTemplate> > Settings::eventTemplates_ [private]
```

All events templates.

14.33.4.4 globalMainPerson_

```
size_t Settings::globalMainPerson_ [private]
```

Main person that is global, so that on app start it will be chosen as the main person.

14.33.4.5 relationsTemplates_

```
std::map<size_t, std::unique_ptr<RelationTemplate> > Settings::relationsTemplates_ [private]
```

All relationsTemplates.

14.33.4.6 relationTemplateIndex_

```
size_t Settings::relationTemplateIndex_ [private]
```

First empty index for relation template.

14.33.4.7 tags_

```
std::vector<std::string> Settings::tags_ [private]
```

All tags.

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

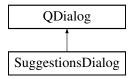
- · core/config.h
- · core/config.cpp

14.34 Suggestions Dialog Class Reference

Dialog for relation suggestions.

#include <dialogs.h>

Inheritance diagram for SuggestionsDialog:



Public Slots

• void removeSuggestion ()

Remove current suggestion.

• void save ()

Save all suggestions.

- void selectedSuggestion (QTreeWidgetItem *item)
- void swapPersons ()

Swap persons roles.

void switchedTemplate ()

Switch the template description.

Public Member Functions

- $\bullet \ \, {\tt SuggestionsDialog} \ ({\tt FamilyTree} \ *{\tt FT}, \ {\tt std} :: vector < Relation Suggestion > suggestions, \ {\tt QWidget} \ *{\tt parent=nullptr}) \\$
- ∼SuggestionsDialog ()

Default destructor.

Private Attributes

std::vector< RelationTemplate * > fatherhoods

Vector of all templates for fatherhood relations.

FamilyTree * FT_

Pointer to the family tree.

std::vector< RelationTemplate * > motherhoods

Vector of all templates for motherhood relations.

 $\bullet \ \, \text{std::vector} < \text{RelationTemplate} * > \text{partnerships}$

Vector of all templates for partnership relations.

std::vector< RelationTemplate * > siblings

Vector of all templates for siblings relations.

• Ui::SuggestionsDialog * ui

Used Qt user interface.

14.34.1 Detailed Description

Dialog for relation suggestions.

14.34.2 Constructor & Destructor Documentation

14.34.2.1 SuggestionsDialog()

```
SuggestionsDialog::SuggestionsDialog (
    FamilyTree * FT,
    std::vector< RelationSuggestion > suggestions,
    QWidget * parent = nullptr )
```

Default constructor.

Parameters

FT	Pointer to the family tree.
suggestions	All the suggestions for relations.
parent	The Qt Widget parent.

14.34.2.2 ~SuggestionsDialog()

```
SuggestionsDialog::~SuggestionsDialog ( )
```

Default destructor.

14.34.3 Member Function Documentation

14.34.3.1 removeSuggestion

```
void SuggestionsDialog::removeSuggestion ( ) [slot]
```

Remove current suggestion.

14.34.3.2 save

```
void SuggestionsDialog::save ( ) [slot]
```

Save all suggestions.

14.34.3.3 selectedSuggestion

When a suggestion is clicked.

Parameters

item Which suggestion was clicked.

14.34.3.4 swapPersons

```
void SuggestionsDialog::swapPersons ( ) [slot]
```

Swap persons roles.

14.34.3.5 switchedTemplate

```
void SuggestionsDialog::switchedTemplate ( ) [slot]
```

Switch the template description.

14.34.4 Member Data Documentation

14.34.4.1 fatherhoods

```
std::vector<RelationTemplate*> SuggestionsDialog::fatherhoods [private]
```

Vector of all templates for fatherhood relations.

14.34.4.2 FT_

```
FamilyTree* SuggestionsDialog::FT_ [private]
```

Pointer to the family tree.

14.34.4.3 motherhoods

```
std::vector<RelationTemplate*> SuggestionsDialog::motherhoods [private]
```

Vector of all templates for motherhood relations.

14.34.4.4 partnerships

```
std::vector<RelationTemplate*> SuggestionsDialog::partnerships [private]
```

Vector of all templates for partnership relations.

14.34.4.5 siblings

```
std::vector<RelationTemplate*> SuggestionsDialog::siblings [private]
```

Vector of all templates for siblings relations.

14.34.4.6 ui

```
Ui::SuggestionsDialog* SuggestionsDialog::ui [private]
```

Used Qt user interface.

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

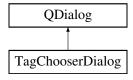
- · graphics/dialogs.h
- · graphics/dialogs.cpp

14.35 TagChooserDialog Class Reference

Dialog for editing or creating tags for a person.

```
#include <dialogs.h>
```

Inheritance diagram for TagChooserDialog:



Public Slots

- void changeVisibleWidgets (int index)
- void saveTag ()

Save the tag.

Public Member Functions

- TagChooserDialog (FamilyTree *FT, const QString &tag, const QString &value, QWidget *parent=nullptr)
- \sim TagChooserDialog ()

Default destructor.

Private Attributes

• FamilyTree * FT_

Pointer to the family tree.

· bool newOne_

If the tag is being edited or new one is being created.

• Ui::TagChooserDialog * ui

User interface of the Qt framework.

14.35.1 Detailed Description

Dialog for editing or creating tags for a person.

14.35.2 Constructor & Destructor Documentation

14.35.2.1 TagChooserDialog()

```
TagChooserDialog::TagChooserDialog (
    FamilyTree * FT,
    const QString & tag,
    const QString & value,
    QWidget * parent = nullptr )
```

Default constructor.

Parameters

FT	Pointer to the family tree.
tag	What to show as a tag.
value	What to show as a value of the tag.
parent	The Qt Widget parent.

14.35.2.2 ∼TagChooserDialog()

```
TagChooserDialog::~TagChooserDialog ( )
```

Default destructor.

14.35.3 Member Function Documentation

14.35.3.1 changeVisibleWidgets

Slot for showing/hiding custom tag edit.

Parameters

14.35.3.2 saveTag

```
void TagChooserDialog::saveTag ( ) [slot]
```

Save the tag.

14.35.4 Member Data Documentation

14.35.4.1 FT

```
FamilyTree* TagChooserDialog::FT_ [private]
```

Pointer to the family tree.

14.35.4.2 newOne_

```
bool TagChooserDialog::newOne_ [private]
```

If the tag is being edited or new one is being created.

14.35.4.3 ui

```
Ui::TagChooserDialog* TagChooserDialog::ui [private]
```

User interface of the Qt framework.

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

- · graphics/dialogs.h
- graphics/dialogs.cpp

14.36 VirtualDrive Class Reference

Class for virtualization of folder structure for each person.

```
#include <person.h>
```

Public Member Functions

• VirtualDrive ()=default

Default constructor.

- VirtualDrive (const std::string &name)
- void addFile (size_t fileId)
- VirtualDrive * addSubdrive ()
- VirtualDrive * addSubdrive (const std::string &name)
- void copyDrive (const VirtualDrive &other, size t plusIndex=0)
- const std::vector< size_t > & getFiles () const
- const std::string & getName () const
- const std::vector< std::unique_ptr< VirtualDrive >> & getSubdrives () const
- void readJson (const Json::Value &value)
- void remove (const std::string &subfolderName)
- void removeFile (size_t id)
- void rename (const std::string &name)
- void usedFiles (std::vector< size_t > &used) const

Private Attributes

```
    std::vector < size_t > files_
    Container of all files.
```

• std::string name_

Name of the folder.

 $\bullet \ \ \mathsf{std} :: \mathsf{vector} < \mathsf{std} :: \mathsf{unique_ptr} < \mathsf{VirtualDrive} >> \mathsf{subdrives_}$

Container of pointers to the sub-folders.

14.36.1 Detailed Description

Class for virtualization of folder structure for each person.

14.36.2 Constructor & Destructor Documentation

14.36.2.1 VirtualDrive() [1/2]

```
VirtualDrive::VirtualDrive ( ) [default]
```

Default constructor.

14.36.2.2 VirtualDrive() [2/2]

Constructor for known name.

Parameters

name Name of this folder.

14.36.3 Member Function Documentation

14.36.3.1 addFile()

Add file to the folder by its id. Only if it is not already there.

Parameters

file⊷	ld of the file.
ld	

14.36.3.2 addSubdrive() [1/2]

```
VirtualDrive * VirtualDrive::addSubdrive ( )
```

Add sub-folder to this folder.

Returns

Pointer to the new sub-folder.

14.36.3.3 addSubdrive() [2/2]

Add sub-folder to this folder.

Parameters

Returns

Pointer to the new sub-folder.

14.36.3.4 copyDrive()

Recursively copy the other drive. Used for import mainly.

Parameters

other	Other drive.
plusIndex	What should be added to each file index.

14.36.3.5 getFiles()

```
const std::vector< size_t > & VirtualDrive::getFiles ( ) const
```

Get constant reference to the container of files.

Returns

Constant reference to the container of files.

14.36.3.6 getName()

```
const std::string & VirtualDrive::getName ( ) const
```

Get the name of the folder.

Returns

Name of the folder.

14.36.3.7 getSubdrives()

```
\verb|const| std::vector<| std::unique_ptr<| VirtualDrive| >> & VirtualDrive::getSubdrives| ( ) | const| | const|
```

Get constant reference to the container of files.

Returns

Constant reference to the container of pointers to virtual drives.

14.36.3.8 readJson()

Load data from JSON value.

Parameters

```
value Given JSON value.
```

14.36.3.9 remove()

Remove sub-folder and all its sub-folders and files.

Parameters

```
subfolderName Name of the sub-folder.
```

14.36.3.10 removeFile()

Remove one file in this folder.

Parameters

id Id of the file.

14.36.3.11 rename()

Rename this folder.

Parameters

name New name of this folder.

14.36.3.12 usedFiles()

```
void VirtualDrive::usedFiles ( std::vector < \ size\_t \ > \ \& \ used \ ) \ const
```

Vector of all used files.

Parameters

used Vector of all files contained in this folder and sub-folders.

14.36.4 Member Data Documentation

14.36.4.1 files_

```
std::vector<size_t> VirtualDrive::files_ [private]
```

Container of all files.

14.36.4.2 name_

```
std::string VirtualDrive::name_ [private]
```

Name of the folder.

14.36.4.3 subdrives_

```
std::vector<std::unique_ptr<VirtualDrive> > VirtualDrive::subdrives_ [private]
```

Container of pointers to the sub-folders.

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

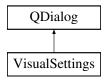
- core/person.h
- core/person.cpp

14.37 VisualSettings Class Reference

Dialog for editing and showing graphic settings.

#include <dialogs.h>

Inheritance diagram for VisualSettings:



Public Slots

void highlightedColor ()

Show dialog for color change upon clicking on highlighted color change.

· void lineColor ()

Change the color of line.

· void refresh ()

Upon clicking the refresh button load the values and show the graphics.

void probandColor ()

Show dialog for color change upon clicking on proband color change.

• void promotedColor ()

Show dialog for color change upon clicking on promoted color change.

void saveAndExit ()

Emit signal for saving the configuration and exit the dialog.

· void standardColor ()

Show dialog for color change upon clicking on standard color change.

void textColor ()

Change the color of a text.

Signals

 void saveSettings (QColor probandColor, QColor promotedColor, QColor standardColor, QColor highlightedColor, int sizeX, int sizeY, QFont font, QColor lineColor, QColor textColor, int lineWidth, int rounding)

Public Member Functions

- VisualSettings (QColor probandColor, QColor promotedColor, QColor standardColor, QColor highlighted, int sizeX, int sizeY, QFont font, QPen *pen, QPen *textPen, int borderRadius, QWidget *parent=nullptr)
- ∼VisualSettings ()

Default destructor.

Private Attributes

· int borderRadius_

Border radius of the box.

QFont font

Used font.

QColor highlightedColor_

Color for highlighting the box.

• QPen pen_

Which pen is used for lines.

QColor probandColor_

Color for proband.

QColor promotedColor_

Color for promoted relations.

• QGraphicsScene * scene

Used graphics scene.

int sizeX_

Size of the box in x axis.

int sizeY

Size of the box in y axis.

QColor standardColor_

Color for standard relations.

QPen textPen

Pen used for texts.

Ui::VisualSettings * ui

Used Qt user interface.

14.37.1 Detailed Description

Dialog for editing and showing graphic settings.

14.37.2 Constructor & Destructor Documentation

14.37.2.1 VisualSettings()

Default constructor.

Parameters

probandColor	Color used for proband.
promotedColor	Color for promoted Relations.
standardColor	Standard color.
highlighted	Color for highlighting the box.
sizeX	Size of the box in x axis.
sizeY	Size of the box in y axis.
font	Used font for the text in the box.
pen	Which pen is used for lines.
textPen	Which pen is used for text.
borderRadius	What is the border radius of the box.
parent	The Qt Widget parent.

14.37.2.2 \sim VisualSettings()

```
\label{times:constraints} Visual Settings:: \sim Visual Settings \ (\ )
```

Default destructor.

14.37.3 Member Function Documentation

14.37.3.1 highlightedColor

```
void VisualSettings::highlightedColor ( ) [slot]
```

Show dialog for color change upon clicking on highlighted color change.

14.37.3.2 lineColor

```
void VisualSettings::lineColor ( ) [slot]
```

Change the color of line.

14.37.3.3 probandColor

```
\begin{tabular}{ll} \begin{tabular}{ll} void & VisualSettings::probandColor () & [slot] \end{tabular} \label{tabular}
```

Show dialog for color change upon clicking on proband color change.

14.37.3.4 promotedColor

```
void VisualSettings::promotedColor ( ) [slot]
```

Show dialog for color change upon clicking on promoted color change.

14.37.3.5 refresh

```
void VisualSettings::refresh ( ) [slot]
```

Upon clicking the refresh button load the values and show the graphics.

14.37.3.6 saveAndExit

```
void VisualSettings::saveAndExit ( ) [slot]
```

Emit signal for saving the configuration and exit the dialog.

14.37.3.7 saveSettings

Signal to emit when OK button is pressed to save this configuration.

Parameters

probandColor	Color used for proband.
promotedColor	Color for promoted Relations.
standardColor	Standard color.
highlightedColor	Highlighted color.
sizeX	Size of the box in x axis.
sizeY	Size of the box in y axis.
font	Used font for the text in the box.
lineColor	Color for lines.
textColor	Color for texts.
lineWidth	Width of the lines.
rounding	Rounding of the boxes.

14.37.3.8 standardColor

```
\begin{tabular}{ll} \begin{tabular}{ll} void & VisualSettings::standardColor ( ) & [slot] \end{tabular} \label{tabular}
```

Show dialog for color change upon clicking on standard color change.

14.37.3.9 textColor

```
void VisualSettings::textColor ( ) [slot]
```

Change the color of a text.

14.37.4 Member Data Documentation

14.37.4.1 borderRadius_

```
int VisualSettings::borderRadius_ [private]
```

Border radius of the box.

14.37.4.2 font_

```
QFont VisualSettings::font_ [private]
```

Used font.

14.37.4.3 highlightedColor_

```
QColor VisualSettings::highlightedColor_ [private]
```

Color for highlighting the box.

14.37.4.4 pen_

```
QPen VisualSettings::pen_ [private]
```

Which pen is used for lines.

14.37.4.5 probandColor_

```
QColor VisualSettings::probandColor_ [private]
```

Color for proband.

14.37.4.6 promotedColor_

```
QColor VisualSettings::promotedColor_ [private]
```

Color for promoted relations.

14.37.4.7 scene

QGraphicsScene* VisualSettings::scene [private]

Used graphics scene.

14.37.4.8 sizeX_

int VisualSettings::sizeX_ [private]

Size of the box in x axis.

14.37.4.9 sizeY_

int VisualSettings::sizeY_ [private]

Size of the box in y axis.

14.37.4.10 standardColor

QColor VisualSettings::standardColor_ [private]

Color for standard relations.

14.37.4.11 textPen_

QPen VisualSettings::textPen_ [private]

Pen used for texts.

14.37.4.12 ui

Ui::VisualSettings* VisualSettings::ui [private]

Used Qt user interface.

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

- · graphics/dialogs.h
- graphics/dialogs.cpp

14.38 WrappedDate Class Reference

Class holding two dates and date description. Always first date is the main one.

#include <date.h>

Public Member Functions

• WrappedDate ()

Default constructor.

• void clear ()

Clear all values.

- const Date & getFirstDate () const
- const Date & getSecondDate () const
- const std::string & getText () const
- bool isExact () const
- bool isUnknown () const
- void readJson (const Json::Value &value)
- void setFirstDate (int y, int m, int d)
- void setSecondDate (int y, int m, int d)
- std::string & setText ()
- std::string str () const
- void updateDate ()

Switch the dates if the first one is empty.

Private Attributes

• Date date1_

Main date, if interval is set it is the first day.

· Date date2_

Second date for interval only, otherwise empty.

• std::string text_

If text was given.

14.38.1 Detailed Description

Class holding two dates and date description. Always first date is the main one.

14.38.2 Constructor & Destructor Documentation

14.38.2.1 WrappedDate()

```
WrappedDate::WrappedDate ( )
```

Default constructor.

14.38.3 Member Function Documentation

14.38.3.1 clear()

```
void WrappedDate::clear ( )
```

Clear all values.

14.38.3.2 getFirstDate()

```
const Date & WrappedDate::getFirstDate ( ) const
```

Get the first date.

Returns

Constant reference to the first date.

14.38.3.3 getSecondDate()

```
const Date & WrappedDate::getSecondDate ( ) const
```

Get the second date.

Returns

Constant reference to the second date.

14.38.3.4 getText()

```
const std::string & WrappedDate::getText ( ) const
```

Get the text.

Returns

Constant reference to the text.

14.38.3.5 isExact()

```
bool WrappedDate::isExact ( ) const
```

Check if the date is exact or not. To be exact only the first date has to be exact, the second got to be empty.

Returns

True if the first date is exact & second empty.

14.38.3.6 isUnknown()

```
bool WrappedDate::isUnknown ( ) const
```

Check if the date is unknown. To be unknown all values are 0 and text is empty.

Returns

If the date is unknown.

14.38.3.7 readJson()

Read the data from JSON formatting.

Parameters

<i>value</i> Given JSON value.

14.38.3.8 setFirstDate()

```
void WrappedDate::setFirstDate (
    int y,
    int m,
    int d)
```

Set the first date.

Parameters

У	Year number.
m	Month number.
d	Day number.

14.38.3.9 setSecondDate()

Set the second date.

Parameters

У	Year number.
m	Month number.
d	Day number.

14.38.3.10 setText()

```
std::string & WrappedDate::setText ( )
```

Set the text for the date by giving the reference to the text.

Returns

Text used in the date.

14.38.3.11 str()

```
std::string WrappedDate::str ( ) const
```

Represent the date by a string.

Returns

Newly constructed string.

14.38.3.12 updateDate()

```
void WrappedDate::updateDate ( )
```

Switch the dates if the first one is empty.

14.38.4 Member Data Documentation

14.38.4.1 date1_

```
Date WrappedDate::date1_ [private]
```

Main date, if interval is set it is the first day.

14.38.4.2 date2_

```
Date WrappedDate::date2_ [private]
```

Second date for interval only, otherwise empty.

14.38.4.3 text_

```
std::string WrappedDate::text_ [private]
```

If text was given.

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

- core/date.h
- core/date.cpp

Chapter 15

File Documentation

15.1 core/config.cpp File Reference

Source code for configuring the app such as special evens and relations.

```
#include "config.h"
```

Functions

- std::ostream & operator<< (std::ostream &os, const EventTemplate &et)
- std::ostream & operator<< (std::ostream &os, const RelationTemplate &rt)
- std::ostream & operator<< (std::ostream &os, const Color &color)
- std::ostream & operator<< (std::ostream &os, const AppSettings &as)
- std::ostream & operator<< (std::ostream &os, const Settings &settings)

15.1.1 Detailed Description

Source code for configuring the app such as special evens and relations.

15.1.2 Function Documentation

15.1.2.1 operator<<() [1/5]

Output the app settings to stream in JSON format.

Parameters

os	Given stream.
as	Given app settings.

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Returns

Reference to the changed stream.

15.1.2.2 operator<<() [2/5]

Output the color to stream in JSON format.

Parameters

os	Given stream.
color	Given color.

Returns

Reference to the changed stream.

15.1.2.3 operator << () [3/5]

Output the event template to stream in JSON format.

Parameters

05	3	Given stream.
et	•	Given event template.

Returns

Reference to the changed stream.

15.1.2.4 operator << () [4/5]

Output the relation template to stream in JSON format.

Parameters

os	Given stream.
rt	Given relation template.

Returns

Reference to the changed stream.

15.1.2.5 operator << () [5/5]

Output all the settings to stream in JSON format.

Parameters

os	Given stream.
setting	Given settings.

Returns

Reference to the changed stream.

15.2 core/config.h File Reference

Header file for configuration of the app. Also includes templates for events and relations.

```
#include <vector>
#include <string>
#include <ostream>
#include <map>
#include <optional>
#include <json/json.h>
#include <climits>
#include <algorithm>
#include "strings.h"
```

Classes

class EventTemplate

Template for events. It specifies whether the event includes a date, a place or if more persons are involved and if they have some special roles.

class RelationTemplate

Template for relation. What is the name, description. What is the generation difference. And how are persons in this relation called.

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struct Color

Struct for general color.

struct AppSettings

Struct for app settings.

class Settings

Class holding all data about the settings of the app and all templates.

Namespaces

· namespace trait

Namespace for everything with relation traits.

Enumerations

```
    enum Trait {
        None , Fatherhood , Motherhood , Partnership ,
        Sibling }
        Common traits of each relations.
    enum TabPosition { North , South , East , West }
        Enumeration for tab position.
```

Functions

```
    std::ostream & operator<< (std::ostream &os, const EventTemplate &et)</li>
```

- std::string trait::str (Trait t)
- std::ostream & operator<< (std::ostream &os, const RelationTemplate &rt)
- std::ostream & operator<< (std::ostream &os, const Color &color)
- std::ostream & operator<< (std::ostream &os, const AppSettings &as)
- std::ostream & operator<< (std::ostream &os, const Settings &setting)

Variables

constexpr Trait trait::AllTraits [] = {None, Fatherhood, Motherhood, Partnership, Sibling}
 All possible traits.

15.2.1 Detailed Description

Header file for configuration of the app. Also includes templates for events and relations.

15.2.2 Enumeration Type Documentation

15.2.2.1 TabPosition

enum TabPosition

Enumeration for tab position.

Enumerator

North	
South	
East	
West	

15.2.2.2 Trait

```
enum Trait
```

Common traits of each relations.

Enumerator

None	
Fatherhood	
Motherhood	
Partnership	
Sibling	

15.2.3 Function Documentation

15.2.3.1 operator<<() [1/5]

Output the app settings to stream in JSON format.

Parameters

os	Given stream.
as	Given app settings.

Returns

Reference to the changed stream.

15.2.3.2 operator<<() [2/5]

Output the color to stream in JSON format.

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Parameters

os	Given stream.
color	Given color.

Returns

Reference to the changed stream.

15.2.3.3 operator << () [3/5]

Output the event template to stream in JSON format.

Parameters

os	Given stream.
et	Given event template.

Returns

Reference to the changed stream.

15.2.3.4 operator<<() [4/5]

```
std::ostream & operator<< (
          std::ostream & os,
          const RelationTemplate & rt )</pre>
```

Output the relation template to stream in JSON format.

Parameters

os	Given stream.
rt	Given relation template.

Returns

Reference to the changed stream.

15.2.3.5 operator << () [5/5]

```
std::ostream & operator<< (
          std::ostream & os,
          const Settings & setting)</pre>
```

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Output all the settings to stream in JSON format.

Parameters

os	Given stream.
setting	Given settings.

Returns

Reference to the changed stream.

15.3 config.h

```
Go to the documentation of this file.
00001
00002 #ifndef config_h_
00003 #define config_h_
00004
00005 #include <vector>
00006 #include <string>
00007 #include <ostream>
00008 #include <map>
00009 #include <optional>
00010 #include <json/json.h>
00011 #include <climits>
00012 #include <algorithm>
00013 #include "strings.h"
00014
00016 class EventTemplate(
        public:
00017
00019
              EventTemplate();
00022
              bool containsDate() const;
00025
              bool containsPlace() const;
00028
              const std::string& getDescription() const;
00031
              size_t getId() const;
00034
              const std::vector<std::string>& getRoles() const;
00037
              const std::string& getTitle() const;
00040
              bool hasMorePeopleInvolved() const;
00043
              bool hasRoles() const;
00046
              void readJson(const Json::Value& value);
00049
              void setContainsDate(bool hasDate);
00052
              void setContainsPlace(bool hasPlace);
00055
              std::string& setDescription();
00058
              void setId(size_t id);
00061
              void setMorePeopleInvolved(bool morePeople);
00064
              void setRoles(std::vector<std::string>& roles);
00067
              std::string& setTitle();
00070
              std::string str() const;
00071
         private:
00073
             bool containsDate_;
00075
              bool containsPlace_;
00077
              std::string description_;
00079
              size_t id_;
00081
              bool morePeopleInvolved :
00083
              std::vector<std::string> roles_;
00085
              std::string title_;
00086 };
00087
00092 std::ostream& operator«(std::ostream& os, const EventTemplate& et);
00093
00095 enum Trait {None, Fatherhood, Motherhood, Partnership, Sibling};
00096
00098 namespace trait{
00100
          constexpr Trait AllTraits[] = {None, Fatherhood, Motherhood, Partnership, Sibling};
00104
          std::string str(Trait t);
00105 }
00106
00108 class RelationTemplate{
       public:
00109
00111
             RelationTemplate();
00114
              const std::string& getDescription() const;
              const std::string& getFirstName() const;
int getGenerationDifference() const;
00117
00120
00123
              size_t getId() const;
00126
              const std::string& getSecondName() const;
```

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```
const std::string& getTitle() const;
              Trait getTrait() const;
00132
00135
              void readJson(const Json::Value& value);
00138
              std::string& setDescription();
00141
              std::string& setFirstName();
00144
              void setGenerationDifference(int diff);
              void setId(size_t id);
00150
              std::string& setSecondName();
00153
              std::string& setTitle();
00156
              void setTrait(Trait trait);
00159
              std::string str() const;
        private:
00160
00162
             std::string description_;
00164
              std::string firstName_;
00166
              int generationDiff_;
00168
              size_t id_;
00170
              std::string secondName_;
00172
              std::string title_;
00174
              Trait trait_;
00175 };
00176
00181 std::ostream& operator«(std::ostream& os, const RelationTemplate& rt);
00182
00184 enum TabPosition {North, South, East, West};
00185
00187 struct Color{
00192
          explicit Color(int r = 255, int g = 255, int b = 255);
00194
          int red;
00196
          int green;
00198
          int blue:
00200
          void readJson(const Json::Value& value);
00201 };
00202
00207 std::ostream& operator (std::ostream& os, const Color& color);
00208
00210 struct AppSettings{
00212
         std::string fontFamily;
          int fontSize;
00214
          int genSizeDown;
00216
00218
          int genSizeUp;
00220
          Color highlightedColor;
          Color lineColor;
00222
00224
          int lineWidth:
00226
          Color probandColor;
          Color promoted;
00228
00230
          int radius;
00233
          void readJson(const Json::Value& value);
00235
          void setDefault();
00237
          bool showEventTab:
00239
          bool showFileTab:
00241
          bool showGeneralTab;
00243
          bool showMediaTab;
00245
          bool showNoteTab;
00247
          bool showRelationTab;
00249
          int sizeX;
00251
          int sizeY;
          int splitterPositionOne;
00253
00255
          int splitterPositionTwo;
00257
          Color standard;
00259
          TabPosition tabPosition;
00261
          Color textColor;
00262 };
00263
00268 std::ostream& operator (std::ostream& os, const AppSettings& as);
00269
00271 class Settings{
00272
       public:
00274
             Settings();
00276
              void addDefaultEvents();
              void addDefaultRelations();
00282
              size_t addEventTemplate(EventTemplate& et);
00286
              size_t addRelationTemplate(RelationTemplate& rt);
00289
              void addTag(const std::string& tag);
00291
              void clear();
00296
              void exportTemplates(std::ostream& os, const std::vector<size t>& relIds, const
     std::vector<size_t>& eventIds);
00299
              const AppSettings& getAppSettings() const;
00303
              std::optional<EventTemplate*> getEventTemplate(size_t id) const;
              const std::map<size_t, std::unique_ptr<EventTemplate%& getEventTemplates() const;
size_t getGlobalMainPerson() const;
00306
00309
              std::optional<RelationTemplate*> getRelationTemplate(size_t id) const;
00313
              const std::map<size_t, std::unique_ptr<RelationTemplate»& getRelationTemplates() const;</pre>
00316
00319
              const std::vector<std::string>& getTags() const;
00323
              size_t importTemplates(const Json::Value& value);
00326
              std::pair<size_t, size_t> indexes();
              void readJson(const Json::Value& value);
00329
00333
              void reIndex(size_t plusEvent, size_t plusRel);
```

```
void removeEventTemplate(size_t index);
               void removeRelationTemplate(size_t index);
00342
               void removeTag(const std::string& tag);
00345
              AppSettings& setAppSettings();
00348
               void setGlobalMainPerson(size_t id);
        private:
00349
               void addDefaultEvent(const std::string& title, const std::string& description, bool date, bool
00357
      place, bool morePeople, std::vector<std::string> roles);
std::string& firstName, const std::string& secondName, int genDiff, Trait trait);

AppSettings appSettings :
00365
              void addDefaultRelation(const std::string& title, const std::string& description, const
            AppSettings appSettings_;
size_t eventTemplateIndex_;
00369
              std::map<size_t, std::unique_ptr<EventTemplate» eventTemplates_;
size_t globalMainPerson_;</pre>
00371
00373
00375
               size_t relationTemplateIndex_;
00377
               std::map<size_t, std::unique_ptr<RelationTemplate» relationsTemplates_;</pre>
00379
               std::vector<std::string> tags_;
00380 };
00386 std::ostream& operator «(std::ostream& os, const Settings& setting);
00388 #endif
```

15.4 core/date.cpp File Reference

Source file for date formats.

```
#include "date.h"
```

Functions

- std::ostream & operator<< (std::ostream &os, const Date &d)
- std::ostream & operator<< (std::ostream &os, const WrappedDate &wd)

15.4.1 Detailed Description

Source file for date formats.

15.4.2 Function Documentation

```
15.4.2.1 operator<<() [1/2]
```

Writing date to the stream in format yyyy-mm-dd. Instead of writing for example 05, there will be just 5.

Parameters

os	Given stream.
d	Given date.

Returns

Reference to the changed stream.

15.4.2.2 operator << () [2/2]

Writing wrapped date to given stream in JSON formatting.

Parameters

os	Given stream.
wd	Given WrappedDate.

Returns

Reference to the changed stream.

15.5 core/date.h File Reference

Header file for date formats.

```
#include <string>
#include <ostream>
#include <sstream>
#include <json/json.h>
#include <ctime>
#include "strings.h"
```

Classes

• class Date

Basic date format. Holding three numbers for year, month and day. If some of the numbers are not defined 0 is present.

class WrappedDate

Class holding two dates and date description. Always first date is the main one.

Functions

- std::ostream & operator<< (std::ostream &os, const Date &d)
- std::ostream & operator<< (std::ostream &os, const WrappedDate &wd)

15.5.1 Detailed Description

Header file for date formats.

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15.5.2 Function Documentation

15.5.2.1 operator<<() [1/2]

Writing date to the stream in format yyyy-mm-dd. Instead of writing for example 05, there will be just 5.

Parameters

os	Given stream.
d	Given date.

Returns

Reference to the changed stream.

15.5.2.2 operator<<() [2/2]

Writing wrapped date to given stream in JSON formatting.

Parameters

os	Given stream.
wd	Given WrappedDate.

Returns

Reference to the changed stream.

15.6 date.h

Go to the documentation of this file.

```
00001
00002 #ifndef date_h_
00003 #define date_h_
00004
00005 #include <string>
00006 #include <ostream>
00007 #include <sstream>
00008 #include <json/json.h>
00009 #include <ctime>
00010 #include "strings.h"
00011
00013 class Date{
00014
       public:
00019
            explicit Date(int y = 0, int m = 0, int d = 0);
00022
              int getDay() const;
```

```
int getMonth() const;
00028
              int getYear() const;
00032
             bool isEmpty() const;
00036
             bool isExact() const;
00041
             void read(const std::string& date);
00044
             void setDay(int d);
             void setMonth(int m);
00050
             void setYear(int y);
00054
              std::string str() const;
00055
00057
        private:
             int day;
00059
              int month:
00061
              int year;
00062 };
00063
00069 std::ostream& operator«(std::ostream& os, const Date& d);
00070
00072 class WrappedDate{
        public:
             WrappedDate();
00077
             void clear();
00080
             const Date& getFirstDate() const;
00083
             const Date& getSecondDate() const;
00086
             const std::string& getText() const;
00090
             bool isExact() const;
            bool isUnknown() const;
00096
             void readJson(const Json::Value& value);
00101
             void setFirstDate(int y, int m, int d);
00106
             void setSecondDate(int y, int m, int d);
        std::string& setText();
std::string str() const;
00109
00112
00114
              void updateDate();
00115
       private:
00117
             Date date1_;
00119
             Date date2_;
00121
              std::string text_;
00122 };
00128 std::ostream& operator«(std::ostream& os, const WrappedDate& wd);
00129
00130 #endif
```

15.7 core/family_tree.cpp File Reference

Source file for Family tree.

```
#include "family_tree.h"
```

15.7.1 Detailed Description

Source file for Family tree.

15.8 core/family_tree.h File Reference

Header file for Family tree.

```
#include <string>
#include <sstream>
#include <vector>
#include <ostream>
#include <map>
#include <set>
#include <memory>
```

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```
#include <functional>
#include <json/json.h>
#include "file_parser.h"
#include "config.h"
#include "date.h"
#include "person.h"
#include "strings.h"
#include "family_tree_items.h"
```

Classes

class FamilyTree

Main class for holding all data of a family tree. Also it acts as a bridge to the core of the application.

15.8.1 Detailed Description

Header file for Family tree.

15.9 family tree.h

Go to the documentation of this file.

```
00002 #ifndef family_tree_
00003 #define family_tree_
00004
00005 #include <string>
00006 #include <sstream>
00007 #include <vector>
00008 #include <ostream>
00009 #include <map>
00010 #include <set>
00011 #include <memory>
00012 #include <functional>
00013 #include <json/json.h>
00014 #include "file_parser.h"
00015 #include "config.h'
00016 #include "date.h"
00017 #include "person.h"
00018 #include "strings.h"
00019 #include "family_tree_items.h"
00022 class FamilyTree{
     public:
00023
00025
            FamilyTree();
00028
             Event* addEvent();
             Event* addEvent(size_t index);
00032
00037
             File* addFile(const std::string& name, FileType type = GENERAL_FILE);
             File* addFile(const std::string& name, size_t index, FileType type = GENERAL_FILE);
00046
             Person* addPerson();
00050
             Person* addPerson(size_t index);
             Relation* addRelation();
Relation* addRelation(size_t index);
void append(FamilyTree& other);
00053
00057
00061
00064
             std::pair<bool, std::string> checkFileConsistence();
             void clear();
00066
00068
             void clearProjectPaths();
00073
             size_t copyFile(const std::string& filePath, FileType type = GENERAL_FILE);
00076
             void createDatabase(const std::string& dirPath);
00081
             size_t createEmptyFile(const std::string& name, FileType type = GENERAL_FILE);
             void enableHelpOnStartup(bool help);
00084
             void exportProject(const std::string& filePath, bool includingEvents, bool
     includingRelations);
00098
             void exportTemplates(const std::vector<size_t>& eventTemplates, const std::vector<size_t>&
     relTemplates, const std::string& filename);
00102
            std::optional<Event*> getEvent(size_t id);
00105
             const std::map<size_t, std::unique_ptr<Event%& getEvents() const;</pre>
```

```
std::optional<File*> getFile(size_t id, FileType type = GENERAL_FILE);
              void getFileAbsolutePath(std::string& absolutePath, size_t id, FileType type = GENERAL_FILE);
00115
00119
              const std::map<size_t, std::unique_ptr<File>% getFiles(FileType type = GENERAL_FILE);
00122
              std::vector<std::string> getOrphanFiles();
00125
              Person* getMainPerson();
              const std::map<size_t, std::unique_ptr<Person%& getPersons();
std::optional<Person*> getPerson(size_t id);
00128
00132
00135
              const std::vector<std::string>& getProjectPaths() const;
00139
              std::optional<Relation*> getRelation(size_t id);
00142
              const std::map<size_t, std::unique_ptr<Relation>& getRelations();
00146
              std::vector<RelationSuggestion> getRelationSuggestions(size_t relId);
              Settings* getSettings();
00149
              void getUrlFile(size_t id, std::string& fileUrl, FileType type = GENERAL_FILE);
00154
00158
              bool importProject(const std::string& filePath);
00162
              bool importRootDir(const std::string& dirPath);
00166
              std::pair<bool, size_t> importTemplates(const std::string& filePath);
              bool isDirectorySet();
bool isSaved() const;
00169
00172
              void log(const std::string& error);
00181
              std::pair<bool, bool> openDatabase(const std::string& dirPath, std::string& errorMessage,
      std::string& backupFile);
00185
              bool openDatabase(std::string& errorMessage);
00189
              bool openSingleFileDatabase(const std::string& filePath);
              void printHtml(const std::string& dirPath);
00192
00195
              void printMainPersonHtml(const std::string& outputFile);
              void promoteRelation(size_t id);
00198
00200
              void removeBackup();
00203
              void removeEvent(size_t id);
00206
              void removeEventTemplate(size_t id);
00209
              size_t removeOrphanFiles();
00211
              void removePerson();
00214
              void removeRelation(size_t id);
00217
              void removeRelationTemplate(size_t id);
00222
              void renameFile(size_t id, const std::string& newFilename, FileType type);
00227
              bool restoreBackup(const std::string& backupFile, std::string& errorMessage);
00230
              void setMainPerson(Person* p);
              void setMainPerson(size_t id);
00233
              void setRelation(size_t relId, size_t pers1Id, size_t pers2Id, size_t templId);
00241
              void setUnsaved();
00244
              bool showHelpOnStartup();
              bool storeDatabase();
00247
              size_t templatesBasedOnEventTemplate(size_t templateId);
00251
00255
              size_t templatesBasedOnRelationTemplate(size_t templateId);
              void updateEventsWithTemplate(size_t templ);
00258
00262
              bool writeConfig(const std::string& newPath);
00263
          private:
00265
              std::map<size_t, std::unique_ptr<Event» allEvents_;</pre>
00267
              std::map<size_t, std::unique_ptr<File> allFiles_;
00269
              std::map<size_t, std::unique_ptr<File> allMedia_;
              std::map<size_t, std::unique_ptr<File> allNotes_;
00271
              std::map<size_t, std::unique_ptr<Person» allPersons_;</pre>
00275
              std::map<size_t, std::unique_ptr<Relation» allRelations_;
00279
              bool checkFileTypeConsistence(std::ostream& os, FileType type);
00281
              size_t event_index_;
              size_t file_index_;
00283
              void getGeneralOrphaFiles(std::vector<std::string>& files, const std::map<size_t,
00288
      std::unique_ptr<File% container, FileType type);</pre>
00297
              void getParentSuggestions(std::vector<RelationSuggestion>& suggestions, const Person* parent,
      const Person* child, size_t id, Trait trait,
00298
                                   const std::set<size_t>& forbiddenPersonParent, const std::set<size_t>&
      forbiddenPersonChild):
00305
              void getPartnersSuggestions(std::vector<RelationSuggestion>& suggestions, const Person*
      person, const Person* second, size_t id, const std::set<size_t>& forbiddenPersons);
              void getSiblingsSuggestions(std::vector<RelationSuggestion>& suggestions, const Person*
00312
      person, const Person* second, size_t id, const std::set<size_t>& forbiddenPersons);
00318
             bool loadDatabaseFile(const std::string& file, std::function<void(const Json::Value&)> reader,
      std::string& errorMessage);
00320
              Person* mainPerson :
00322
              size_t media_index_;
00324
              size_t note_index_;
00326
              bool openHelp;
00328
              Parser parser_;
00330
              size_t person_index_;
00333
              void printCss(const std::string& dirPath);
              void printFiles(std::ostream& os, const std::map<size_t, std::unique_ptr<File>& container,
00338
     const std::string& label);
00341
              void printEvents(std::ostream& os);
00346
              void printHtmlPerson(std::ostream& os, bool links, Person* p);
00349
              void printPeople(std::ostream& os);
00352
              void printRelations(std::ostream& os);
              std::vector<std::string> projectPaths;
void readJsonEvents(const Json::Value& value);
00354
00357
              void readJsonFiles(const Json::Value& value, std::map<size_t, std::unique_ptr<File>&
     container, const std::string& label, size_t& index);
00366
              void readJsonPeople(const Json::Value& value);
00369
              void readJsonRelations(const Json::Value& value);
00371
              size t relation index :
```

15.10 core/family_tree_items.cpp File Reference

Source file for classes closely related to family tree.

```
#include "family_tree_items.h"
```

Functions

```
• std::ostream & operator<< (std::ostream &os, const Event &e)
```

- std::ostream & operator<< (std::ostream &os, const Relation &r)
- std::ostream & operator<< (std::ostream &os, const File &f)

15.10.1 Detailed Description

Source file for classes closely related to family tree.

15.10.2 Function Documentation

15.10.2.1 operator<<() [1/3]

Using << operator on event to print event in JSON formatting.

Parameters

	os	Given output stream.
ĺ	е	Given event.

Returns

Changed output stream.

15.10.2.2 operator << () [2/3]

Output file to JSON format.

Parameters

os	Given stream.
f	Given file.

Returns

Changed stream.

15.10.2.3 operator << () [3/3]

Output the relation in JSON format.

Parameters

os	Given output stream.
r	Given relation.

Returns

Changed output stream.

15.11 core/family_tree_items.h File Reference

Header file for classes closely related to family tree such as Event, Relation and File.

```
#include <string>
#include <sstream>
#include <vector>
#include <ostream>
#include <json/json.h>
#include "config.h"
#include "date.h"
#include "strings.h"
```

Classes

class Event

Class holding data for a single event.

class Relation

Class holding data for a relationship.

• struct RelationSuggestion

Struct for relation suggestions.

· class File

Meta-data about one file (media or note). Its real path is [id]-[filename].

Functions

- std::ostream & operator<< (std::ostream &os, const Event &e)
 std::ostream & operator<< (std::ostream &os, const Relation &r)
- std::ostream & operator<< (std::ostream &os, const File &f)

15.11.1 Detailed Description

Header file for classes closely related to family tree such as Event, Relation and File.

15.11.2 Function Documentation

15.11.2.1 operator<<() [1/3]

Using << operator on event to print event in JSON formatting.

Parameters

os	Given output stream.
е	Given event.

Returns

Changed output stream.

15.11.2.2 operator << () [2/3]

```
std::ostream & operator<< (
          std::ostream & os,
          const File & f )</pre>
```

Output file to JSON format.

Parameters

os	Given stream.
f	Given file.

Returns

Changed stream.

15.11.2.3 operator << () [3/3]

Output the relation in JSON format.

Parameters

os	Given output stream.
r	Given relation.

Returns

Changed output stream.

15.12 family_tree_items.h

Go to the documentation of this file.

```
00002 #ifndef family_tree_items_
00003 #define family_tree_items_
00004
00005 #include <string>
00006 #include <sstream>
00007 #include <vector>
00008 #include <ostream>
00009 #include <json/json.h>
00010 #include "config.h"
00011 #include "date.h"
00012 #include "strings.h"
00015 class Event{
       public:
00016
00019
            explicit Event(Settings* settings);
00023
              void addPerson(size_t person, const std::string& role = events::NO_ROLE);
00025
              void clearPersons();
00028
              WrappedDate* date();
00031
              const WrappedDate& getDate() const;
00034
              size_t getId() const;
00037
              const std::vector<std::pair<std::string, size_t>& getPersons() const;
00040
              const std::string& getPlace() const;
const Settings& getSettings() const;
00043
00046
              size_t getTemplate() const;
00049
              const std::string& getText() const;
00053
               void printHtml(std::ostream& os, const std::vector<std::pair<std::string, std::string)</pre>
     persons);
00056
              void readJson(const Json::Value& value);
00060
              bool removePerson(size_t id);
00063
              WrappedDate& setDate();
00066
              void setId(size_t id);
00069
              void setPlace(const std::string& place);
00072
              void setTemplate(size_t templ);
00075
              void setText(const std::string& text);
00078
              std::string str() const;
00081
              std::vector<size_t> updateToTemplate();
00082
          private:
00084
              WrappedDate date_;
00086
               size_t id_;
88000
               std::vector<std::pair<std::string, size_t» persons_;</pre>
00090
               std::string place_;
00092
              Settings* settings_;
00094
              size_t template_;
00096
              std::string text_;
00097
00098 };
00099
00104 std::ostream& operator ((std::ostream& os, const Event& e);
00107 class Relation{
```

```
00108
         public:
           explicit Relation(Settings* settings);
00114
             size_t getFirstPerson() const;
00117
            size_t getId() const;
00120
            size_t getSecondPerson() const;
            size_t getTemplate() const;
00123
00126
            const std::string& getTitle() const;
00130
            size_t getTheOtherPerson(size_t current);
00134
            const std::string& getTheOtherPersonName(size_t current);
00137
             Trait getTrait();
00141
            bool isOlderGeneration(size_t id);
00145
            bool isParent (size_t personId);
00148
            bool isSameGenration();
00152
           bool isYoungerGeneration(size_t id);
secondPerson, const std::string& promoted);
00161 void readJson/const **
00158
             void printHtml(std::ostream& os, const std::string& firstPerson, const std::string&
        void readJson(const Json::Value& value);
00164
             void setId(size_t id);
             void setPersons(size_t person1, size_t person2);
00168
            void setTemplate(size_t templ);
00176
            std::string str(const std::string& firstPerson, const std::string& secondPerson) const;
00177
        private:
            size_t id_;
00179
00181
            size_t person1_;
size_t person2_;
00183
00185
             Settings* settings_;
00187
             size_t template_;
00188 };
00189
00194 std::ostream& operator (std::ostream& os, const Relation& r);
00195
00197 struct RelationSuggestion{
00198
       public:
00205
           RelationSuggestion(size_t lockedP, size_t suggestedP, bool par, bool sym, Trait t);
00207
             size_t lockedPerson;
00209
            bool parent;
00211
             size t suggestedPerson;
             bool symetrical;
00215
             Trait trait;
00216 };
00217
00219 class File(
       public:
00220
         File();
00222
00225
            const std::string& getFilename() const;
00228
             size_t getId() const;
00231
            std::string getRealName() const;
00234
            void readJson(const Json::Value& value);
           void setFilename(const std::string& fileName);
00237
00240
             void setId(size t id);
       private:
00241
00243
            std::string filename_;
00245
             size_t id_;
00246 };
00247
00254 #endif
```

15.13 core/file_parser.cpp File Reference

Source file for working with predefined database.

```
#include "file_parser.h"
```

15.13.1 Detailed Description

Source file for working with predefined database.

15.14 core/file parser.h File Reference

The header file for working with the database and other files.

```
#include <filesystem>
#include <iostream>
#include <fstream>
#include <string>
#include <sstream>
#include <json/json.h>
#include <chrono>
#include <iomanip>
#include <ctime>
#include <set>
#include <set>
#include <set>
#include "strings.h"
```

Classes

class Parser

Main class for working with the database.

Namespaces

· namespace parser

Namespace for all strings representing files and directories in the database.

Variables

```
• const std::string parser::FILES DIR = "Files"
```

Directory for all documents and files in general.

const std::string parser::JSON_CONFIG = "Config.json"

JSON file-name for configuration and templates.

const std::string parser::JSON_EVENTS = "Events.json"

JSON file-name for events.

const std::string parser::JSON_FILES = "Files.json"

JSON file-name for files meta-data.

const std::string parser::JSON_MEDIA = "Media.json"

JSON file-name for media meta-data.

const std::string parser::JSON_NOTES = "Notes.json"

JSON file-name for notes meta-data.

• const std::string parser::JSON_PERSONS = "Persons.json"

JSON file-name for persons.

const std::string parser::JSON_RELATIONS = "Relations.json"

JSON file-name for relations.

• const std::string parser::MEDIA DIR = "Media"

Directory for all pictures and other media.

const std::string parser::NOTES_DIR = "Notes"

Directory for all notes.

const std::string parser::ERROR_LOG = ".error.log"

File for writing error log.

15.15 file parser.h 301

15.14.1 Detailed Description

The header file for working with the database and other files.

15.15 file_parser.h

Go to the documentation of this file.

```
00002 #ifndef file_parser_h_
00003 #define file_parser_h_
00004
00005 #include <filesystem>
00006 #include <iostream>
00007 #include <fstream>
00008 #include <string>
00009 #include <sstream>
00010 #include <json/json.h>
00011 #include <chrono>
00012 #include <iomanip>
00013 #include <ctime>
00014 #include <set>
00015 #include "strings.h"
00016
00018 namespace parser{
       const std::string FILES_DIR = "Files";
          const std::string JSON_CONFIG = "Config.json";
const std::string JSON_EVENTS = "Events.json";
00022
00024
          const std::string JSON_FILES = "Files.json";
00026
          const std::string JSON_MEDIA = "Media.json";
00028
          const std::string JSON_NOTES = "Notes.json";
00030
          const std::string JSON_PERSONS = "Persons.json";
          const std::string JSON_RELATIONS = "Relations.json";
00034
00036
          const std::string MEDIA_DIR = "Media";
          const std::string NOTES_DIR = "Notes";
00038
          const std::string ERROR_LOG = ".error.log";
00040
00041 }
00042
00044 class Parser{
       public:
00045
00047
           Parser();
              void checkFileConsistency(std::set<std::string>& database, std::vector<std::string>& found,
00052
     const std::string& dir);
              void clear();
00058
              bool containsBackupFile(std::string& backupFile);
              bool copyFile(const std::string& filePath, const std::string& dir, std::string& fileName,
boo
size_t id);
00069
              void createEmptyFile(const std::string& dir, const std::string& fileName);
00073
              std::string createResourcesDir(const std::string& target);
00078
              std::string getAbsoluteFilePath(const std::string& dir, const std::string& fileName) const;
              void getFileUrl(const std::string& dir, const std::string& fileName, std::string& fileUrl)
      const;
00087
              bool isRootDirectorySet();
00090
              void log(const std::string& error);
              void makeNewDatabase(const std::string& dirPath);
std::pair<bool, std::vector<std::string& readConfig();</pre>
00093
00096
              bool readJSONFile(const std::string& fileName, Json::Value& root, bool inDatabase = true);
00104
              void removeBackup();
00108
              void removeFile(const std::string& filename, const std::string& dir);
00113
              void renameFile(const std::string& originalName, const std::string& changedName, const
     std::string& dir);
00116
              void restoreBackup(const std::string& backupFile);
00120
              bool setDatabase(const std::string& dirPath);
              void writeConfig(bool help);
00123
00127
              void writeConfig(const std::vector<std::string>& rootPaths, bool help);
00131
              void writeHtml(const std::string& html, const std::string& output);
              void writeHtml(const std::string& html, const std::string& dirPath, const std::string&
00136
     filename);
00141
              void writeJSON(const std::string& data, const std::string& file, bool inDatabase = true);
          private:
              bool containsBackup(std::string& backupFile, const std::string& filename);
00147
00149
              void createAllDirs();
00152
              void createJsonFile(const std::string& fileName);
00154
              std::filesystem::path root_;
00156
              std::filesystem::path configPath_;
00157 };
00158
00159 #endif
```

15.16 core/person.cpp File Reference

Source file for all classes closely related to person.

```
#include "person.h"
```

Functions

- std::ostream & operator<< (std::ostream &os, const VirtualDrive &vd)
- void printSizeTContainer (std::ostream &os, const std::vector< size_t > &container, const std::string &label)
- std::ostream & operator<< (std::ostream &os, const Person &p)

15.16.1 Detailed Description

Source file for all classes closely related to person.

15.16.2 Function Documentation

15.16.2.1 operator<<() [1/2]

```
std::ostream & operator<< (
          std::ostream & os,
          const Person & p )</pre>
```

Write the data about the person in JSON format.

Parameters

os	Is the given stream.
р	Is the given person.

Returns

Reference to the used output stream.

15.16.2.2 operator<<() [2/2]

Print virtual drive to JSON format.

Parameters

os	Given output stream.
vd	Given VirtualDrive.

Returns

Changed output stream.

15.16.2.3 printSizeTContainer()

Print to JSON formatting container of unsigned integers with given label.

Parameters

os	Given stream where to print.
container	Given container of ids.
label	The label of JSON array.

15.17 core/person.h File Reference

Header file for all classes closely related to person.

```
#include <string>
#include <vector>
#include <ostream>
#include <sstream>
#include <json/json.h>
#include "date.h"
#include "strings.h"
#include "config.h"
```

Classes

class VirtualDrive

Class for virtualization of folder structure for each person.

class Person

One person in the family tree.

Namespaces

namespace gender

Namespace for constants with gender enumeration.

Enumerations

• enum Gender { Other , Male , Female }

Gender types: Male, Female and Other.

enum FileType { GENERAL_FILE , MEDIA , NOTE }

Enumeration on special types of files.

Functions

- std::ostream & operator<< (std::ostream &os, const VirtualDrive &vd)
- std::string gender::str (Gender g)
- void printSizeTContainer (std::ostream &os, const std::vector< size_t > &container, const std::string &label)
- std::ostream & operator<< (std::ostream &os, const Person &p)

Variables

constexpr Gender gender::AllGenders [] = {Other, Male, Female}
 All genders in a list.

15.17.1 Detailed Description

Header file for all classes closely related to person.

15.17.2 Enumeration Type Documentation

15.17.2.1 FileType

enum FileType

Enumeration on special types of files.

Enumerator

GENERAL_FILE	
MEDIA	
NOTE	

15.17.2.2 Gender

enum Gender

Gender types: Male, Female and Other.

Enumerator

Other	
Male	
Female	

15.17.3 Function Documentation

15.17.3.1 operator<<() [1/2]

Write the data about the person in JSON format.

Parameters

os	Is the given stream.
p	Is the given person.

Returns

Reference to the used output stream.

15.17.3.2 operator <<() [2/2]

```
std::ostream & operator<< (
          std::ostream & os,
          const VirtualDrive & vd )</pre>
```

Print virtual drive to JSON format.

Parameters

os	Given output stream.
vd	Given VirtualDrive.

Returns

Changed output stream.

15.17.3.3 printSizeTContainer()

Print to JSON formatting container of unsigned integers with given label.

Parameters

os	Given stream where to print.
container	Given container of ids.
label	The label of JSON array.

Generated by Doxygen

15.18 person.h

Go to the documentation of this file.

```
00001
00002 #ifndef person_h_
00003 #define person_h_
00004
00005 #include <string>
00006 #include <vector>
00007 #include <ostream>
00008 #include <sstream>
00009 #include <json/json.h>
00010 #include "date.h"
00011 #include "strings.h"
00012 #include "config.h"
00013
00015 class VirtualDrive(
00016
         public:
00018
              VirtualDrive() = default;
               explicit VirtualDrive(const std::string& name);
00021
00024
               void addFile(size_t fileId);
00027
               VirtualDrive* addSubdrive();
              VirtualDrive* addSubdrive(const std::string& name);
void copyDrive(const VirtualDrive& other, size_t plusIndex = 0);
00031
00035
00038
               const std::vector<size_t>& getFiles() const;
00041
               const std::string& getName() const;
00044
               const std::vector<std::unique_ptr<VirtualDrive%& getSubdrives() const;</pre>
00047
               void readJson(const Json::Value& value);
00050
               void remove(const std::string& subfolderName);
00053
              void removeFile(size_t id);
void rename(const std::string& name);
00056
               void usedFiles(std::vector<size_t>& used) const;
00060
00062
               std::vector<size_t> files_;
00064
               std::string name_;
               std::vector<std::unique_ptr<VirtualDrive» subdrives_;
00066
00067 };
00068
00073 std::ostream& operator«(std::ostream& os, const VirtualDrive& vd);
00074
00076 enum Gender {Other, Male, Female};
00077
00079 namespace gender{
          constexpr Gender AllGenders[] = {Other, Male, Female};
00085
          std::string str(Gender g);
00086 }
00087
00089 enum FileType{GENERAL_FILE, MEDIA, NOTE};
00090
00092 class Person{
        public:
00095
00098
               void addEvent(size_t id);
00101
               void addRelation(size_t id);
00105
               void addTag(const std::string& tag, const std::string& value);
00108
               WrappedDate* birthDate():
00111
               WrappedDate* deathDate();
00115
               std::pair<bool, const std::string&> existsTag(const std::string& tag) const;
00120
               void exportJson(std::ostream& os, bool includingEvents, bool includingRelations);
00123
               const std::string& getAfterTitle() const;
00126
               const WrappedDate& getBirthDate() const;
00129
               const std::string& getBirthPlace() const;
               const WrappedDate& getDeathDate() const;
               const std::string& getDeathPlace() const;
00135
00138
               const std::vector<size_t>& getEvents() const;
               size_t getFather() const;
std::string getFullName() const;
const VirtualDrive& getFilesRoot(FileType type = GENERAL_FILE) const;
00141
00144
00148
               VirtualDrive* getFilesRootPointer(FileType type);
00152
               const std::string& getFrontTitle() const;
00155
00158
               Gender getGender() const;
00161
               size_t getId() const;
00164
               const std::string& getMaidenName() const;
00167
               size_t getMother() const;
00170
               const std::string& getName() const;
               size_t getPartner() const;
00176
               const std::vector<size_t>& getRelations() const;
00179
               const std::string& getSurname() const;
00182
               const std::vector<std::pair<std::string, std::string%& getTags() const;</pre>
00185
               void importJson(const Json::Value& value);
               bool isAlive() const;
00188
               void printHtml(std::ostream& os);
               void promoteRelation(size_t id, Trait type);
void readJson(const Json::Value& value);
00195
00198
00201
               void removeEvent(size_t id);
```

```
00204
              void removeRelation(size_t id);
00207
              void removeTag(const std::string& tag);
00210
              void setAfterTitle(const std::string& title);
00215
              void setBirthDate(int y, int m, int d);
00218
              std::string& setBirthPlace();
              void setDeathDate(int y, int m, int d);
std::string& setDeathPlace();
00223
00229
              void setFather(size_t father);
00234
              void setFilesRoot(const VirtualDrive& drive, FileType type = GENERAL_FILE, size_t plusIndex =
     0);
00237
              void setFrontTitle(const std::string& title);
00240
              void setGender(Gender g);
00243
              void setId(size_t id);
00246
              void setLives(bool lives);
00249
              std::string& setMaidenName();
00252
              void setMother(size_t mother);
00255
              std::string& setName();
            void setPartner(size_t id);
std::string& setSurname();
00258
00261
00264
             std::string str() const;
00268
              void updateSpecialRelation(size_t relId, Trait trait);
        private:
00269
            WrappedDate dateOfBirth_;
WrappedDate dateOfDeath_;
00271
00273
00275
              std::vector<size_t> events_;
00277
              size_t father_;
00279
              Gender gender_;
00281
              size_t id_;
              bool lives_;
00283
00285
             std::string maidenName_;
00287
              size t mother :
00289
              std::string name_;
00291
              size_t partner_;
00293
              std::string placeOfBirth_;
00295
             std::string placeOfDeath_;
00297
              std::vector<size_t> relations_;
00299
              VirtualDrive rootFileDrive_;
              VirtualDrive rootMediaDrive_;
00301
00303
              VirtualDrive rootNoteDrive_;
00305
              std::string surname_;
00307
              std::vector<std::pair<std::string, std::string» tags_;</pre>
00309
              std::string titleAfter_;
00311
              std::string titleInFront_;
00312 };
00318 void printSizeTContainer(std::ostream& os, const std::vector<size_t>& container, const std::string&
      label);
00319
00324 std::ostream& operator«(std::ostream& os, const Person& p);
00325
00326 #endif
```

15.19 core/strings.h File Reference

Is file containing all English strings.

```
#include <string>
```

Namespaces

· namespace person

Namespace for strings related to a person.

· namespace tagchooser

Namespace for strings shown in tag chooser dialog.

namespace addfile

Namespace for strings shown in add file dialog.

· namespace button

Namespace for general texts on buttons.

namespace error

Namespace for errors and exceptions messages.

namespace relation

Namespace for strings for default relations.

· namespace events

Namespace for strings for default events.

· namespace html

Namespace for html tags and everything with html.

namespace isonlabel

Namespace for all JSON labels.

Variables

• const std::string EMPTY_STRING = ""

Empty string.

• const std::string person::UNKNOWN_STR = "Unknown"

String for unknown tags.

const std::string person::SURNAME_STR = "Surname"

String for default surname.

• const std::string person::NAME_STR = "Name"

String for default name.

const std::string person::ROOT = "root"

String for default root directories.

const std::string person::DATE_FROM = "From: "

String for date interval from.

const std::string person::DATE_TO = " to: "

String for date interval to.

• const std::string tagchooser::CUSTOM_TAG = "+ Custom tag"

Last custom tag choice.

const std::string addfile::NONE = "None"

String for no extension.

const std::string button::ADD_NEW = "Add new"

Text for adding new element.

const std::string button::CANCEL = "Cancel"

Text for cancelling.

const std::string button::REMOVE = "Remove"

text for removing element.

const std::string error::UNKNOWN EXCEP STR = "Unknown exception catch."

String for catching unknown exception.

const std::string error::EXCEPTION_STR = "Exception:"

String for adding before exception description.

• const std::string error::CORRUPTED_DATABASE = "Given database is corrupted: "

String shown when database is corrupted.

• const std::string error::EMPTY_BOXES = "All boxes must not be empty."

String for showing that some boxes were left empty.

• const std::string error::NO_CHOSEN_FILE = "No file was chosen."

No file chosen and empty box.

• const std::string error::NO_ROLE = "Given role 'no role' cannot be used. It would be considered as no special role."

When person tries to add "no role" role, which is allocated for no roles.

• const std::string error::FORBIDDEN_CHARS = "Text cannot contain forbidden characters. &It; > \""

When in any box where inserted forbidden characters.

const std::string relation::FATHERHOOD = "Fatherhood"

String for Fatherhood.

const std::string relation::FATHERHOOD DESC = "Relation between father and his child."

String for Fatherhood description.

const std::string relation::FATHER = "Father"

String for father.

const std::string relation::CHILD = "Child"

String for child.

const std::string relation::MOTHERHOOD = "Motherhood"

String for Motherhood.

const std::string relation::MOTHERHOOD_DESC = "Relation between mother and her child."

String for Motherhood description.

const std::string relation::MOTHER = "Mother"

String for mother.

const std::string relation::PARTNERSHIP = "Partnership"

String for Partnership.

• const std::string relation::PARTNERSHIP_DESC = "Relation between two partners."

String for description of partnership.

const std::string relation::PARTNER = "Partner"

String for partner.

const std::string relation::MARRIAGE = "Marriage"

String for Marriage.

const std::string relation::MARRIAGE_DESC = "Bound by law between two people. Usually a man (husband) and a woman (wife)."

String for Marriage description.

• const std::string relation::WIFE = "Wife"

String for wife.

const std::string relation::HUSBAND = "Husband"

String for husband.

const std::string relation::ADOPTIVE FATHERHOOD = "Adoptive fatherhood"

String for title for adoptive fatherhood.

• const std::string relation::DESC_ADOPTIVE_FATHERHOOD = "Fatherhood provided by adopting a child."

String for description for adoptive fatherhood.

const std::string relation::ADOPTIVE FATHER = "Adoptive father"

String for adoptive father.

• const std::string relation::ADOPTED_CHILD = "Adopted child"

String for adopted child.

const std::string relation::ADOPTIVE_MOTHERHOOD = "Adoptive motherhood"

String for title for adoptive motherhood.

• const std::string relation::DESC_ADOPTIVE_MOTHERHOOD = "Motherhood provided by adopting a child."

String for description for adoptive motherhood.

const std::string relation::ADOPTIVE_MOTHER = "Adoptive mother"

String for adoptive father.

const std::string relation::BROTHERHHOD = "Brotherhood"

String for brotherhood.

const std::string relation::DESC_BROTHERHOOD = "Relation between two brothers."

String for brotherhood description.

const std::string relation::BROTHER = "Brother"

String for brother.

• const std::string relation::SISTERHOOD = "Sisterhood"

String for sisterhood.

const std::string relation::DESC_SISTERHOOD = "Relation between two sisters."

String for sisterhood description.

• const std::string relation::SISTER = "Sister"

String for sister.

• const std::string relation::SIBLINGS = "Siblings"

String for siblings.

• const std::string relation::DESC SIBLINGS = "Relation between brother and sister."

String for siblings description.

• const std::string events::WEDDING = "Wedding"

String for wedding.

• const std::string events::DESC WEDDING = "A social event mainly between soon to be wife and husband."

String for description of wedding.

const std::string events::GROOM = "Groom"

String for groom.

const std::string events::BRIDE = "Bride"

String for bride.

const std::string events::BEST MAN = "Best man"

String for best man.

• const std::string events::MAID_OF_HONOR = "Maid of Honor"

String for maid of honor.

• const std::string events::DIVORCE = "Divorce"

String for divorce.

• const std::string events::DESC_DIVORCE = "Divorce is the process of terminating a marriage or marital union."

String for divorce description.

• const std::string events::FORMER HUSBAND = "Former husband"

String for former husband.

• const std::string events::FORMER_WIFE = "Former wife"

String for former wife.

const std::string events::FUNERAL = "Funeral"

String for funeral.

• const std::string events::DESC_FUNERAL = "A funeral is a ceremony connected with the final disposition of a corpse, such as a burial or cremation, with the attendant observances."

String for funeral description.

const std::string events::DEAD_PERSON = "Dead person"

String for dead person.

const std::string events::GRADUATION = "Graduation"

String for graduation.

• const std::string events::DESC_GRADUATION = "Graduation is the awarding of a diploma to a student by an educational institution."

String for graduation description.

• const std::string events::GRADUATE = "Graduate"

String for graduate.

const std::string events::NO ROLE = "no role"

String for no role in event.

• const std::string html::RESOURCES = "resources"

Where will resources be saved.

const std::string html::PREFIX CLOSE = "/close-"

Prefix for close family diagram.

const std::string html::PREFIX_FAMILY_TREE = "/tree-"

```
Prefix for family tree diagram.
const std::string html::CUSTOM_CSS = "styles.css"
     Custom CSS file name.

    const std::string html::GENERAL INFO = "General information"

     General information.

    const std::string html::BIRTH DATE = "Birth date:"

     Birth date.

    const std::string html::BIRTH PLACE = "Birth place:"

     Birth place.
const std::string html::DEATH_DATE = "Date of death: "
• const std::string html::DEATH_PLACE = "Place of death: "
     Place of death.
• const std::string html::GENDER = "Gender: "
     Gender.
• const std::string html::CUSTOM_TAGS = "Custom tags:"
     Custom tags.
• const std::string html::DESCRIPTION = "Description:"
     Description.
const std::string html::NOTE = "Note:"
const std::string html::DATE = "Date: "
const std::string html::PLACE = "Place: "
• const std::string html::PERSONS = "Persons:"
• const std::string html::ALL_PERSONS = "All persons"
     All persons.
const std::string html::EVENTS = "Events"

    const std::string html::FAMILY_TREE = "Family tree"

     Family tree.

    const std::string html::FAMILY_TREE_DIAGRAM = "Family tree diagram"

     Family tree diagram.
const std::string html::RELATIONS = "Relations"
     Relations.

    const std::string html::CLOSE_FAMILY = "Close family"

     Close family.

    const std::string html::CLOSE_FAMILY_DIAGRAM = "Close family diagram"

     Close family diagram.

    const std::string jsonlabel::TITLE = "title"

     JSON Label for title.

    const std::string jsonlabel::ID = "id"

     JSON Label for id.

    const std::string jsonlabel::DESCRIPTION = "description"

     JSON Label for description.

    const std::string jsonlabel::CONTAINS_DATE = "contains date"

     JSON Label for if the event contains a date or not.

    const std::string jsonlabel::MORE_PEOPLE = "more people"
```

JSON Label for if the event contains more people.

```
    const std::string jsonlabel::SPECIAL_ROLES = "special roles"

      JSON Label for if the event has special roles.

    const std::string jsonlabel::NAME = "name"

     JSON Label for name.

    const std::string jsonlabel::FIRST_NAME = "first name"

      JSON Label for first name.
• const std::string jsonlabel::SECOND NAME = "second name"
      JSON Label for second name.
• const std::string jsonlabel::TRAIT = "trait"
      JSON Label for trait.

    const std::string jsonlabel::GEN DIFF = "generation difference"

      JSON Label for generation difference.

    const std::string jsonlabel::REL_TEMPL = "relation templates"

      JSON Label for relations templates.

    const std::string jsonlabel::EVE_TEMPL = "event templates"

      JSON Label for event templates.

    const std::string jsonlabel::TYPE = "type"

      JSON Label for type.
• const std::string jsonlabel::DATE = "date"
      JSON Label for date.
• const std::string jsonlabel::LAST_DATE = "last date"
     JSON Label for last date.
const std::string jsonlabel::TEXT = "text"
     JSON Label for text.
const std::string jsonlabel::TAGS = "tags"
     JSON Label for tags.

    const std::string jsonlabel::TAG = "tag"

      JSON Label for single tag.
const std::string jsonlabel::RELATIONS = "relations"
      JSON Label for relations.
const std::string jsonlabel::EVENTS = "events"
      JSON Label for events.
• const std::string jsonlabel::SURNAME = "surname"
      JSON Label for surname.

    const std::string jsonlabel::MAIDEN_NAME = "maiden name"

      JSON Label for maiden name.

    const std::string jsonlabel::VALUE = "value"

      JSON Label for value.

    const std::string jsonlabel::BIRTH = "birth"

      JSON Label for birth.

    const std::string jsonlabel::DEATH = "death"

      JSON Label for death.

    const std::string jsonlabel::VIRTUAL_DRIVE = "virtual drive"

      JSON Label for virtual drive.

    const std::string jsonlabel::MEDIA = "media"

      JSON Label for media.
const std::string jsonlabel::NOTES = "notes"
     JSON Label for notes.

    const std::string jsonlabel::FILES = "files"

      JSON Label for files.
```

const std::string jsonlabel::PERSONS = "persons"

JSON Label for persons.

JSON Label for for template.

const std::string jsonlabel::TEMPLATE = "template"

const std::string jsonlabel::TEMPLATES = "templates"

```
JSON Label for for templates.

    const std::string jsonlabel::FIRST PERSON = "first person"

     JSON Label for first person.

    const std::string jsonlabel::SECOND PERSON = "second person"

     JSON Label for second person.

    const std::string jsonlabel::PLACE = "place"

      JSON Label for place.

    const std::string jsonlabel::ROLE = "role"

     JSON Label for role.
const std::string jsonlabel::PERSON = "person"
      JSON Label for person.
const std::string jsonlabel::GENDER = "gender"
     JSON Label for gender.

    const std::string jsonlabel::LIVES = "lives"

      JSON Label for if the person lives or not.

    const std::string jsonlabel::FRONT TITLE = "title in front"

      JSON Label for title in front of a name.

    const std::string jsonlabel::AFTER_TITLE = "title after"

      JSON Label for title after the name.

    const std::string jsonlabel::FATHER = "father"

      JSON Label for father.
const std::string jsonlabel::MOTHER = "mother"
      JSON Label for mother.

    const std::string jsonlabel::PARTNER = "partner"

      JSON Label for partner.

    const std::string jsonlabel::MOVEABLE TABS = "moveable tabs"

     JSON Label for setting moveable tabs.

    const std::string jsonlabel::TAB POSITION = "tab position"

     JSON Label for tab position.

    const std::string jsonlabel::GLOBAL_MAIN_PERSON = "global main person"

      JSON Label for global main person.

    const std::string jsonlabel::CONTAINS_PLACE = "contains place"

      JSON Label if an event template contains a place.

    const std::string jsonlabel::SHOW_GENERAL_TAB = "show general tab"

      JSON Label for app settings if general tab should be visible.

    const std::string jsonlabel::SHOW_EVENT_TAB = "show event tab"

      JSON Label for app settings if event tab should be visible.
• const std::string jsonlabel::SHOW FILE TAB = "show file tab"
      JSON Label for app settings if file tab should be visible.

    const std::string jsonlabel::SHOW MEDIA TAB = "show media tab"

      JSON Label for app settings if media tab should be visible.

    const std::string jsonlabel::SHOW_NOTE_TAB = "show note tab"

      JSON Label for app settings if note tab should be visible.

    const std::string jsonlabel::SHOW_RELATION_TAB = "show relation tab"

      JSON Label for app settings if relation tab should be visible.
const std::string jsonlabel::APP_SETTINGS = "app settings"
```

JSON Label for app settings.

```
    const std::string jsonlabel::DRIVES = "drives"

     JSON Label for drives.

    const std::string jsonlabel::EXPORT = "export"

     JSON Label for export.
const std::string jsonlabel::RED = "red"
     JSON Label for red.
• const std::string jsonlabel::BLUE = "blue"
     JSON Label for blue.

    const std::string jsonlabel::GREEN = "green"

     JSON Label for green.

    const std::string jsonlabel::FONT_FAMILY = "font family"

     JSON Label for font family.
• const std::string jsonlabel::FONT_SIZE = "font size"
     JSON Label for font size.

    const std::string jsonlabel::HIGHLIGHTED_COLOR = "highlighted color"

     JSON Label highlighted color.
• const std::string jsonlabel::PROBANT_COLOR = "proband color"
     JSON Label for proband color.

    const std::string jsonlabel::PROMOTED COLOR = "promoted color"

     JSON Label promoted color.

    const std::string jsonlabel::STANDARD COLOR = "standard color"

     JSON Label standard color.

    const std::string jsonlabel::X_SIZE = "x size"

     JSON Label for size in the x axis.
• const std::string jsonlabel::Y SIZE = "y size"
     JSON Label for size in the y axis.

    const std::string jsonlabel::GEN SIZE UP = "number of generations up"

     JSON Label for how many generations are being shown upwards.

    const std::string jsonlabel::GEN SIZE DOWN = "number of generations down"

     JSON Label for how many generations are being shown downwards.
const std::string jsonlabel::DIR = "dir"
     JSON Label for directory.

    const std::string jsonlabel::ROOT = "root"

     JSON Label for root.
• const std::string jsonlabel::HELP = "help"
     JSON Label for help.

    const std::string jsonlabel::SPLITTER_POSITION_ONE = "splitter position one"

     JSON Label for splitter position one.
• const std::string jsonlabel::SPLITTER POSITION TWO = "splitter position two"
     JSON Label for splitter position two.

    const std::string jsonlabel::TEXT_COLOR = "text color"

      JSON Label for the color of text.
• const std::string jsonlabel::LINE_COLOR = "line color"
     JSON Label for the line color.

    const std::string jsonlabel::LINE_WIDTH = "line width"

     JSON Label for line width.

    const std::string jsonlabel::BORDER RADIUS = "radius"

     JSON Label border radius.
```

15.20 strings.h 315

15.19.1 Detailed Description

Is file containing all English strings.

15.19.2 Variable Documentation

15.19.2.1 EMPTY STRING

```
const std::string EMPTY_STRING = ""
```

Empty string.

15.20 strings.h

Go to the documentation of this file.

```
00002 #ifndef strings_h_
00003 #define strings_h_
00004
00005 #include <string>
00006
00008 const std::string EMPTY_STRING = "";
00009
00010 // -----
00011 // Person strings
00012 // ========
00013
00015 namespace person{
       const std::string UNKNOWN_STR = "Unknown";
const std::string SURNAME_STR = "Surname";
00019
          const std::string SURNAME_SIR = "Surnam
const std::string NAME_STR = "Name";
const std::string ROOT = "root";
const std::string DATE_FROM = "From: ";
const std::string DATE_TO = " to: ";
00021
00023
00025
00027
00028 }
00029
00030 // =====
00031 // Tag chooser strings
00032 // ======
00033
00035 namespace tagchooser{
00037
           const std::string CUSTOM_TAG = "+ Custom tag";
00038 }
00039
00040 // =====
00041 // Add file
00042 // ===
00043
00045 namespace addfile{
           const std::string NONE = "None";
00047
00048 }
00049
00051 // General buttons texts.
00052 // ==
00053
00055 namespace button{
00057 const std::string ADD_NEW = "Add new";
           const std::string CANCEL = "Cancel";
00059
00061
           const std::string REMOVE = "Remove";
00062 }
00063
00065 // Exceptions and errors strings.
00066 // -----
00067
00069 namespace error{
00071 const std::string UNKNOWN_EXCEP_STR = "Unknown exception catch.";
00073 const std::string EXCEPTION_STR = "Exception: ";
00075 const std::string CORRUPTED_DATABASE = "Given database is corrupted: ";
00077 const std::string EMPTY_BOXES = "All boxes must not be empty.";
          const std::string NO_CHOSEN_FILE = "No file was chosen.";
```

```
const std::string NO\_ROLE = "Given role' role' cannot be used. It would be considered as no
00083
          const std::string FORBIDDEN_CHARS = "Text cannot contain forbidden characters. < &qt; \"";
00084 }
00085
00087 // Default relations.
00088 // =====
00089
00091 namespace relation{
          const std::string FATHERHOOD = "Fatherhood";
00093
          const std::string FATHERHOOD_DESC = "Relation between father and his child.";
00095
          const std::string FATHER = "Father";
const std::string CHILD = "Child";
00097
00099
00101
          const std::string MOTHERHOOD = "Motherhood";
          const std::string MOTHERHOOD_DESC = "Relation between mother and her child.";
const std::string MOTHER = "Mother";
00103
00105
          const std::string PARTNERSHIP = "Partnership";
00107
          const std::string PARTNERSHIP_DESC = "Relation between two partners.";
          const std::string PARTNER = "Partner";
const std::string MARRIAGE = "Marriage";
00111
00113
00115
          const std::string MARRIAGE_DESC = "Bound by law between two people. Usually a man (husband) and a
     woman (wife).";
00117
          const std::string WIFE = "Wife";
00119
          const std::string HUSBAND = "Husband";
          const std::string ADOPTIVE_FATHERHOOD = "Adoptive fatherhood";
00121
          const std::string DESC_ADOPTIVE_FATHERHOOD = "Fatherhood provided by adopting a child.";
00123
          const std::string ADOPTIVE_FATHER = "Adoptive father";
const std::string ADOPTED_CHILD = "Adopted child";
const std::string ADOPTIVE_MOTHERHOOD = "Adoptive motherhood";
00125
00127
00129
          const std::string DESC_ADOPTIVE_MOTHERHOOD = "Motherhood provided by adopting a child.";
00131
00133
          const std::string ADOPTIVE_MOTHER = "Adoptive mother";
00135
          const std::string BROTHERHHOD = "Brotherhood";
00137
          const std::string DESC_BROTHERHOOD = "Relation between two brothers.";
          const std::string BROTHER = "Brother";
const std::string SISTERHOOD = "Sisterhood";
00139
00141
          const std::string DESC_SISTERHOOD = "Relation between two sisters.";
00143
          const std::string SISTER = "Sister";
00147
          const std::string SIBLINGS = "Siblings";
00149
          const std::string DESC_SIBLINGS = "Relation between brother and sister.";
00150 }
00151
00152 // ==
00153 // Default events.
00154 // ==
00155
00157 namespace events{
          const std::string WEDDING = "Wedding";
00159
          const std::string DESC_WEDDING = "A social event mainly between soon to be wife and husband.";;
00161
          const std::string GROOM = "Groom";
00163
          const std::string BRIDE = "Bride";
00165
          const std::string BEST_MAN = "Best man";
00167
00169
          const std::string MAID_OF_HONOR = "Maid of Honor";
00171
          const std::string DIVORCE = "Divorce";
          const std::string DESC_DIVORCE = "Divorce is the process of terminating a marriage or marital
00173
     union.";
00175
        const std::string FORMER_HUSBAND = "Former husband";
          const std::string FORMER_WIFE = "Former wife";
00177
00179
          const std::string FUNERAL = "Funeral";
00181
          const std::string DESC_FUNERAL = "A funeral is a ceremony connected with the final disposition of
     a corpse, such as a burial or cremation, with the attendant observances.";
00183
        const std::string DEAD_PERSON = "Dead person";
00185
          const std::string GRADUATION = "Graduation";
          const std::string DESC_GRADUATION = "Graduation is the awarding of a diploma to a student by an
     educational institution.";
00189
       const std::string GRADUATE = "Graduate";
          const std::string NO_ROLE = "no role";
00191
00192 }
00193
00195 // HTML Tags and everything with html.
00196 // ====
00197
00199 namespace html{
          const std::string RESOURCES = "resources";
00201
          const std::string PREFIX_CLOSE = "/close-";
          const std::string PREFIX_FAMILY_TREE = "/tree-";
00205
          const std::string CUSTOM_CSS = "styles.css";
const std::string GENERAL_INFO = "General information";
00207
00209
          const std::string BIRTH_DATE = "Birth date: ";
00211
          const std::string BIRTH_PLACE = "Birth place: "
00213
          const std::string DEATH_DATE = "Date of death:
          const std::string DEATH_PLACE = "Place of death: ";
00217
          const std::string GENDER = "Gender: ";
00219
          const std::string CUSTOM_TAGS = "Custom tags:";
const std::string DESCRIPTION = "Description:";
00221
00223
          const std::string NOTE = "Note:";
00225
```

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```
const std::string DATE = "Date: ";
           const std::string PLACE = "Place: ";
00229
           const std::string PERSONS = "Persons:";
00231
           const std::string ALL_PERSONS = "All persons";
00233
           const std::string EVENTS = "Events";
00235
           const std::string FAMILY_TREE = "Family tree";
00237
           const std::string FAMILY_TREE_DIAGRAM = "Family tree diagram";
           const std::string RELATIONS = "Relations";
00241
           const std::string CLOSE_FAMILY = "Close family";
00243
00245
           const std::string CLOSE_FAMILY_DIAGRAM = "Close family diagram";
00246 }
00247
00248 // =
00249 // JSON Labels.
00250 // =====
00251
00253 namespace jsonlabel{
           const std::string TITLE = "title";
00255
           const std::string ID = "id";
           const std::string DESCRIPTION = "description";
           const std::string CONTAINS_DATE = "contains date";
00261
           const std::string MORE_PEOPLE = "more people";
00263
           const std::string SPECIAL_ROLES = "special roles";
const std::string NAME = "name";
const std::string FIRST_NAME = "first name";
00265
00267
00269
           const std::string SECOND_NAME = "second name";
00271
00273
           const std::string TRAIT = "trait";
           const std::string GEN_DIFF = "generation difference";
const std::string REL_TEMPL = "relation templates";
00275
00277
           const std::string EVE_TEMPL = "event templates";
const std::string TYPE = "type";
00279
00281
00283
           const std::string DATE = "date";
           const std::string LAST_DATE = "last date";
00285
           const std::string TEXT = "text";
const std::string TAGS = "tags";
00287
00289
           const std::string TAGS = "tags";
const std::string TAG = "tag";
const std::string RELATIONS = "relations";
00291
00293
           const std::string EVENTS = "events";
           const std::string SURNAME = "surname";
00297
00299
           const std::string MAIDEN_NAME = "maiden name";
00301
           const std::string VALUE = "value";
           const std::string BIRTH = "birth";
00303
           const std::string DEATH = "death";
00305
           const std::string VIRTUAL_DRIVE = "virtual drive";
00307
           const std::string MEDIA = "media";
00309
           const std::string NOTES = "notes";
00311
           const std::string FILES = "files";
00313
           const std::string PERSONS = "persons";
00315
           const std::string TEMPLATE = "template";
00317
           const std::string TEMPLATES = "templates";
00319
           const std::string FIRST_PERSON = "first person";
           const std::string SECOND_PERSON = "second person";
00323
00325
           const std::string PLACE = "place";
           const std::string ROLE = "role";
00327
           const std::string PERSON = "person";
const std::string GENDER = "gender";
00329
00331
           const std::string LIVES = "lives";
           const std::string FRONT_TITLE = "title in front";
00335
           const std::string AFTER_TITLE = "title after";
00337
           const std::string FATHER = "father";
const std::string MOTHER = "mother";
00339
00341
           const std::string PARTNER = "partner";
00343
           const std::string MOVEABLE_TABS = "moveable tabs";
const std::string TAB_POSITION = "tab position";
00345
00347
00349
           const std::string GLOBAL_MAIN_PERSON = "global main person";
           const std::string CONTAINS_PLACE = "contains place";
00351
           const std::string SHOW_GENERAL_TAB = "show general tab";
00353
           const std::string SHOW_EVENT_TAB = "show event tab";
00355
           const std::string SHOW_FILE_TAB = "show file tab";
00357
           const std::string SHOW_MEDIA_TAB = "show media tab";
const std::string SHOW_NOTE_TAB = "show note tab";
00361
00363
           const std::string SHOW_RELATION_TAB = "show relation tab";
           const std::string APP_SETTINGS = "app settings";
const std::string DRIVES = "drives";
00365
00367
           const std::string EXPORT = "export";
00369
           const std::string RED = "red";
00371
00373
           const std::string BLUE = "blue";
           const std::string GREEN = "green";
const std::string FONT_FAMILY = "font family";
const std::string FONT_SIZE = "font size";
00375
00377
00379
           const std::string HIGHLIGHTED_COLOR = "highlighted color";
00381
00383
           const std::string PROBANT_COLOR = "proband color";
           const std::string PROMOTED_COLOR = "promoted color";
00385
           const std::string STANDARD_COLOR = "standard color";
00387
           const std::string X_SIZE = "x size";
const std::string Y_SIZE = "y size";
const std::string GEN_SIZE_UP = "number of generations up";
00389
00391
00393
```

15.21 graphics/dialogs.cpp File Reference

Source file for implementing all dialogs.

```
#include "dialogs.h"
```

15.21.1 Detailed Description

Source file for implementing all dialogs.

15.22 graphics/dialogs.h File Reference

This file contains all window dialogs that will be shown. These classes are relatively small but there are many of them.

```
#include "ui_date_dialog.h"
#include "ui_tag_chooser.h"
#include "ui_add_file.h"
#include "ui_relation_templates.h"
#include "ui_event_templates.h"
#include "ui_event_dialog.h"
#include "ui_relation_dialog.h"
#include "ui_help_dialog.h"
#include "ui_choose_person.h"
#include "ui_visual_settings.h"
#include "ui_export_templates.h"
#include "ui_export_project.h"
#include "ui_html_export.h"
#include "ui_picture_export.h"
#include "ui_suggestions.h"
#include "graphics_items.h"
#include <QtCore>
#include <QtWidgets>
#include <string>
#include <typeinfo>
#include <iostream>
#include "../core/family_tree.h"
#include "../core/strings.h"
#include "mainwindow.h"
```

Classes

· class DateDialog

Dialog for editing custom dates.

· class TagChooserDialog

Dialog for editing or creating tags for a person.

class AddFileDialog

Dialog for adding file.

· class RelationTemplateDialog

Dialog showing all templates and possibly editing them or creating new ones.

· class EventTamplatesDialog

Dialog showing all event templates and possibly editing them or creating new ones.

· class ChoosePersonDialog

Dialog for choosing person with find window. Parent have to have slot savePerson().

class RelationDialog

Dialog showing single relation for editing it.

class EventDialog

Dialog showing single event for editing it.

· class HelpDialog

Dialog with text edit to show help or other texts.

class VisualSettings

Dialog for editing and showing graphic settings.

class ExportTemplatesDialog

Dialog for exporting some of the event and relation templates.

· class ExportProjectDialog

Dialog for exporting project.

class PictureExport

Dialog for exporting diagram. To choose zoom of the picture.

· class HtmlExport

Dialog for exporting HTML for one person and all persons.

class SuggestionsDialog

Dialog for relation suggestions.

Namespaces

namespace Ui

Namespace for classes having all its user interface items.

15.22.1 Detailed Description

This file contains all window dialogs that will be shown. These classes are relatively small but there are many of them.

15.23 dialogs.h

Go to the documentation of this file.

```
00002 #ifndef dialogs_h_
00003 #define dialogs_h_
00005 // Header files created from .ui files.
00006 #include "ui_date_dialog.h"
00007 #include "ui_tag_chooser.h"
00008 #include "ui_add_file.h"
00009 #include "ui_relation_templates.h"
00010 #include "ui_event_templates.h"
00011 #include "ui_event_dialog.h"
00012 #include "ui_relation_dialog.h"
00013 #include "ui_help_dialog.h"
00014 #include "ui_choose_person.h"
00015 #include "ui_visual_settings.h"
00016 #include "ui_export_templates.h"
00017 #include "ui_export_project.h"
00018 #include "ui_html_export.h"
00019 #include "ui_picture_export.h"
00020 #include "ui_suggestions.h"
00021
00022 #include "graphics_items.h"
00023 #include <QtCore>
00024 #include <QtWidgets>
00025 #include <string>
00026 #include <typeinfo>
00027 #include <iostream>
00028 #include "../core/family_tree.h"
00029 #include "../core/strings.h"
00030 #include "mainwindow.h"
00031
00032 QT_BEGIN_NAMESPACE
00034 namespace Ui {
00036 class DateDialog;
00038
          class TagChooserDialog;
00040
          class AddFileDialog;
00042
          class RelationTemplateDialog;
00044
          class EventTamplatesDialog;
00046
          class EventDialog;
00048
          class RelationDialog;
          class HelpDialog;
00052
          class ChoosePersonDialog;
00054
           class VisualSettings;
00056
          class ExportTemplatesDialog;
00058
          class ExportProjectDialog;
00060
          class PictureExport;
00062
          class HtmlExport;
           class SuggestionsDialog;
00065 }
00066 QT_END_NAMESPACE
00067
00069 class DateDialog : public QDialog {
00070
        O OBJECT
          public:
              explicit DateDialog(FamilyTree* FT, WrappedDate* date = nullptr, QWidget* parent = nullptr);
00076
00078
               ~DateDialog();
00079
          public slots:
          void saveDate();
00081
00084
               void unknownDate(bool isUnknown);
          private:
00087
              WrappedDate* date_;
00089
               FamilyTree* FT_;
00091
               Ui::DateDialog *ui;
00092 };
00093
00095 class TagChooserDialog : public QDialog{
00096
00097
          public:
00103
               TagChooserDialog(FamilyTree* FT, const QString& tag, const QString& value, QWidget* parent =
nullptr);
00105 ~TagChooserDialog();
00106
           public slots:
              void changeVisibleWidgets(int index);
00109
               void saveTag();
00111
00112
          private:
00114
               FamilyTree* FT_;
00116
               bool newOne :
               Ui::TagChooserDialog *ui;
00118
00119 };
00120
00122 class AddFileDialog : public QDialog{
00123
           Q_OBJECT
```

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```
00124
         public:
              AddFileDialog(FileType type, const std::vector<std::string>& extensions, VirtualDrive*
00131
     parentDrive, FamilyTree* FT, QWidget* parent);
00133
             ~AddFileDialog();
00134
          public slots:
           void copyFile();
00136
              void createOrChooseFile();
00138
00141
              void openFile(QTreeWidgetItem* item);
00142
         private:
00144
             FamilyTree* FT_;
              size_t getId(QTreeWidgetItem* item);
00148
00150
              VirtualDrive* drive_;
00152
              FileType type_;
00154
              Ui::AddFileDialog* ui;
00155 };
00156
00158 class RelationTemplateDialog : public QDialog{
         O OBJECT
00159
00160
         public:
00164
             explicit RelationTemplateDialog(FamilyTree* FT, QWidget* parent = nullptr);
00166
              ~RelationTemplateDialog();
         public slots:
00167
00169
             void addDefaults();
00171
              void addNewTemplate();
00173
              void removeTemplate();
00175
              void saveTemplate();
00178
              void showTemplate(QTreeWidgetItem* item);
00179
         private:
00181
             bool addingNew_;
00183
              void clear();
              FamilyTree* FT_;
00185
00187
              void refreshListWidget();
00190
              void setEnabledWidgets(bool enabled);
00193
              void saveTemplate(RelationTemplate* rel);
00195
              Ui::RelationTemplateDialog* ui;
00196 };
00197
00199 class EventTamplatesDialog : public QDialog{
         Q_OBJECT
00200
00201
         public:
00205
             explicit EventTamplatesDialog(FamilyTree* FT, QWidget* parent = nullptr);
00207
              ~EventTamplatesDialog();
00208
         public slots:
00210
             void addDefaults();
00212
              void addNewRole();
00214
              void addNewTemplate
00216
              void removeRole();
00218
             void removeTemplate();
00220
             void saveTemplate();
00223
              void showTemplate(QTreeWidgetItem* item);
00224
         private:
00226
             bool addingNew_;
00228
              void clear();
00230
              FamilyTree* FT_
00232
              void refreshListWidget();
00235
              void saveTemplate(EventTemplate* event);
00238
              void setEnabledWidgets(bool enabled);
00240
              Ui::EventTamplatesDialog* ui;
00241 };
00242
00244 class ChoosePersonDialog : public QDialog{
00245
         O OBJECT
00246
         public:
00251
            ChoosePersonDialog(FamilyTree* FT, Person* person, QWidget* parent = nullptr);
00253
              ~ChoosePersonDialog();
         signals:
00254
00256
             void savePerson(Person* person);
         public slots:
00257
00259
             void clearFilter();
00261
              void filterPersons();
00263
              void saveSelectedPerson();
00264
          private:
00266
              FamilyTree* FT_;
00268
              Person* person ;
00270
              Ui::ChoosePersonDialog* ui;
00271 };
00272
00274 class RelationDialog : public QDialog{
00275
         O OBJECT
00276
         public:
00281
             explicit RelationDialog(FamilyTree* FT, QWidget* parent = nullptr, Relation* rel = nullptr);
00283
               ~RelationDialog();
00284
          public slots:
00286
             void chooseFirstPerson();
00288
              void chooseSecondPerson();
00290
              void savePerson(Person* person);
00292
              void saveRelation();
```

```
00294
             void showTemplateDetails();
              void switchPersons();
00296
00297
         private:
00299
             FamilyTree* FT_;
00301
              Person* person1_;
00303
              Person* person2_;
              Relation* rel_;
00305
00307
              bool saveFirstPerson_;
00309
              Ui::RelationDialog* ui;
00310 };
00311
00313 class EventDialog : public QDialog{
00314
         Q_OBJECT
00315
00320
          explicit EventDialog(FamilyTree* FT, QWidget* parent = nullptr, Event* event = nullptr);
00322
              ~EventDialog();
00323
         public slots:
00325
            void addEmptyRole();
00327
             void choosePerson();
00329
             void openCustomDate();
00331
              void refreshDates();
00334
             void refreshPersons(QTreeWidgetItem* item);
00336
             void removeEmptyRole();
             void removePerson();
00338
00340
             void saveEvent();
00343
              void savePerson(Person* person);
00345
             void showTemplate();
00346
        private:
00348
             WrappedDate date_;
00350
              Event * event_;
              FamilyTree* FT_;
00352
00354
              Person* main_;
00356
              void showEventDetails();
00358
              Ui::EventDialog* ui;
00359
00360 };
00361
00363 class HelpDialog: public QDialog{
        Q_OBJECT
00364
00365
         public:
00369
             explicit HelpDialog(FamilyTree* FT, QWidget* parent = nullptr);
00371
              ~HelpDialog();
00372
         public slots:
00375
             void openHelp(bool help);
00376
         private:
00378
              FamilyTree* FT_;
00380
             Ui::HelpDialog* ui;
00381 };
00382
00384 class VisualSettings : public QDialog{
00385
         Q_OBJECT
00386
         public:
00399
             VisualSettings(QColor probandColor, QColor promotedColor, QColor standardColor, QColor
     highlighted, int sizeX, int sizeY, QFont font,

QPen* pen, QPen* textPen, int borderRadius, QWidget* parent = nullptr);
00400
00402
              ~VisualSettings();
00403
          signals:
              void saveSettings(QColor probandColor, QColor promotedColor, QColor standardColor, QColor
00416
     highlightedColor, int sizeX, int sizeY, QFont font,
00417
                                QColor lineColor, QColor textColor, int lineWidth, int rounding);
00418
          public slots:
             void highlightedColor();
00420
00422
              void lineColor();
00424
              void refresh();
00426
             void probandColor();
00428
             void promotedColor();
00430
             void saveAndExit();
00432
             void standardColor();
00434
             void textColor();
00435
         private:
00437
             int borderRadius_;
00439
              QFont font_;
00441
              QColor highlightedColor_;
00443
              QPen pen_;
00445
              QColor probandColor_;
00447
              QColor promotedColor_;
00449
              QGraphicsScene* scene;
00451
              int sizeX_;
              int sizeY_;
00453
00455
              OColor standardColor:
              QPen textPen_;
00457
00459
              Ui::VisualSettings* ui;
00460 };
00461
00463 class ExportTemplatesDialog : public QDialog{
00464
         O OBJECT
00465
         public:
```

```
00469
             explicit ExportTemplatesDialog(FamilyTree* FT, QWidget* parent = nullptr);
00471
              ~ExportTemplatesDialog();
         public slots:
00472
00474
             void exportTemplates();
00475
         private:
00477
             FamilyTree* FT_;
00479
             Ui::ExportTemplatesDialog* ui;
00480 };
00481
00483 class ExportProjectDialog : public QDialog{
         O OBJECT
00484
00485
         public:
00489
             explicit ExportProjectDialog(FamilyTree* FT, QWidget* parent = nullptr);
00491
             ~ExportProjectDialog();
00492
         public slots:
         void checkPerson();
00494
00496
             void exportProject();
00497
         private:
00499
             FamilyTree* FT_;
00501
             Ui::ExportProjectDialog* ui;
00502 };
00503
00505 class PictureExport : public QDialog{
00506
         O OBJECT
00507
         public:
          explicit PictureExport(bool closeDiagram, QWidget* parent = nullptr);
00511
             ~PictureExport();
00513
00514
       public slots:
00516
             void exportDiagram();
         private:
00517
00519
             bool closeDiagram :
00521
             Ui::PictureExport* ui;
00522
00523 };
00524
00526 class HtmlExport : public QDialog{
00527
        Q_OBJECT
         public:
00535
           HtmlExport(FamilyTree* FT, bool all, int up, int down, QWidget* parent = nullptr);
00537
              ~HtmlExport();
        public slots:
00538
          void allAboveGenerations(bool all);
00541
             void allBelowGenerations(bool all);
00544
00546
             void exportAllHtml();
00548
             void exportMainHtml();
00549
         private:
00551
             FamilyTree* FT_;
00553
             Ui::HtmlExport* ui;
00554 };
00555
00557 class SuggestionsDialog: public QDialog{
00558
         Q_OBJECT
00559
         public:
00564
             SuggestionsDialog(FamilyTree* FT, std::vector<RelationSuggestion> suggestions, QWidget* parent
     = nullptr);
00566
              ~SuggestionsDialog();
         public slots:
00569
          void removeSuggestion();
00571
00574
             void selectedSuggestion(QTreeWidgetItem* item);
00576
             void swapPersons();
00578
             void switchedTemplate();
       private:
          std::vector<RelationTemplate*> fatherhoods;
00581
00583
             FamilyTree* FT_;
00585
             std::vector<RelationTemplate*> motherhoods;
00587
             std::vector<RelationTemplate*> partnerships;
00589
             std::vector<RelationTemplate*> siblings;
00591
             Ui::SuggestionsDialog* ui;
00592 };
00593
00594 #endif
```

15.24 graphics/graphics_items.cpp File Reference

This files contains implementation of all graphics items, that are inherited from Qt framework.

```
#include "graphics_items.h"
```

Functions

• bool containsForb (const QString &value)

15.24.1 Detailed Description

This files contains implementation of all graphics items, that are inherited from Qt framework.

15.24.2 Function Documentation

15.24.2.1 containsForb()

```
bool containsForb ( {\tt const\ QString\ \&\ \it value\ )}
```

To clarify that the value contains a forbidden character.

Parameters

value	Which value is checked.
-------	-------------------------

Returns

True if it contains any of forbidden characters.

15.25 graphics_items.h File Reference

This files contains all graphics items, that are inherited from Qt framework.

```
#include <QtCore>
#include <QtWidgets>
#include <string>
#include <typeinfo>
#include <iostream>
#include "../core/family_tree.h"
#include "../core/strings.h"
```

Classes

• class FileTreeItem

TreeWidget Item for general file.

· class ProjectItem

This is a tree widget item to be shown on a project view.

class EventRoleItem

Tree widget item for persons in events.

• class PersonsGraphicsItem

Box with persons information.

class CellGraphicsItem

Cell around all relations.

· class GraphicsView

Class for creating QGraphicsView with using wheel for zoom in and out. And grabing by mouse moves the view.

· class RelationItem

Class for showing relation suggestion and holding the data.

Enumerations

```
    enum ProjectItemType {
        PROJECT_PERSON, PROJECT_GROUP, PROJECT_FILE, PROJECT_MEDIA,
        PROJECT_NOTE, PROJECT_EVENTS, PROJECT_RELATIONS}
```

What type of a item is to be shown.

Functions

• bool containsForb (const QString &value)

15.25.1 Detailed Description

This files contains all graphics items, that are inherited from Qt framework.

15.25.2 Enumeration Type Documentation

15.25.2.1 ProjectItemType

```
enum ProjectItemType
```

What type of a item is to be shown.

Enumerator

PROJECT_PERSON	
PROJECT_GROUP	
PROJECT_FILE	
PROJECT_MEDIA	
PROJECT_NOTE	
PROJECT_EVENTS	
PROJECT_RELATIONS	

15.25.3 Function Documentation

15.25.3.1 containsForb()

326 File Documentation

To clarify that the value contains a forbidden character.

Parameters

value	Which value is checked.
-------	-------------------------

Returns

True if it contains any of forbidden characters.

15.26 graphics items.h

Go to the documentation of this file.

```
00002 #ifndef graphics_items_h_
00003 #define graphics_items_h_
00004
00005 #include <OtCore>
00006 #include <QtWidgets>
00007 #include <string>
00008 #include <typeinfo>
00009 #include <iostream>
00010 #include "../core/family_tree.h"
00011 #include "../core/strings.h"
00012
00016 bool containsForb(const QString& value);
00017
00019 class FileTreeItem : public QTreeWidgetItem{
        public:
00020
              FileTreeItem(VirtualDrive* drive, FamilyTree* FT, const QIcon& icon, FileType type);
00026
00032
               FileTreeItem(size_t id, FamilyTree* FT, const QIcon& icon, FileType type);
               void addFile(size_t id, const QIcon& icon);
00039
               void addSubDrive(const QString& folder);
00042
              VirtualDrive* getDrive();
00045
              size_t getId();
00048
              bool isDirectory();
00051
              bool removeFolder();
00055
              bool rename (const QString& name);
00056
        private:
00058
              VirtualDrive* drive_;
00060
               size_t fileId_;
00062
               FamilyTree* FT_;
00064
              bool isDir_;
00067
               void removeFile(size_t id);
00069
               FileType type_;
00070 };
00071
00073 enum ProjectItemType {PROJECT_PERSON, PROJECT_GROUP, PROJECT_FILE, PROJECT_MEDIA, PROJECT_NOTE, PROJECT_EVENTS, PROJECT_RELATIONS};
00076 class ProjectItem : public QTreeWidgetItem{
00077
00081
              explicit ProjectItem(ProjectItemType type, size_t id = 0);
              size_t getId() const;
ProjectItemType type() const;
00084
00087
00088
          private:
               size_t id_;
00092
               ProjectItemType type_;
00093 };
00094
00096 class EventRoleItem : public QTreeWidgetItem{
00097
        public:
00101
              explicit EventRoleItem(const std::string& role, size_t id = 0);
00104
00108
               void setPerson(const QString& name, size_t id = 0);
          private:
00109
00111
               size_t id_;
00112 };
00113
00115 class PersonsGraphicsItem : public QObject, public QGraphicsItem{
00116
00117
               PersonsGraphicsItem(const QStringList& lines, int sizex, int sizey, Person* p, qreal x, qreal
00132
      у,
                                     QColor color, QColor highlighted, QFont font, QWidget* parent, QPen* pen,
      QPen* textPen, int borderRadius);
```

```
00135
               ~PersonsGraphicsItem();
00138
              QRectF boundingRect() const override;
00143
              void paint(QPainter* painter, const QStyleOptionGraphicsItem* option, QWidget* widget)
     override;
00146
             OPainterPath shape() const override;
00147
         signals:
             void itemClicked(size_t personId);
00149
00150
          void hoverEnterEvent(QGraphicsSceneHoverEvent *event) override;
00153
00156
             void hoverLeaveEvent(QGraphicsSceneHoverEvent *event) override;
00159
             void mousePressEvent(QGraphicsSceneMouseEvent* event) override;
00160
        private:
         int borderRadius_;
int bold_text_;
00162
00164
00166
              QColor color_;
00168
             QFont font_;
00170
             QColor highlighted_;
00172
             bool hovered_;
00174
             QPen* pen_;
00176
              Person* person_;
00178
             int sizex_;
              int sizey_;
00180
00182
             QStringList textLines_;
00184
             QPen* textPen_;
00186
              greal x_;
00188
             qreal y_;
00189 };
00190
00192 class CellGraphicsItem : public QGraphicsItem{
        public:
00193
00201
              {\tt CellGraphicsItem(int\ sizex,\ int\ sizey,\ qreal\ x,\ qreal\ y,\ QPen*\ pen,\ int\ borderRadius);}
00204
              QRectF boundingRect() const override;
              void paint(QPainter* painter, const QStyleOptionGraphicsItem* option, QWidget* widget)
     override;
00212
              QPainterPath shape() const override;
00213
         private:
00215
             int borderRadius_;
             QPen* pen_;
00219
             int sizex_;
00221
             int sizey_;
00223
              qreal x_;
00225
             qreal y_;
00226 };
00227
00229 class GraphicsView : public QGraphicsView {
       public:
00230
00234
             explicit GraphicsView(QGraphicsScene* scene, QWidget* parent = nullptr);
         protected:
00235
00238
             void wheelEvent (OWheelEvent* event) override;
00239 };
00242 class RelationItem : public QTreeWidgetItem{
00243 public:
          RelationItem(FamilyTree* FT, const RelationSuggestion& suggestion, RelationTemplate* templ);
00248
00251
             Relation* getRelation();
00253
             void refreshTexts();
00254
       private:
00256
             FamilyTree* FT_;
00258
             Relation relation_;
00259 };
00260
00261 #endif
```

15.27 graphics/mainwindow.cpp File Reference

Implementation of all standard methods. For slots see mainwindow_slots.cpp.

```
#include "mainwindow.h"
```

15.27.1 Detailed Description

Implementation of all standard methods. For slots see mainwindow_slots.cpp.

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15.28 graphics/mainwindow.h File Reference

This header file contains everything around the main window.

```
#include <QtCore>
#include <QtWidgets>
#include <string>
#include <cstdlib>
#include "ui_mainwindow.h"
#include "dialogs.h"
#include "graphics_items.h"
#include "../core/family_tree.h"
#include "../core/strings.h"
```

Classes

· class MainWindow

Class representing main window using Qt library.

Namespaces

namespace Ui

Namespace for classes having all its user interface items.

15.28.1 Detailed Description

This header file contains everything around the main window.

15.29 mainwindow.h

Go to the documentation of this file.

```
00002 #ifndef mainwindow_h_
00003 #define mainwindow_h_
00004
00005 #include <QtCore>
00006 #include <QtWidgets>
00007 #include <string>
00008 #include <cstdlib>
00009
00010 #include "ui_mainwindow.h"
00011
00012 #include "dialogs.h"
00013 #include "graphics_items.h"
00014 #include "../core/family_tree.h"
00015 #include "../core/strings.h"
00016
00017 QT_BEGIN_NAMESPACE
00019 namespace Ui {
00021
          class MainWindow;
00022 }
00023 QT_END_NAMESPACE
00024
00026 class MainWindow : public QMainWindow {
00027
          Q_OBJECT
00028 public:
00031 explicit MainWindow(QWidget *parent = nullptr);
00033
           ~MainWindow();
```

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```
bool exportCloseFamilyDiagram(double scale, const std::string& filename = EMPTY_STRING);
00043
          bool exportTreeDiagram(double scale, const std::string& filename = EMPTY_STRING);
00048
          std::pair<int, int> setNumberOfGenerations(int up, int down);
00051
          static void openExternalFile(const std::string& fileURL);
00052 public slots:
          void addNewEvent();
00054
          void addNewFile();
00058
          void addNewFileFolder();
00060
          void addNewMedia();
00062
          void addNewMediaFolder();
00064
          void addNewNote();
00066
          void addNewNoteFolder();
00068
          void addNewPerson();
          void addNewRelation();
00070
00073
          void allAboveGenerations(bool selected);
00076
          void allBelowGenerations(bool selected);
00079
          void changeGenerationsDown(int value);
          void changeGenerationsUp(int value);
00082
          void checkStoreRefreshPersonsInfo();
00086
          void clearProjectFilter();
00088
          void clearProjectPaths();
00090
          void disableFileFolderPrompt();
          void disableMediaFolderPrompt();
00092
          void disableNoteFolderPrompt();
void editEvent(QTreeWidgetItem* item);
00094
00097
          void editRelation(QTreeWidgetItem* item);
00100
00103
          void editTag(QTreeWidgetItem* item = nullptr);
00105
          void enableFileFolderPrompt();
00107
          void enableMediaFolderPrompt();
00109
          void enableNoteFolderPrompt();
          void exportCloseFamilyDiagramDialog();
00111
00113
          void exportHtml();
00115
          void exportMainHtml();
00117
          void exportProject();
00119
          void exportTemplates();
00121
          void exportTreeDiagramDialog();
          void filterProjectItems();
00123
          void findPerson();
00127
          void fitTreeInView();
00129
          void importProject();
00131
          void importRootDir();
00133
          void importTemplates();
          void interractWithProjectItem(QTreeWidgetItem* item);
00138
00140
          void openBirthDateDialog();
          void openDeathDateDialog();
00142
00144
          void openEventTemplatesDialog();
00146
          void openExistingProject();
00148
          void openGraphicSettings();
          void openNewFamilyTreeProject();
00150
          void openRelationTemplatesDialog();
00152
          void openSelectedFile(QTreeWidgetItem* item);
00155
00158
          void openSelectedMedia(QTreeWidgetItem* item);
00161
          void openSelectedNote(QTreeWidgetItem* item);
00163
          void promoteRelation();
00165
          void refreshDates();
          void refreshEventTab();
00167
          void refreshGraphics();
00171
          void refreshProjectView();
00173
          void refreshRelationTab();
00175
          void refreshTabsWithFiles();
          void refreshTagsList();
00177
00179
          void removeEvent();
00181
          void removeFileFolder();
          void removeMediaFolder();
00183
00185
          void removeNoteFolder();
00187
          void removePerson();
00189
          void removeRelation();
00191
          void removeTag();
00193
          void renameFile();
00195
          void renameMedia();
00197
          void renameNote();
          bool saveDatabase();
00200
00213
          void saveGraphicsSetting(QColor probandColor, QColor promotedColor, QColor standardColor, QColor
     highlightedColor, int sizeX, int sizeY, QFont font,
00214
                                    QColor lineColor, QColor textColor, int lineWidth, int rounding);
00216
          void selectOlderGenerationOnly();
00218
          void selectSameGenerationOnly();
00220
          void selectYoungerGenerationOnly();
00223
          void setEnabledDeathAtributes(bool disabled);
          void setEventTabVisible();
00225
          void setFileTabVisible();
00227
          void setGeneralTabVisible();
          void setMainPerson(size_t personId);
00232
00234
          void setMediaTabVisible();
00236
          void setNoteTabVisible();
00238
          void setRelationTabVisible();
00240
          void setTabEast();
```

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```
00242
                void setTabNorth();
                 void setTabSouth();
00244
00246
                void setTabWest();
00248
                void showHelp();
                void showRenameFile();
00250
00252
                 void showRenameMedia();
                 void showRenameNote();
00256
                 void splitterChanged();
00258
                 void switchNewTreeProject();
00260
                void zoomIn();
00262
                void zoomOut();
00263 protected:
00266
                void closeEvent (OCloseEvent *event);
00267 private:
00272
                void addGeneralFile(FileType type, const std::vector<std::string>& extensions, FileTreeItem*
         item);
00275
                void addGeneralFolder(FileType type);
00277
                 int borderRadius_;
                 void clearUi();
                 void connectAllSlots();
00281
00284
                 void editEvent(size_t id);
00287
                 void editRelation(size_t id);
                 void enableGeneralFolderPrompt(bool visible, FileType type);
00291
                 void enableGeneralFolderRenamePrompt(FileType type);
00294
00300
                bool exportGeneralDiagram(const QString& filename, QGraphicsScene* gscene, double scale = 1);
00302
                 QFont font_;
00304
                 FamilyTree FT;
                 void drawCloseContainer(const std::vector<Relation*>& container,
00331
00332
                                                                       qreal sizeX, qreal sizeY, qreal topLeftX, qreal topLeftY,
00333
                                                                       qreal lineX1, qreal lineY1, qreal lineX2, qreal lineY2,
00334
                                                                       size_t partner, size_t mother, size_t father, int gap,
00335
                                                                       bool movex, bool movey);
00350
                 void drawCloseFamily();
00369
                void drawFamilyTree();
00382
                void drawGeneralGenerations(Person* p, greal width, greal midx, greal midy, int horizontalGap, int
          verticalGap, size_t barrier,
00383
                                                                       const std::vector<size_t>& container, bool up,
00384
                                                                       std::function<std::pair<size_t, size_t>(Person*, size_t, size_t)>
          numberFunc,
00385
                                                                       std::function<void(Person*, greal, greal, greal, int, int,
         size_t) > drawFunc);
00401
                 \verb|void| \ draw Older Generations| (\texttt{Person*} \ p, \ qreal \ width, \ qreal \ midx, \ qreal \ midy, \ int \ horizontal \texttt{Gap}, \ hori
          verticalGap, size t barrier);
00406
                 void drawPartner(greal canvasMidX, greal canvasMidY, int horizontalGap);
                 void drawYoungerGenerations (Person* p, greal width, greal midx, greal midy, int horizontalGap, int
00424
         verticalGap, size_t barrier);
00433
                std::pair<size_t, size_t> generalGenerationNumber(Person* p, size_t soFar, size_t barrier,
00434
                                                                                                const std::vector<size_t>& container, bool up,
00435
                                                                                                std::function<std::pair<size_t, size_t>(Person*,
         size_t, size_t) > func);
00437
                int genSizeDown_;
00439
                 int genSizeUp_;
00441
                 QColor highlightedColor_;
00443
                 QPen linePen_;
00445
                 void loadSettings();
                 std::pair<size_t, size_t> olderGenerationNumber(Person* p, int soFar, size_t barrier);
00451
                 void openCustomDateDialog(WrappedDate* date);
00454
00458
                 void initializeProjectSubView(ProjectItem* parent, Person* person);
00460
                 void initializeProjectView();
00464
                 void openGeneralFile(QTreeWidgetItem* item, FileType type);
00467
                 void openGeneralProject(const std::string& dirPath);
00469
                 OColor probandColor;
00471
                 void refreshPersonsInfoTab();
                 void refreshProjectEventsView(ProjectItem* item, Person* person);
00475
                 void refreshProjectGeneralFilesView(const QIcon& containerIcon, const QString& containerName,
00483
         const QIcon& fileIcon, FileType type, ProjectItem* item, Person* person);
00487
                void refreshProjectFilesView(ProjectItem* item, Person* person);
                 void refreshProjectMediaView(ProjectItem* item, Person* person);
void refreshProjectNoteView(ProjectItem* item, Person* person);
00491
00495
                 void refreshProjectRelationsView(ProjectItem* item, Person* person);
00499
00501
                 void refreshUi();
00504
                 void removeGeneralFolder(FileType type);
00507
                 void renameGeneralFileItem(FileType type);
00509
                 QGraphicsScene* scene;
00511
                 void savePersonsInfo();
00513
                 void setUiElements();
00518
                 void showGeneralFiles(QTreeWidget* widget, VirtualDrive* root, FileType type);
00520
                 int sizeX_;
                 int sizeY_;
00522
00524
                 QColor promotedColor_;
00526
                 OColor standardColor;
                 QPen textPen_;
00530
                 QGraphicsScene* treeScene;
00532
                 GraphicsView* treeView;
00534
                Ui::MainWindow* ui;
00540
                 std::pair<size_t, size_t> youngerGenerationNumber(Person* p, size_t soFar, size_t barrier);
00541 };
```

```
00542
00543 #endif
```

15.30 graphics/mainwindow_slots.cpp File Reference

Implementation of all slots of the main window. For other methods see mainwindow.cpp.

```
#include "mainwindow.h"
```

15.30.1 Detailed Description

Implementation of all slots of the main window. For other methods see mainwindow.cpp.

- 15.31 graphics/resources/icons.md File Reference
- 15.32 help texts/events.md File Reference
- 15.33 help texts/files.md File Reference
- 15.34 help texts/generic.md File Reference
- 15.35 help texts/layout.md File Reference
- 15.36 help texts/persons.md File Reference
- 15.37 help texts/relations.md File Reference
- 15.38 index.md File Reference
- 15.39 main.cpp File Reference

The main file for starting the application.

```
#include "graphics/mainwindow.h"
#include "core/strings.h"
#include <iostream>
```

File Documentation

Functions

• int main (int argc, char **argv)

15.39.1 Detailed Description

The main file for starting the application.

15.39.2 Function Documentation

15.39.2.1 main()

```
int main ( \label{eq:int_argc} \text{int } \textit{argc,} \label{eq:char_argv} \text{char } ** \textit{argv} \text{)}
```

Main function for the application.

Parameters

argc	Number of arguments.
argv	List of all arguments.

Returns

The exit code of the application.

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