

Jobify

1.0.0

Generated by Doxygen 1.8.11

Contents

Chapter 1

Jobify_AppServer

CI: Coverage:

Application Server para el proyecto de Taller de Programación II

Instalación:

Las únicas librerías que usamos y no compilamos directamente son leveldb y restclient-cpp, por lo que es necesario ejecutar los comandos

```
sudo apt-get install libsnappy-dev libleveldb1 libleveldb-dev sudo apt-get install autoconf libtool git git clone
https://github.com/mrtazz/restclient-cpp.git cd restclient-cpp ./autogen.sh ./configure sudo
make install export LD_LIBRARY_PATH=/usr/local/lib:$LD_LIBRARY_PATH cd ..
```

luego a compilar...

```
mkdir build cd build cmake .. make
```

y para ejecutar

```
cd build ./Jobify_AppServer
```

Documentación API: [link](#)

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

ApiError	??
ClientSharedServer	??
DatabaseManager	??
DB	??
AccountsDB	??
ChatsDB	??
ImagesDB	??
SessionsDB	??
UsersDB	??
exception	
InvalidUsernamePasswordException	??
KeyAlreadyExistsException	??
KeyDoesntExistException	??
TokenInvalidException	??
JsonController	
ChatController	??
ProfileController	??
SharedServerController	??
NotificationSender	??
Server	
JobifyServer	??
SessionManager	??

Chapter 3

Class Index

3.1 Class List

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

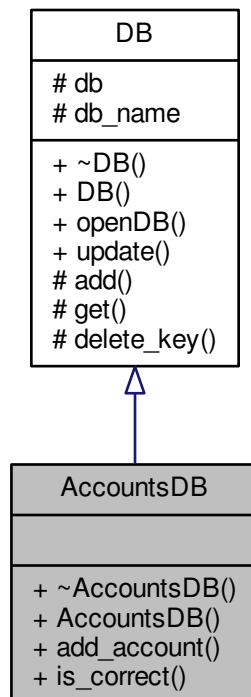
AccountsDB	??
ApiError	??
ChatController	??
ChatsDB	??
ClientSharedServer	??
DatabaseManager	??
DB	??
ImagesDB	??
InvalidUsernamePasswordException	??
JobifyServer	??
KeyAlreadyExistsException	??
KeyDoesntExistException	??
NotificationSender	??
ProfileController	??
SessionManager	??
SessionsDB	??
SharedServerController	??
TokenInvalidException	??
UsersDB	??

Chapter 4

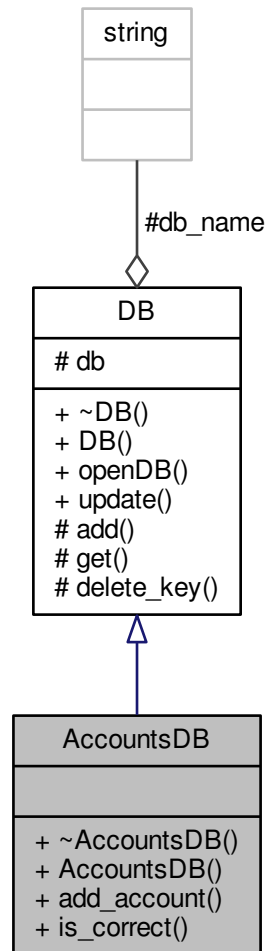
Class Documentation

4.1 AccountsDB Class Reference

Inheritance diagram for AccountsDB:



Collaboration diagram for AccountsDB:



Public Member Functions

- **AccountsDB** (const std::string &db_name)
- bool **add_account** (std::string username, std::string password)
- bool **is_correct** (std::string username, std::string password)

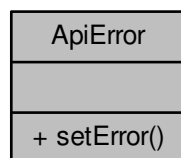
Additional Inherited Members

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

- src/databases/AccountsDB.h
- src/databases/AccountsDB.cpp

4.2 ApiError Class Reference

Collaboration diagram for ApiError:



Static Public Member Functions

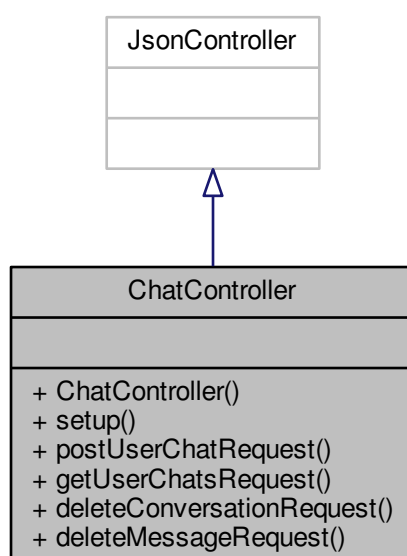
- static void **setError** (Mongoose::JsonResponse &response, int code, const char *message)

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

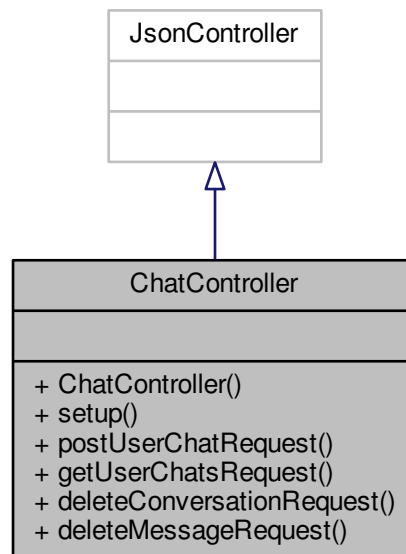
- `src/ApiError.h`

4.3 ChatController Class Reference

Inheritance diagram for ChatController:



Collaboration diagram for ChatController:



Public Member Functions

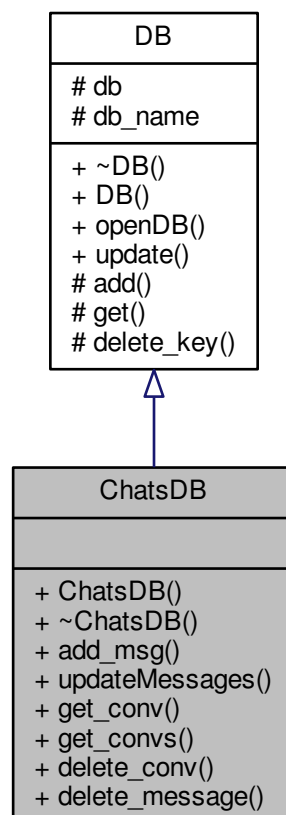
- **ChatController** ([DatabaseManager](#) *pManager, [SessionManager](#) *pSessionManager, std::string fire←ServerToken)
- void **setup** ()
- void **postUserChatRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getUserChatsRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteConversationRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteMessageRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)

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

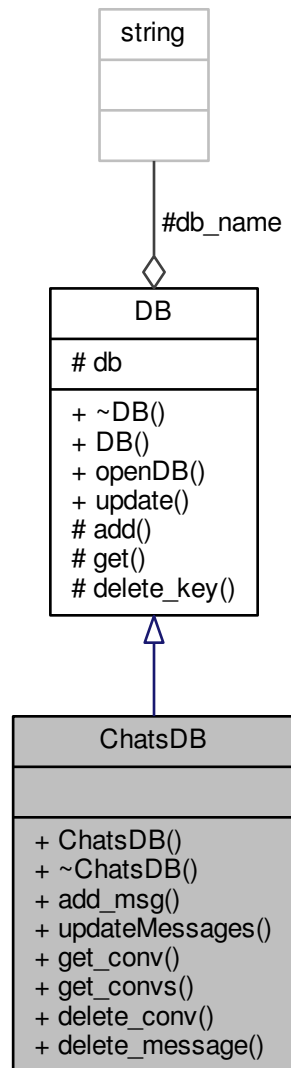
- src/ChatController.h
- src/ChatController.cpp

4.4 ChatsDB Class Reference

Inheritance diagram for ChatsDB:



Collaboration diagram for ChatsDB:



Public Member Functions

- **ChatsDB** (std::string &dbName)
- bool **add_msg** (std::string basic_string, std::string basicString, std::string basic_string1)
- bool **updateMessages** (std::string, Json::Value)
- bool **get_conv** (std::string username, std::string username2, Json::Value *conversation)
- bool **get_convs** (std::string username, Json::Value *conversations, [UsersDB](#) *pDB)
- bool **delete_conv** (std::string username, std::string username2)
- bool **delete_message** (std::string username1, std::string username2, std::string idMensaje)

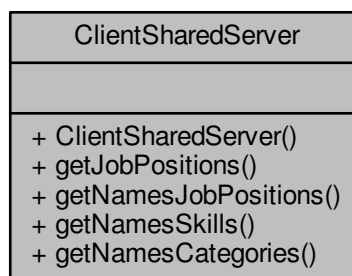
Additional Inherited Members

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

- src/databases/ChatsDB.h
- src/databases/ChatsDB.cpp

4.5 ClientSharedServer Class Reference

Collaboration diagram for ClientSharedServer:



Public Member Functions

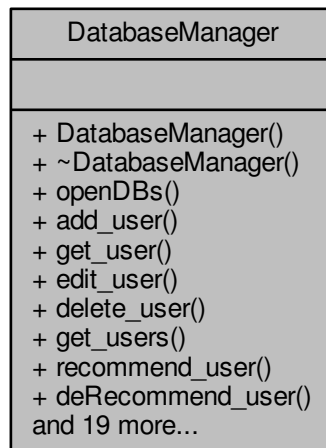
- **ClientSharedServer** (std::string url)
- std::string **getJobPositions** ()
- bool **getNamesJobPositions** (Json::Value *names)
- bool **getNamesSkills** (Json::Value *names)
- bool **getNamesCategories** (Json::Value *names)

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

- src/ClientSharedServer.h
- src/ClientSharedServer.cpp

4.6 DatabaseManager Class Reference

Collaboration diagram for DatabaseManager:



Public Member Functions

- **DatabaseManager** (std::string usersDbName, std::string sessionsDbName, std::string chatsDbName, std::string accountsDbName, std::string imagesDbName)
- bool **openDBs** ()
- bool **add_user** (const string &username, Json::Value user)
- Json::Value **get_user** (const string &username)
- bool **edit_user** (const string &username, Json::Value userEdited)
- bool **delete_user** (const string &username)
- bool **get_users** (Json::Value &result)
- bool **recommend_user** (const string &usernameFrom, const string &usernameTo)
- bool **deRecommend_user** (const string &usernameFrom, const string &usernameTo)
- bool **addContact** (const string &usernameFrom, const string &usernameTo)
- bool **removeContact** (const string &usernameFrom, const string &usernameTo)
- bool **add_session** (const std::string &token, Json::Value session)
- Json::Value **get_session** (const std::string &token)
- bool **delete_session** (const std::string &token)
- bool **add_account** (string username, string password)
- bool **is_correct** (std::string username, std::string password)
- bool **add_msg** (string basic_string, string basicString, string basic_string1)
- bool **get_conv** (string username, string username2, Json::Value *conversation)
- bool **get_convs** (string username, Json::Value *conversations)
- bool **delete_conv** (string username, string username2)
- bool **delete_msg** (string username1, string username2, string idMensaje)
- bool **get_users_by** (string sort_by, int nFilter, string job, string skill, Json::Value &result, int i, string basic_string)
- Json::Value **get_image** (string username)
- bool **add_image** (const std::string &username, Json::Value &image)

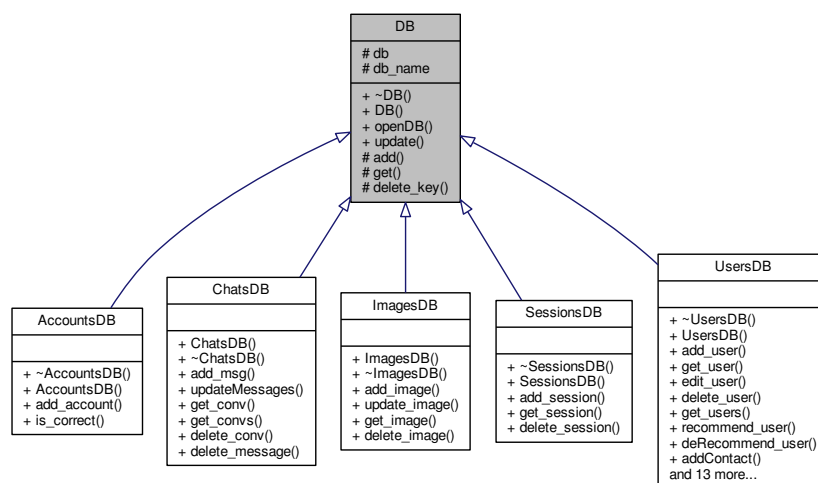
- bool **delete_image** (const std::string &username)
- void **filter_pos** (Json::Value &result, int nDistance, string coordinates)
- void **sort_by_distance** (Json::Value &result, string coordinates)
- bool **get_user_contacts** (string &username, Json::Value &contacts)

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

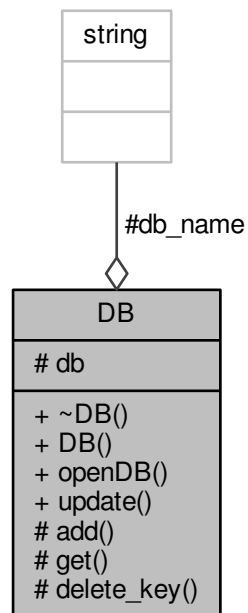
- src/DatabaseManager.h
- src/DatabaseManager.cpp

4.7 DB Class Reference

Inheritance diagram for DB:



Collaboration diagram for DB:



Public Member Functions

- **DB** (const std::string &db_name)
- bool **openDB** ()
- bool **update** (const std::string &key, Json::Value value)

Protected Member Functions

- bool **add** (const std::string &key, Json::Value value)
- Json::Value **get** (const std::string &key)
- bool **delete_key** (const std::string &key)

Protected Attributes

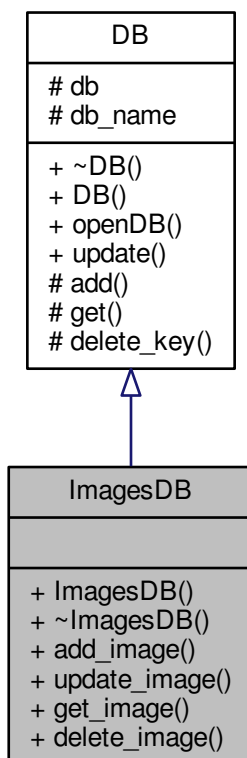
- leveldb::DB * **db**
- std::string **db_name**

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

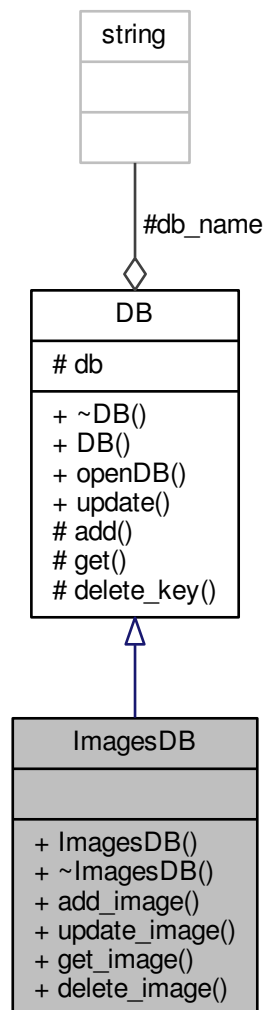
- src/databases/DB.h
- src/databases/DB.cpp

4.8 ImagesDB Class Reference

Inheritance diagram for ImagesDB:



Collaboration diagram for ImagesDB:



Public Member Functions

- **ImagesDB** (const std::string &db_name)
- bool **add_image** (const std::string &username, Json::Value &image)
- bool **update_image** (const std::string &username, Json::Value &image)
- Json::Value **get_image** (const std::string &username)
- bool **delete_image** (const std::string &username)

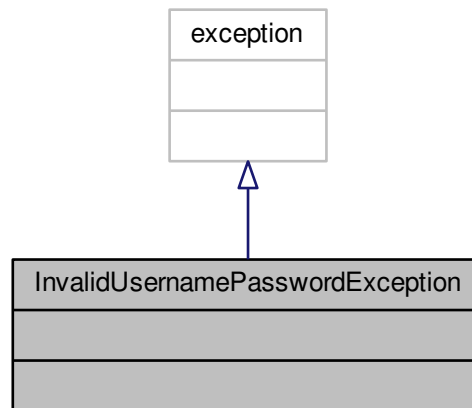
Additional Inherited Members

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

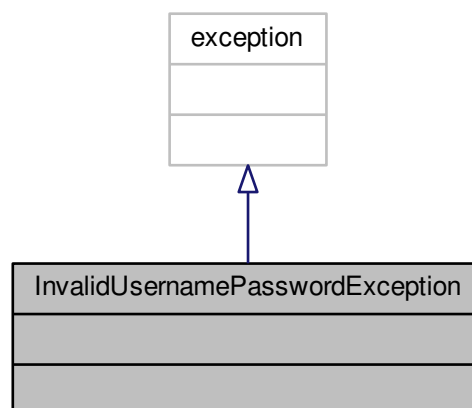
- src/databases/ImagesDB.h
- src/databases/ImagesDB.cpp

4.9 InvalidUsernamePasswordException Class Reference

Inheritance diagram for InvalidUsernamePasswordException:



Collaboration diagram for InvalidUsernamePasswordException:

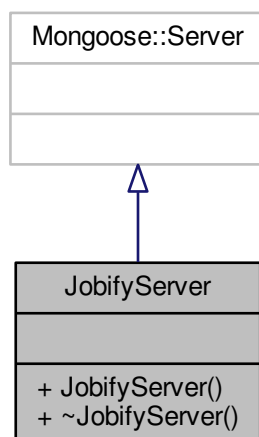


The documentation for this class was generated from the following file:

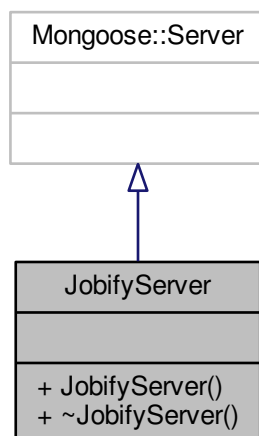
- `src/exceptions/InvalidUsernamePasswordException.h`

4.10 JobifyServer Class Reference

Inheritance diagram for JobifyServer:



Collaboration diagram for JobifyServer:



Public Member Functions

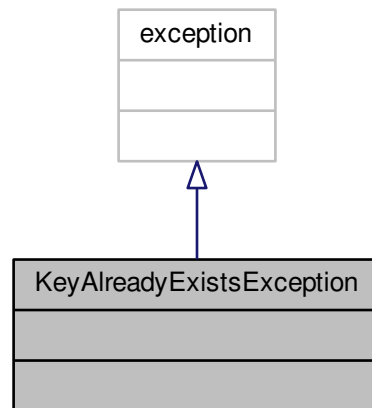
- **JobifyServer** (int port)

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

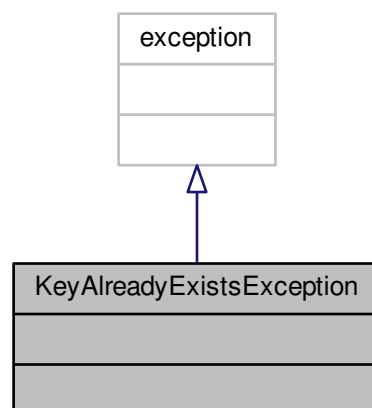
- `src/JobifyServer.h`
- `src/JobifyServer.cpp`

4.11 KeyAlreadyExistsException Class Reference

Inheritance diagram for KeyAlreadyExistsException:



Collaboration diagram for KeyAlreadyExistsException:

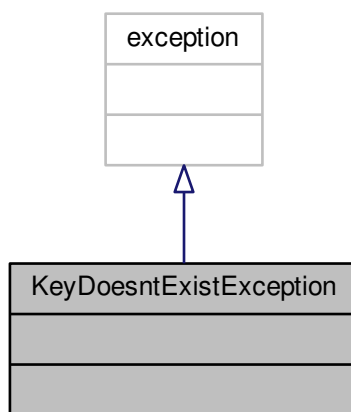


The documentation for this class was generated from the following file:

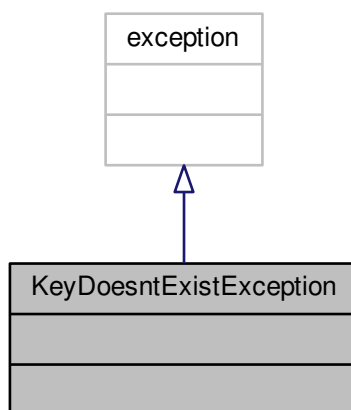
- `src/exceptions/KeyAlreadyExistsException.h`

4.12 KeyDoesntExistException Class Reference

Inheritance diagram for KeyDoesntExistException:



Collaboration diagram for KeyDoesntExistException:

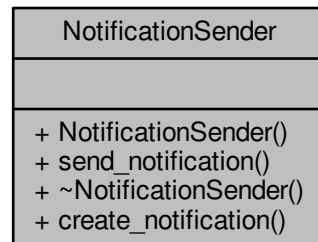


The documentation for this class was generated from the following file:

- `src/exceptions/KeyDoesntExistException.h`

4.13 NotificationSender Class Reference

Collaboration diagram for NotificationSender:



Public Member Functions

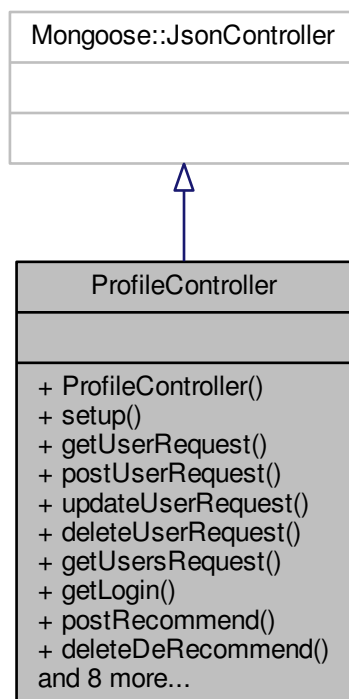
- **NotificationSender** (const std::string &server_key)
- void **send_notification** (std::string from, std::string dest_reg_token, std::string message)
- void **create_notification** (Json::Value ¬ification, std::string &from, std::string &dest_reg_token, std::string &message)

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

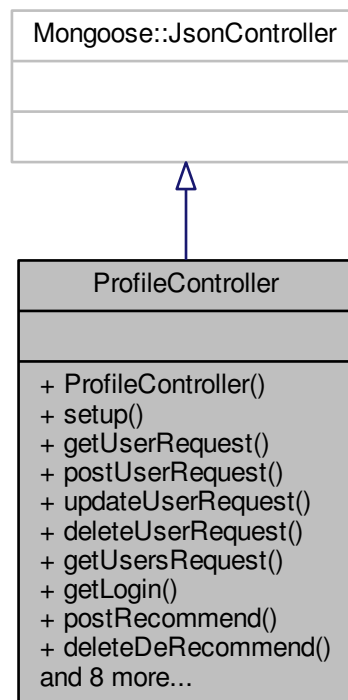
- src/NotificationSender.h
- src/NotificationSender.cpp

4.14 ProfileController Class Reference

Inheritance diagram for ProfileController:



Collaboration diagram for ProfileController:



Public Member Functions

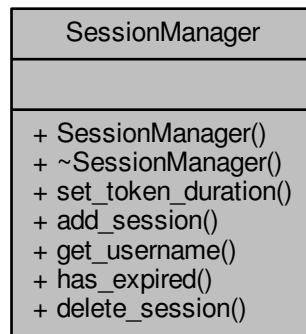
- **ProfileController** ([DatabaseManager](#) *db, [SessionManager](#) *sessionManager)
- void **setup** ()
- void **getUserRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **postUserRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **updateUserRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteUserRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getUsersRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getLogin** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **postRecommend** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteDeRecommend** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getUserContacts** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **postAddContact** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteRemoveContact** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getFilteredUsers** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getUserImage** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **postUserImage** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **deleteUserImage** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **updateUserImage** (Mongoose::Request &request, Mongoose::JsonResponse &response)

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

- src/ProfileController.h
- src/ProfileController.cpp

4.15 SessionManager Class Reference

Collaboration diagram for SessionManager:



Public Member Functions

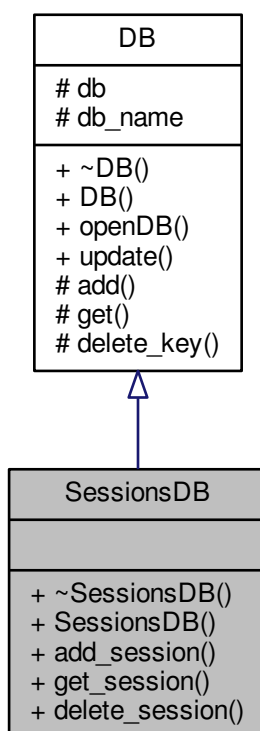
- **SessionManager** ([DatabaseManager](#) *dbManager, double token_duration)
- void **set_token_duration** (double new_duratio)
- std::string **add_session** (std::string &username, std::string &password)
- std::string **get_username** (std::string &token)
- bool **has_expired** (std::string &token)
- bool **delete_session** (std::string &token)

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

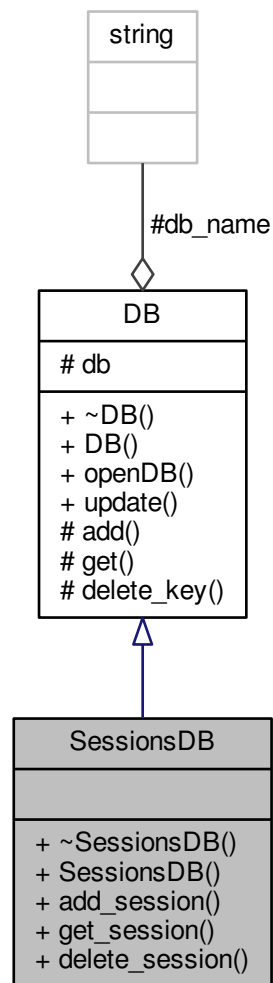
- src/SessionManager.h
- src/SessionManager.cpp

4.16 SessionsDB Class Reference

Inheritance diagram for SessionsDB:



Collaboration diagram for SessionsDB:



Public Member Functions

- **SessionsDB** (const std::string &db_name)
- bool **add_session** (const std::string &token, Json::Value session)
- Json::Value **get_session** (const std::string &token)
- bool **delete_session** (const std::string &token)

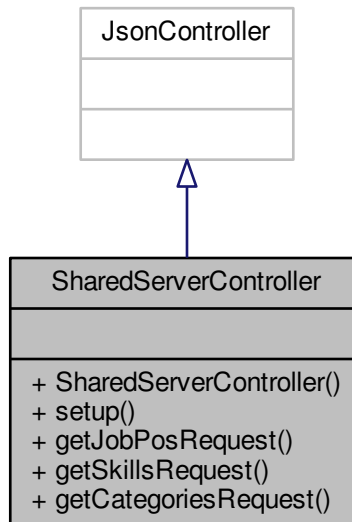
Additional Inherited Members

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

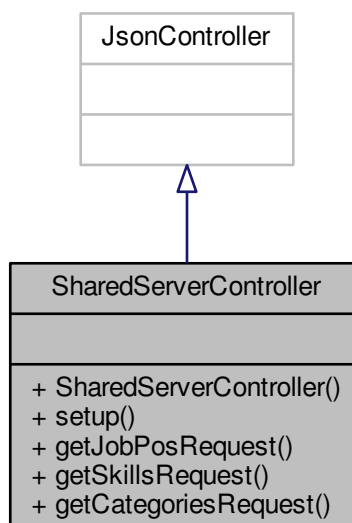
- src/databases/SessionsDB.h
- src/databases/SessionsDB.cpp

4.17 SharedServerController Class Reference

Inheritance diagram for SharedServerController:



Collaboration diagram for SharedServerController:



Public Member Functions

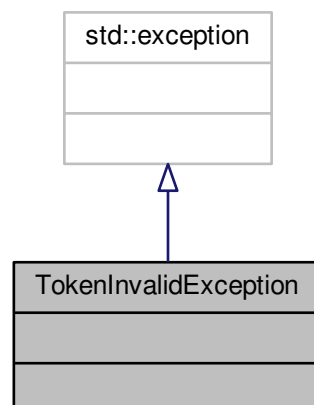
- **SharedServerController** ([ClientSharedServer](#) *clientSharedServer, [SessionManager](#) *sessionManager)
- void **setup** ()
- void **getJobPosRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getSkillsRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)
- void **getCategoriesRequest** (Mongoose::Request &request, Mongoose::JsonResponse &response)

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

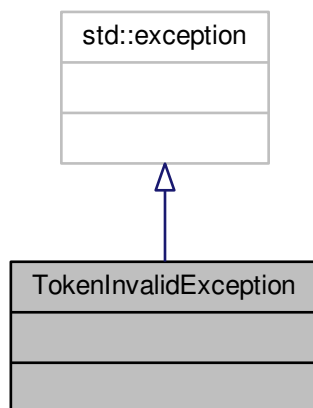
- src/SharedServerController.h
- src/SharedServerController.cpp

4.18 TokenInvalidException Class Reference

Inheritance diagram for TokenInvalidException:



Collaboration diagram for TokenInvalidException:

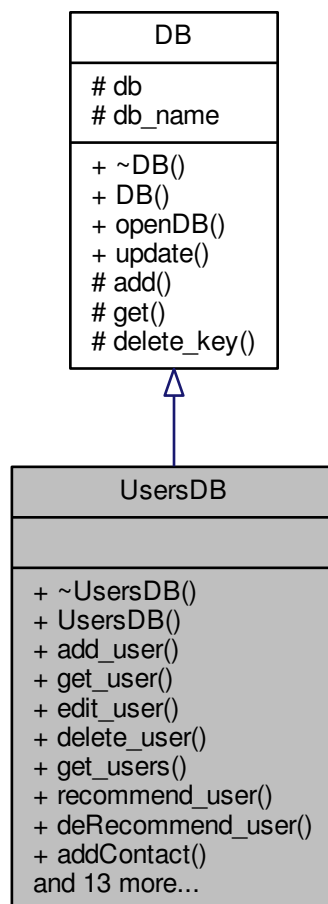


The documentation for this class was generated from the following file:

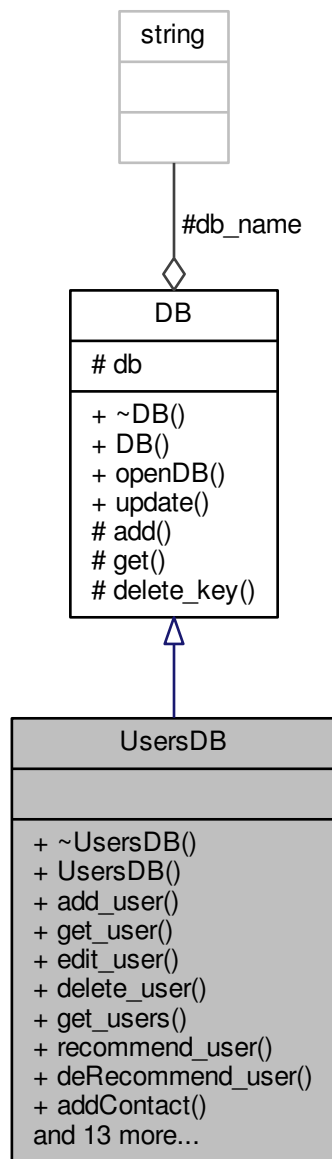
- `src/exceptions/TokenInvalidException.h`

4.19 UsersDB Class Reference

Inheritance diagram for UsersDB:



Collaboration diagram for UsersDB:



Public Member Functions

- **UsersDB** (const string &db_name)
- bool **add_user** (const string &username, Json::Value user)
- Json::Value **get_user** (const string &username)
- bool **edit_user** (const string &username, Json::Value userEdited)
- bool **delete_user** (const string &username)
- bool **get_users** (Json::Value &result)
- bool **recommend_user** (const string &usernameFrom, const string &usernameTo)
- bool **deRecommend_user** (const string &usernameFrom, const string &usernameTo)

- bool **addContact** (const string &usernameFrom, const string &usernameTo)
- bool **removeContact** (const string &usernameFrom, const string &usernameTo)
- bool **parse_json_array** (std::string body, Json::Value &result)
- void **filter_job** (Json::Value &result, string job)
- void **filter_skill** (Json::Value &result, string skill)
- void **sort_by** (Json::Value &result, string sorting)
- void **top_k** (Json::Value &result, int n)
- void **sort_by_distance** (Json::Value &users, std::string caller_coordinates)
- bool **get_users_by** (string sorting, int nFilter, string job, string skill, Json::Value &result, int nDistance, string caller_coordinates)
- void **filter_pos** (Json::Value &result, int nDistance, string caller_coordinates)
- bool **isInRange** (string pos1, string pos2, int nDistance)
- void **getCoordinates** (string coordinates, double *latitud, double *longitud)
- double **calcularDistancia** (string coord_user, string callerCoordinates)
- bool **get_user_contacts** (string &username, Json::Value &contacts)

Additional Inherited Members

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

- src/databases/UsersDB.h
- src/databases/UsersDB.cpp