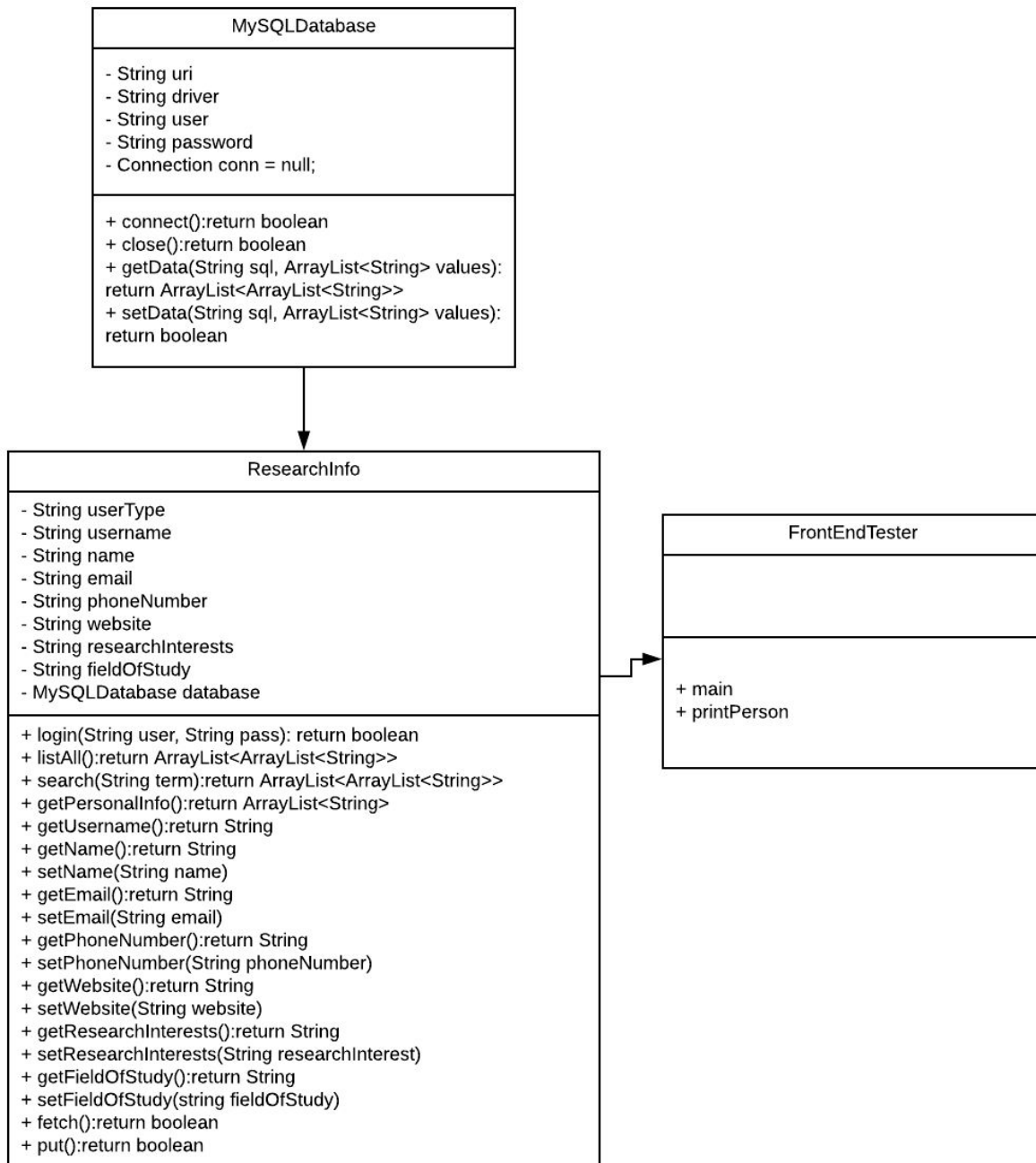


Team Database4Lyfe

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Class UML Diagram



API Definitions:

ResearchInfo

login(String user, String pass): Takes the username and hashed password for the user to login to the database. Returns boolean.

listAll(): Lists everyone in the database depending on the user. Lists professors for students and public users. Lists students, for professors. Returns as a ArrayList<ArrayList<String>>

search(String term): Lets the user search the database for professors or students depending on who is logged in. Returns ArrayList<ArrayList<String>> of matches.

getPhoneNumber():Return the user's phone number as a String.

setPhoneNumber(String phoneNumber):Set the phone number of the user, return boolean represents the result.

getPersonalInfo(): Returns the user's personal info as an ArrayList<String>.

getUsername(): Returns the users username. Returns String

getName(): Returns the users name, if the user is a professor or student. Returns string.

getEmail(): Returns the users email. Returns String

setName(String name): Sets the users name if they are a professor or student.

setEmail(String email): Sets the users email. Returns boolean.

getWebsite(): Returns a professor's website if available. Returns string.

setWebsite(String website): Sets the users website if they are a student or professor. Returns boolean.

getResearchInterests(): Returns the professors or students research interests. Returns string.

setResearchInterests(string fieldOfStudy): Sets the research interest for students or professors. Returns boolean.

getFieldOfStudy(): Returns the field of study for the professors or students. Returns string.

setFieldOfStudy(string fieldOfStudy): Sets the users field of study. Return boolean.

fetch(): Updates internal variables. Returns boolean.

put(): Updates the information in the database itself. Returns boolean.

Test Class Sudo Code

Loop(until logged in)

Login

Welcome (Student/Prof/Public user) [name]

Loop (until closed)

What would you like to do? (user enters number)

1. View all

Print out all student/prof

2. Search

Enter search term

Prints out matching results

3. Update personal info

Loop (until save or cancel)

What would you like to update (user enters number of attribute to change, and then the information to set that attribute to)

(list attributes, numbered)

Save (put command)

Cancel (fetch to reset data back to what the database says)

4. Close program