DIT215: Project: Programming

Decision support system – Choosing University Programmes

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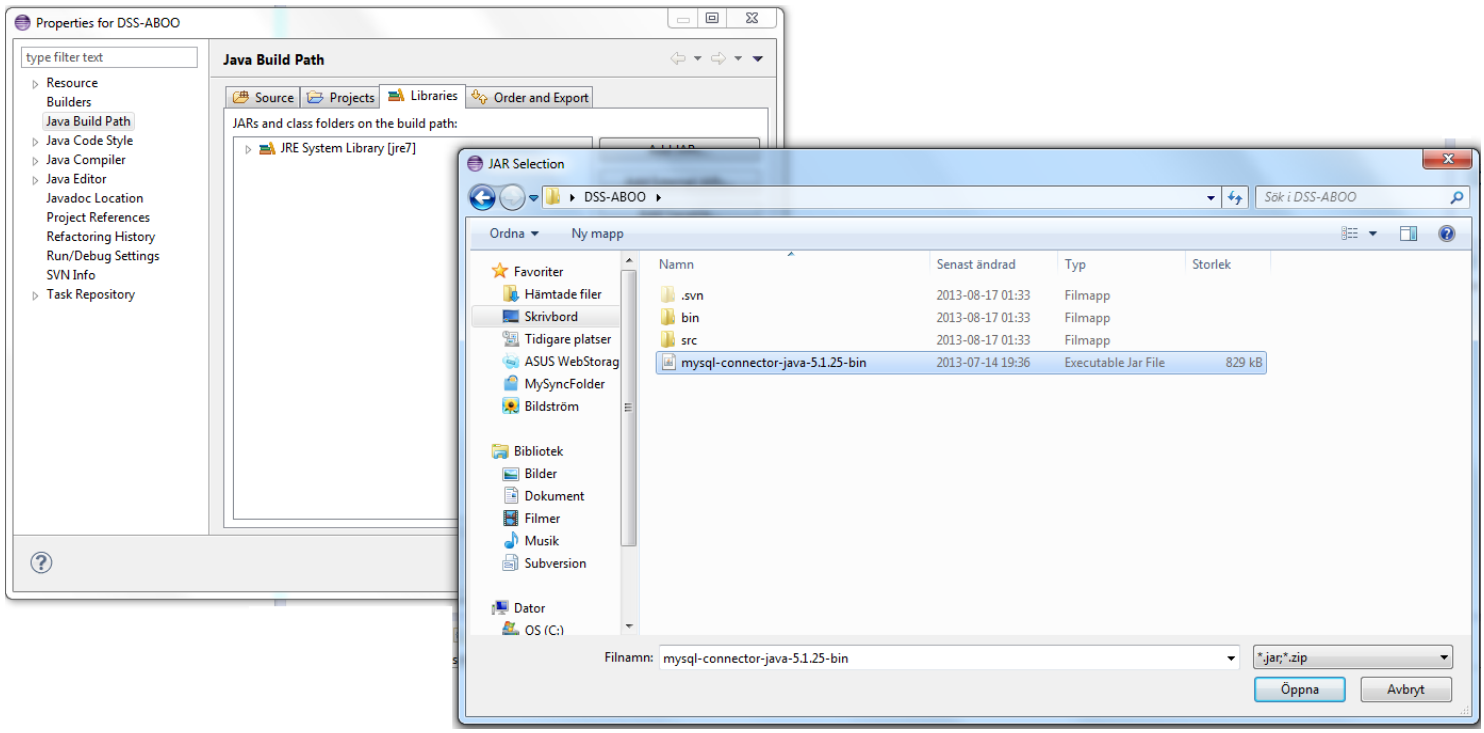
Introduction

This program is written in Java, using the latest JDK7u25 package and mysql-connector-java-5.1.25 for the database connection. The program's database is hosting by Chalmers University using real data obtained from https://www.antagning.se/ which provides users actual facts about the programmes themselves. And it is crucial that internet connection is provided to the computer running this program, otherwise it will not start.

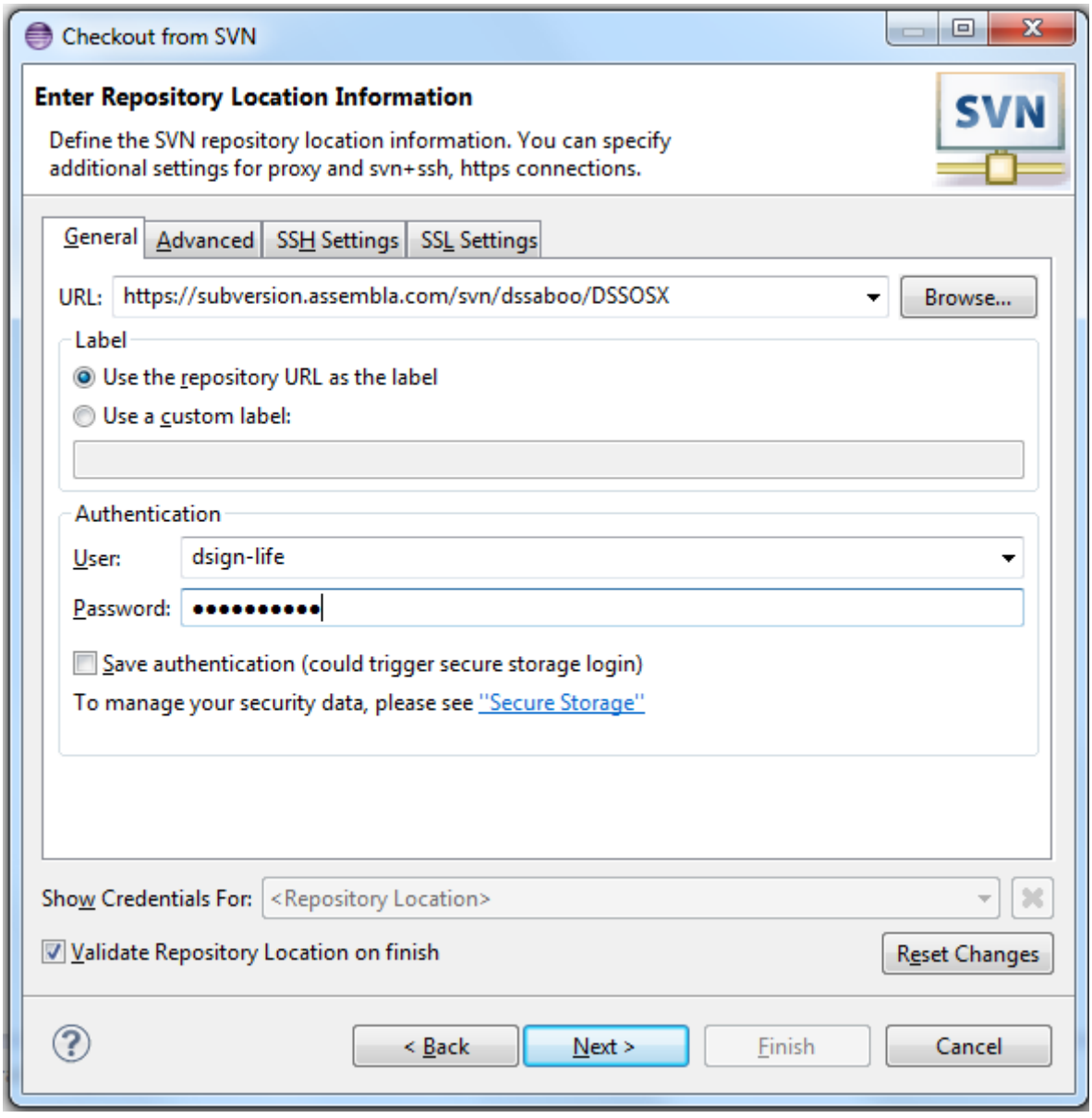
JDBC library is also needed to be manually added in order for the program to function properly (the .jar file is included in this folder). The submit application is otherwise a fake function, it does not actually send the information to the selected University. So basically, submitting the applications will not do anything but adding to the program's statistics.



SVN Connection

We have chosen to use SVN plugin due to its nature of easy accessibility to group members. It is only matter of committing and updating and everybody with acesss will have the latest source code in no time. In this very case, https://www.assembla.com is our SVN host.

Login information
URL: https://subversion.assembla.com/svn/dssaboo/DSSOSX
USER: dsign-life, PASSWORD: Justlook123

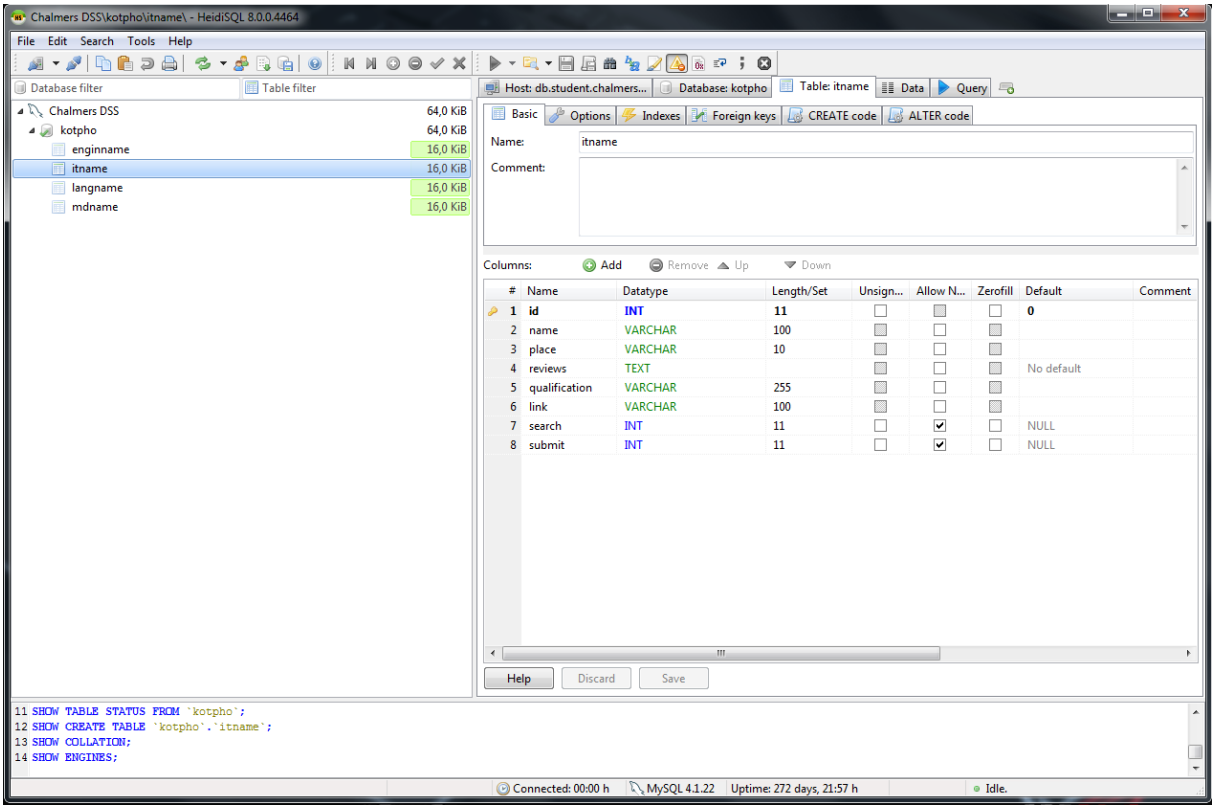


Database

For an easy access, we have decided to make the program's database online. This way the program will work even without having MySQL services in the local computer. Online database may have its down side because its requirement of the Internet. Although this down side can be overlooked as such condition of lack of internet connection is hardly to come by these days.

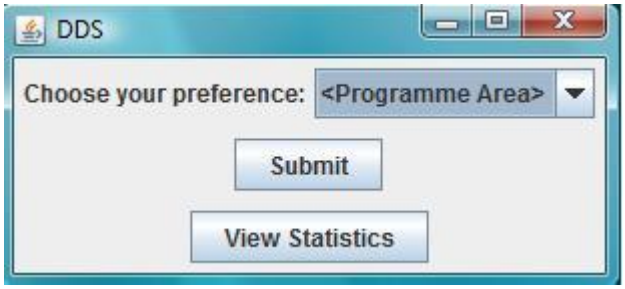
There are 4 tables on the database containing programme information of each area, which can be accessed through Chalmers's network by putting the information below into your local MySQL client

IP: db.student.chalmers.se
USER: kotpho, PASSWORD: 3kh948T6

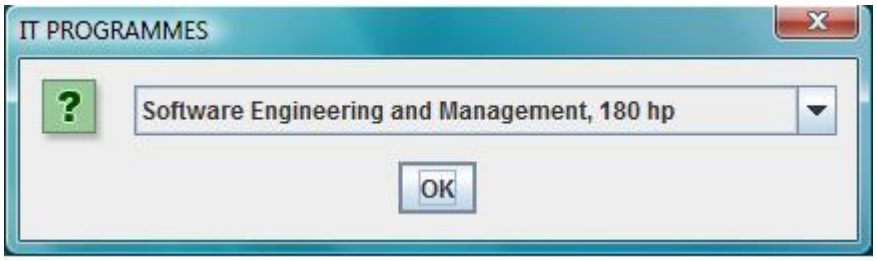


How the prototype works

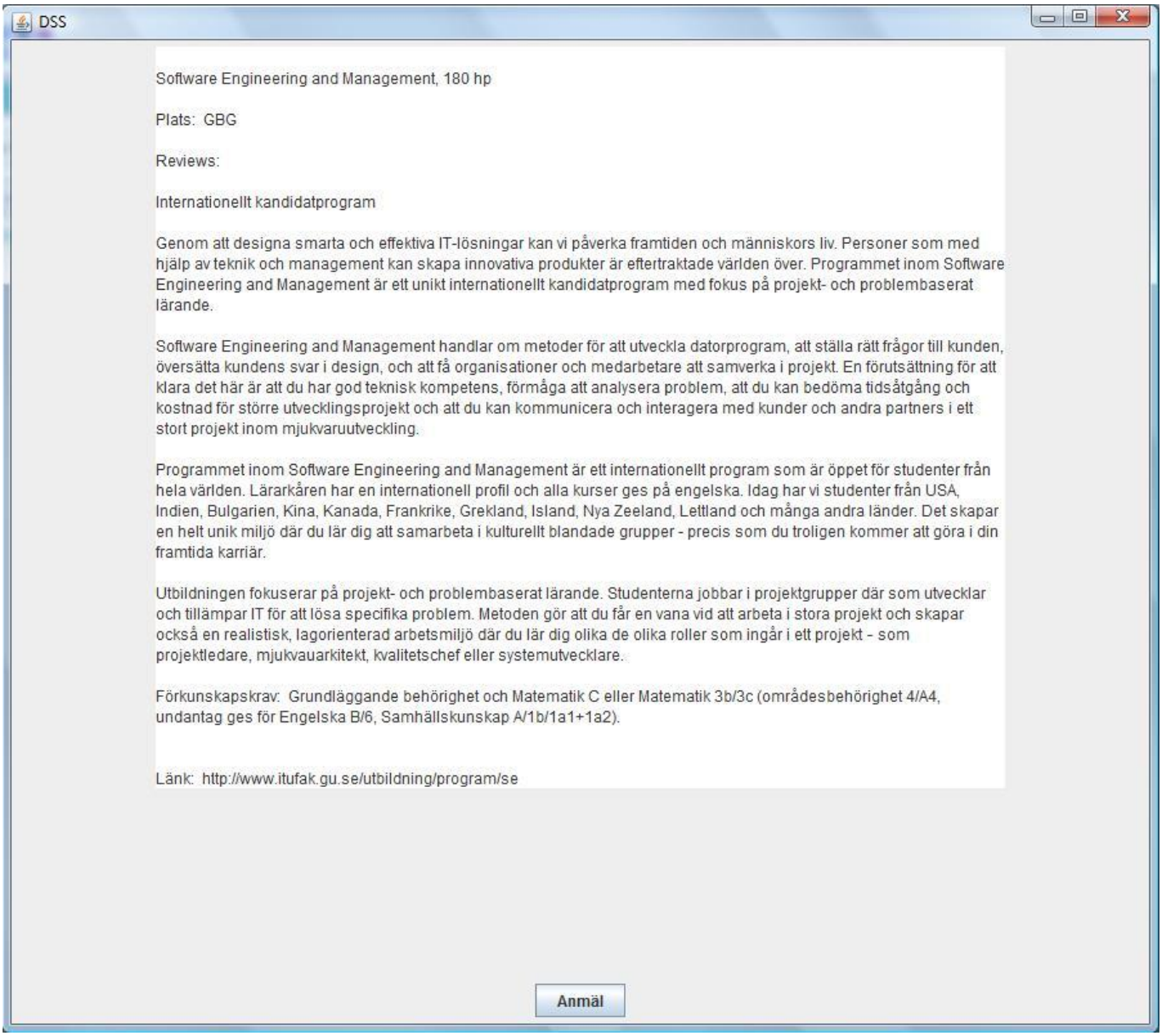
First of all, the user has to run the mainclass located in the “app” package. This will start the program and the user can then start to search different programmes areas within the program as displayed in the picture:



Choose your preferred area and press the submit button, a new window will be opened where the user can now choose an program dependent on what preference the user chose in the previous window. In this example the user chose “IT” and can now see all the programmes that are within that area in the dropdown box:

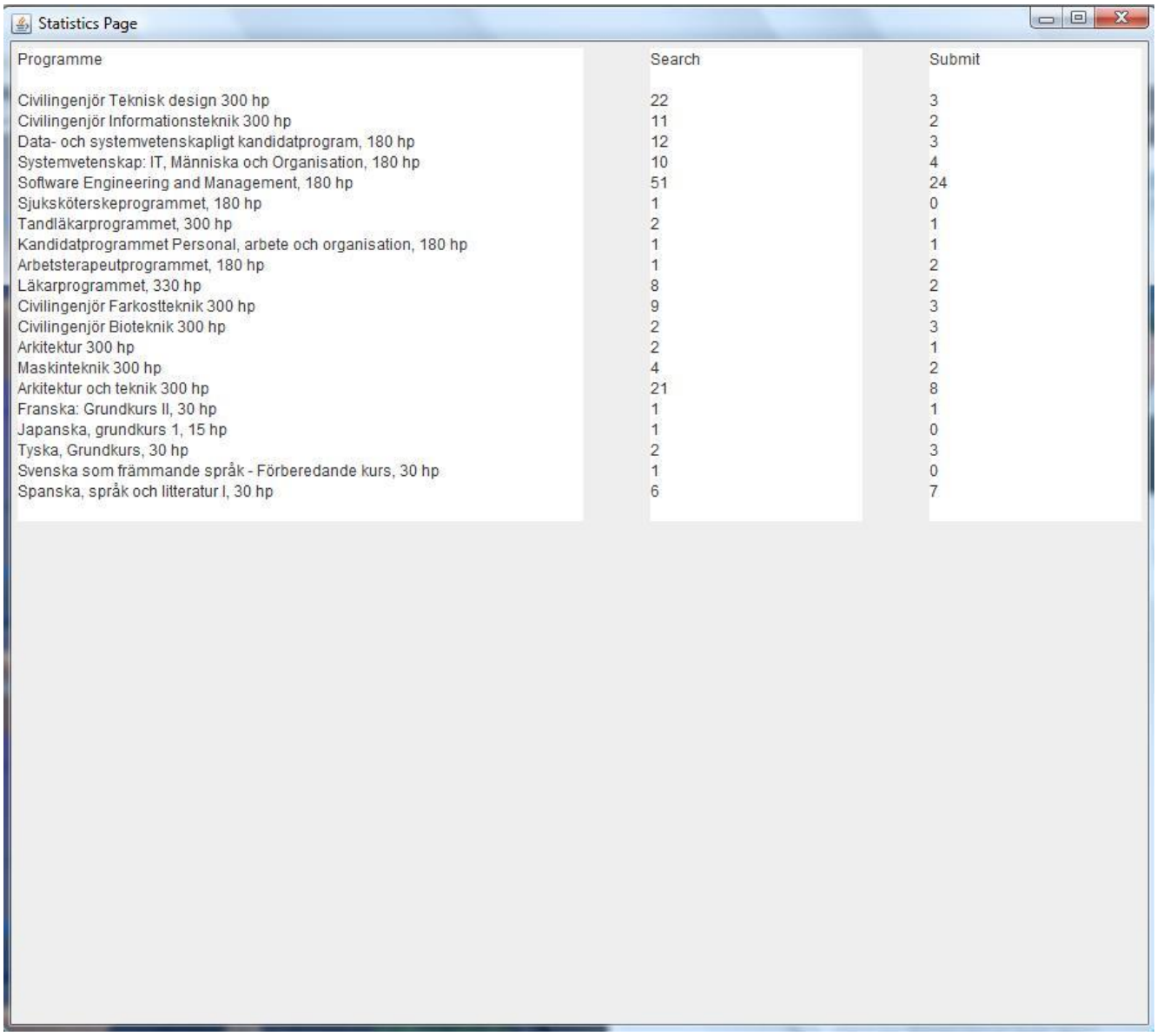


After this step the user can press the “OK” button and will come to the programmes information window where information about the program is gathered from the database and viewed on the screen as presented below:



Here, the user can press the “anmäl” button to register for the selected programme. Doing so the user will be notified that he/she have registered for the university!

There is also a statistic page where the user can see how many programmes there is, how many that have searched for them and how many that have registered for them as well:



List of software in the making of this program

- Eclipse
- HeidiSQL
- SVN plugin hosted by https://www.assembla.com/
- MySQL Workbench
- MySQL Servers

Video Presentation

http://youtu.be/JGp2KWOW1DM

References

- https://www.antagning.se/