

**DIT215: Project: Programming**

**Decision support system – Choosing University Programmes**

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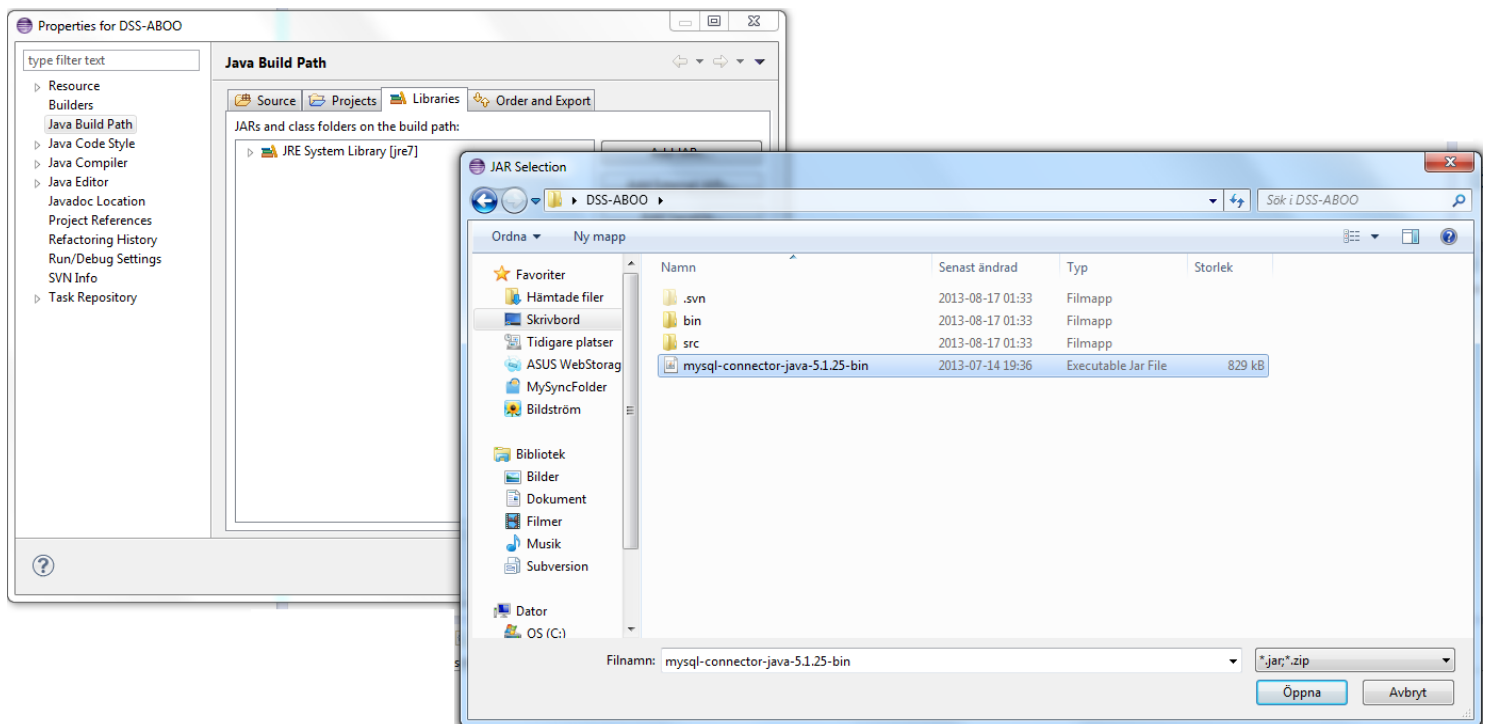
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# Introduction

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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

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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

**Checkout from SVN**

**Enter Repository Location Information**

Define the SVN repository location information. You can specify additional settings for proxy and svn+ssh, https connections.

**General** | Advanced | SSH Settings | SSL Settings

URL: <https://subversion.assembla.com/svn/dssaboo/DSSOSX> Browse...

**Label**

☒ Use the repository URL as the label

☐ Use a custom label:

**Authentication**

User: [dsign-life](#)

Password: ••••••••

☐ Save authentication (could trigger secure storage login)

To manage your security data, please see ["Secure Storage"](#)

Show Credentials For: [<Repository Location>](#) ✕

☒ Validate Repository Location on finish Reset Changes

? < Back Next > Finish Cancel

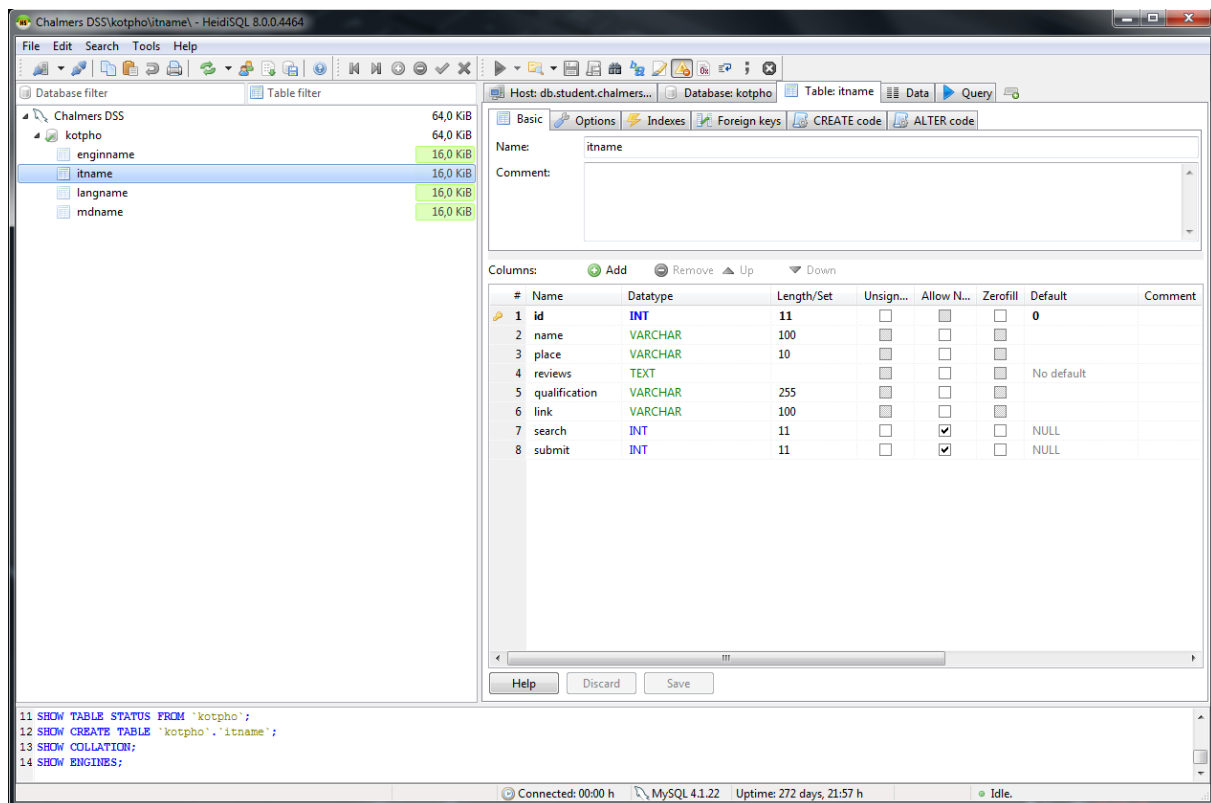
# Database

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

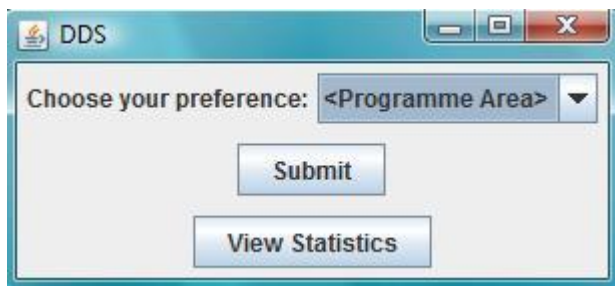
USER: kotpho, PASSWORD: 3kh948T6



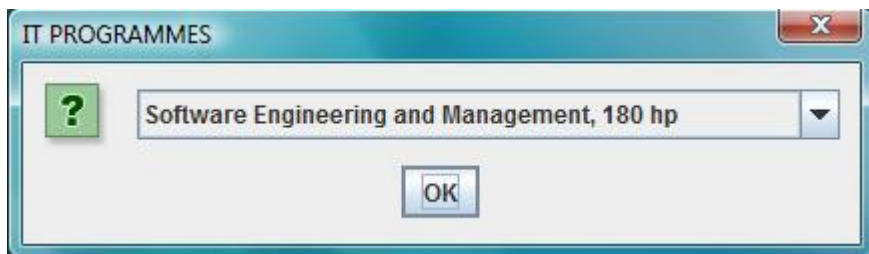
# How the prototype works

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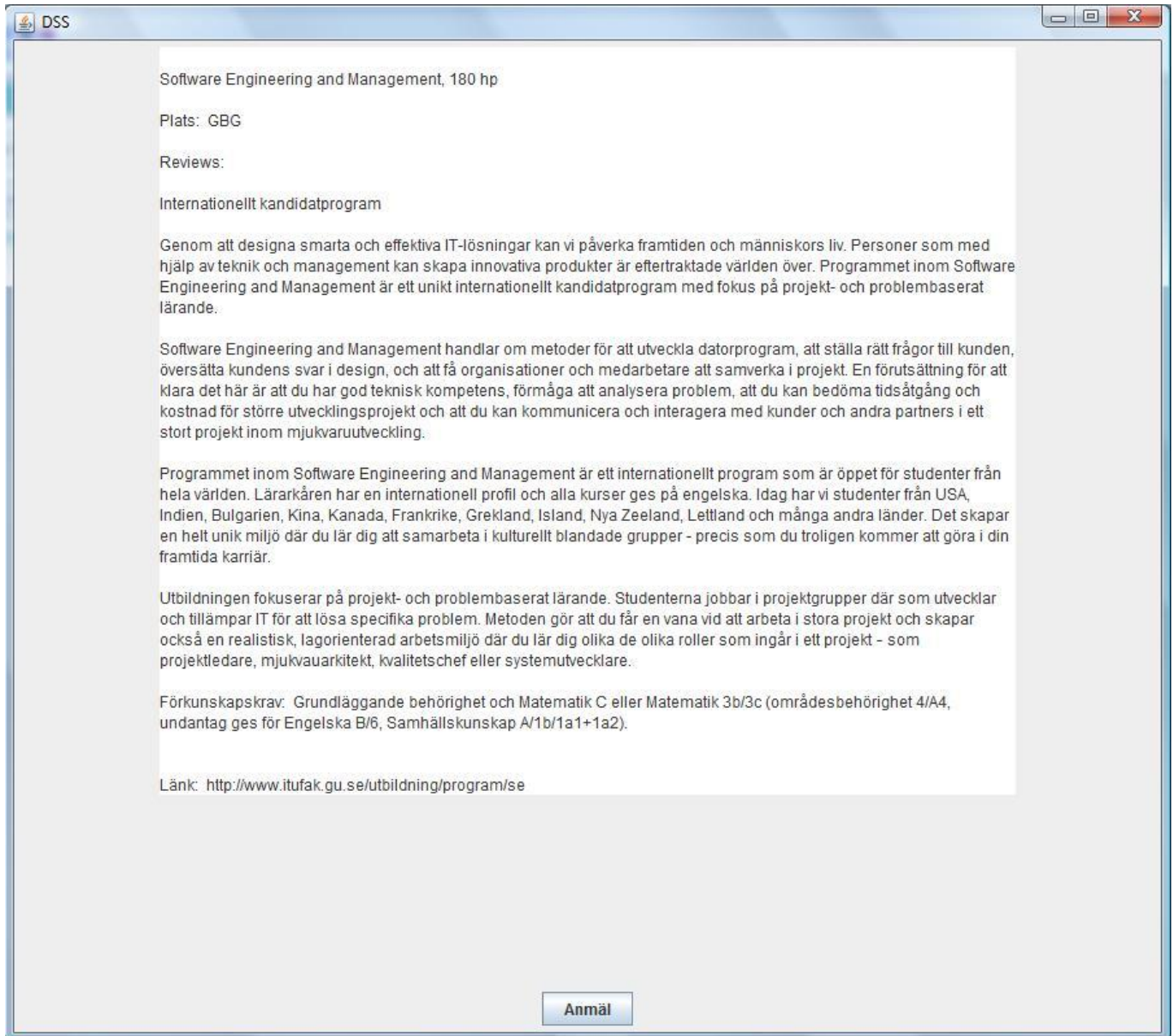
First of all, the user has to run the mainclass located in the “app” package. This will start the program and the user can then start to search different programmes areas within the program as displayed in the picture:



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:

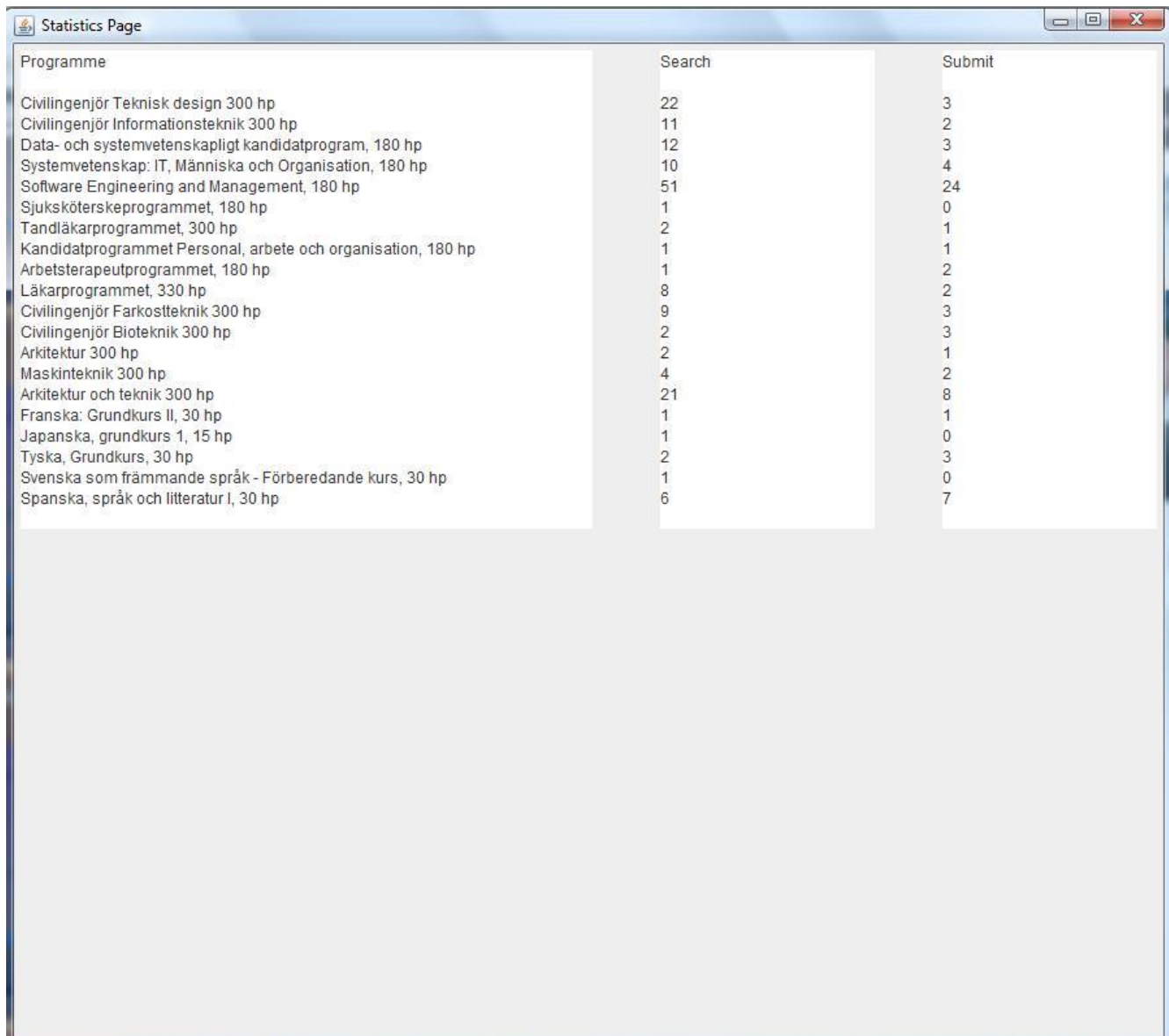


After this step the user can press the “OK” button and will come to the programmes information window where information about the program is gathered from the database and viewed on the screen as presented below:



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:



Programme	Search	Submit
Civilingenjör Teknisk design 300 hp	22	3
Civilingenjör Informationsteknik 300 hp	11	2
Data- och systemvetenskapligt kandidatprogram, 180 hp	12	3
Systemvetenskap: IT, Människa och Organisation, 180 hp	10	4
Software Engineering and Management, 180 hp	51	24
Sjuksköterskeprogrammet, 180 hp	1	0
Tandläkarprogrammet, 300 hp	2	1
Kandidatprogrammet Personal, arbete och organisation, 180 hp	1	1
Arbetsterapeutprogrammet, 180 hp	1	2
Läkarprogrammet, 330 hp	8	2
Civilingenjör Farkostteknik 300 hp	9	3
Civilingenjör Bioteknik 300 hp	2	3
Arkitektur 300 hp	2	1
Maskinteknik 300 hp	4	2
Arkitektur och teknik 300 hp	21	8
Franska: Grundkurs II, 30 hp	1	1
Japanska, grundkurs 1, 15 hp	1	0
Tyska, Grundkurs, 30 hp	2	3
Svenska som främmande språk - Förberedande kurs, 30 hp	1	0
Spanska, språk och litteratur I, 30 hp	6	7

# List of software in the making of this program

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



# Video Presentation

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<http://youtu.be/JGp2KWOW1DM>



# References

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- <https://www.antagning.se/>