LAB#3 ORM

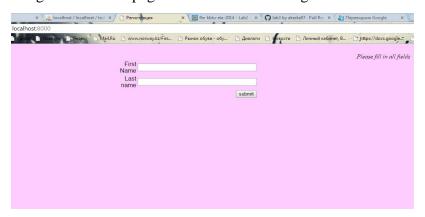
In this lab I have created web application that display list of students. For implementing my application I have used Hibernate ORM framework. It provides the access to database. As database I have used SQL database. Hibernate has simplified my work, so with it I can do not carry organizing database, writing sql-code; one problem only stays – is to connect with SQL Database. Thus it Hibernate help to be more concentrated on OOP.

To connect with database I have created two .xml documents: hibernate.cfg.xml and Student.hbm.xml.

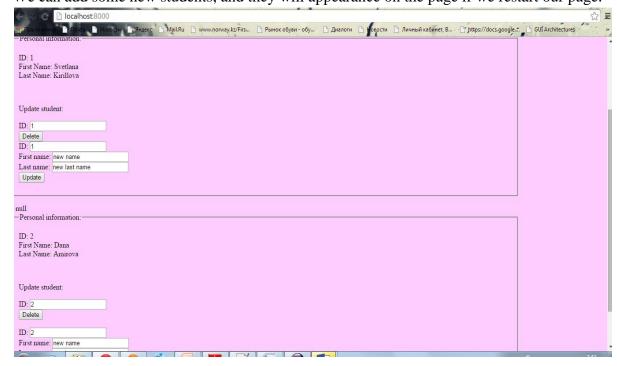
As model for my application I have class Student, so instances of Student will be stored in the database. For presenting my application I have used Transform View (TransformData.java) where function viewStudents() represent useable view of every student from the list(data of them, *delete* and *update* bottons).

In class ListManage.java I have functions that response to contact with database(adding, deleting, updating and getting student by id).

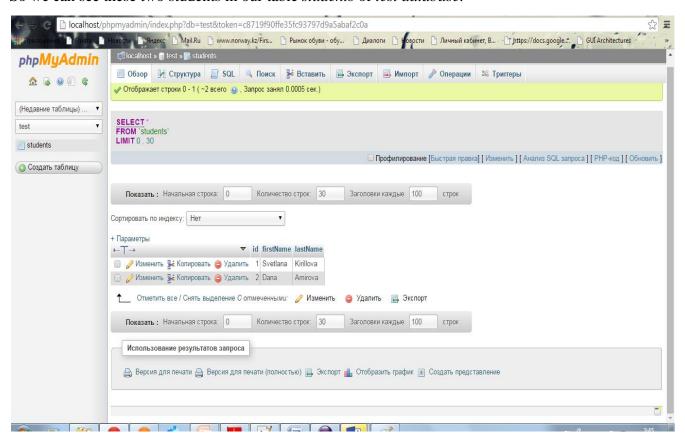
So if go to the main page we see form to adding new students:



We can add some new students, and they will appearance on the page if we restart our page:



So we can see these two students in our table *students* of *test database*:

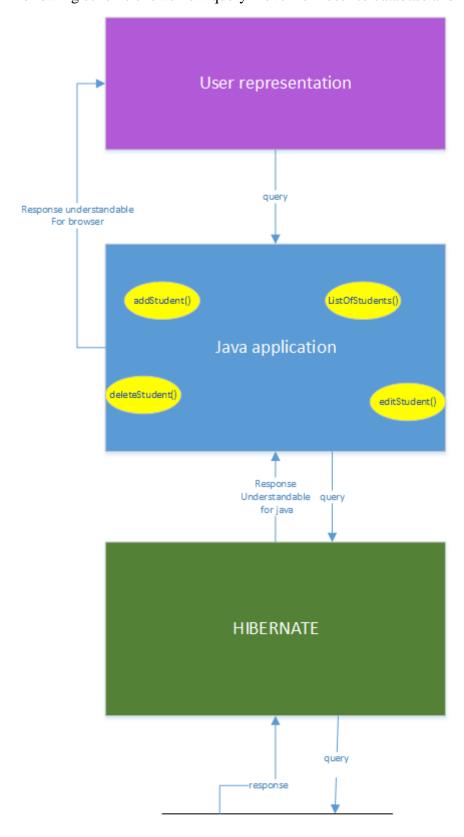


Also we can delete this user by pushing on *delete* button is near with respective student(the info about students(id) is sent with request that is used to find this student in database); and if we add new student again(after deleting) hi will have id=3(not 2) as we used auto increment for it:



Unfortunately I cannot do working my delete button.

Following scheme shows how query move from user to database and return back:



SQL database