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**Lab №2**

In this lab, I’ve implemented the chat as an example. With this chat one can register, log-in and then send message to common for all users chat.

As written in the task, I used some patterns: MVC, template view, two step view, transform view, singleton. Let’s take a look, for structure:

Registration

Log in

Success

Enter page (access for chat page is restricted before you logged in)

Chat page: as one entered as a user he/she can post messages into common chat and it will be displayed with his name.

Registration page (if new user name is busy or password is not correct, it redirects to error page)

Log out

Patterns:

MVC – model view controller pattern:

Model. As a model part we consider database and all logic related with organizing data and access information about users.

View – is an HTML pages, forms, chat that on front-end side.

Controller – main part of code that runs the server, generate html pages, supports and controls the process. When do registration or logging in, controller request to model whether there is such user, or does it login is busy. Also it process chat actions. As all data are ready to display, controller sends html page to display in browser.

Also there was implemented template view (several times), transform view (while user logging in), two-step view (while receiving sent to chat messages).