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Lab#2

Students Blog

During this lab I have created a website that is a blog for students. The user can register, log in and leave a message on the blog.

To implement this site, I used MVS pattern. In the project it is represented by three packages: Models, View, and Controllers.

Controllers contains following classes:

Authorization() – contains functions for checking ability of user to log into the system.

DbAction() – implements adding new users and messages to database with checking.

FunHandler() – contains function than determine actions after changing the path of the uri.

MyHandler() – contain main function that run the server, and it also implement the sending the response to user.

ReadFun() - contains function to read data from the file, and to return it as String.

ReadInputs() - contain function that allow read the user's inputs and return it as vector of Strings.

So, this Controller reads user inputs, adds it into database, and forms the outputs for user using the classes from View and Models packages.
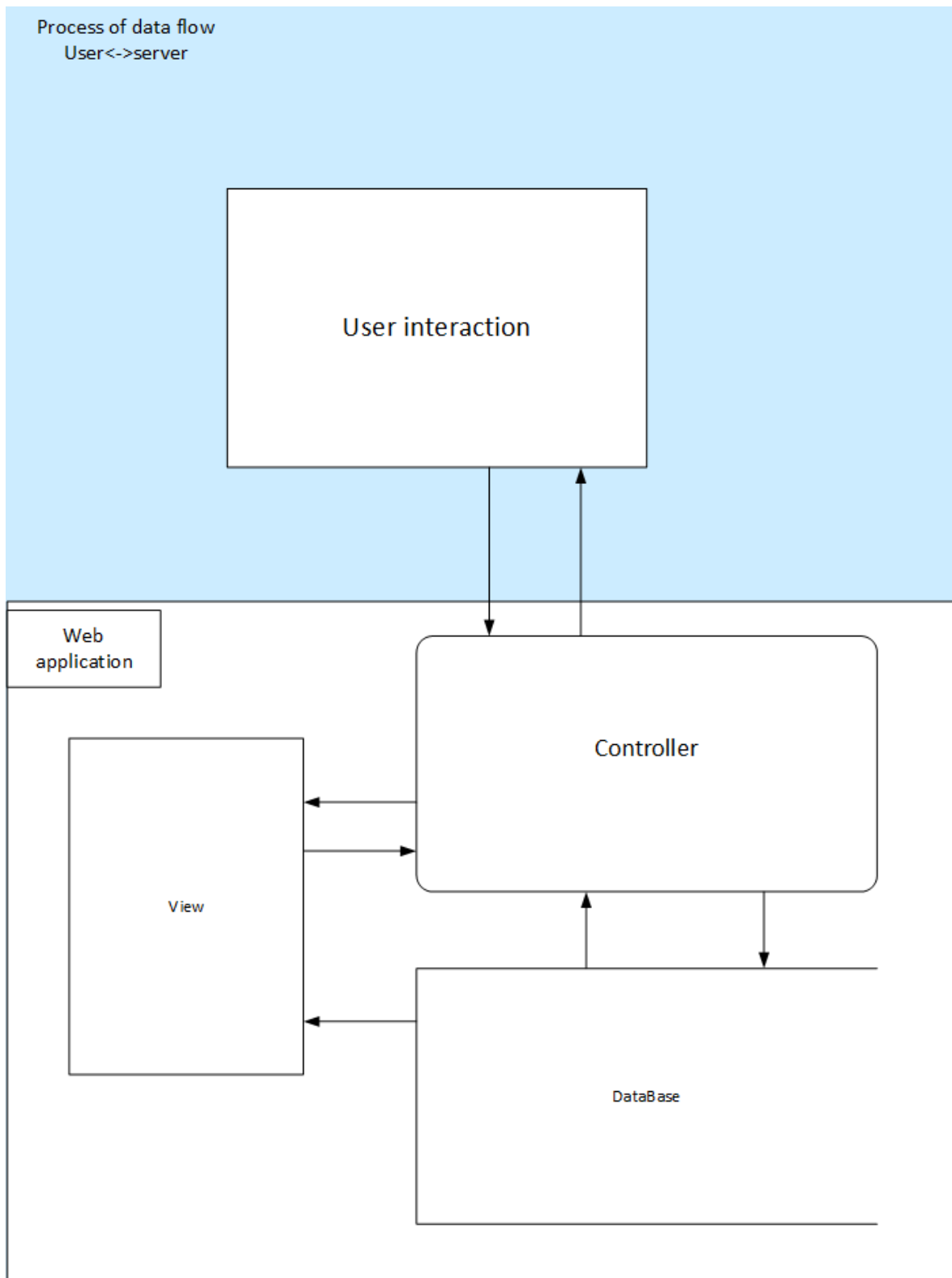
View package is like pattern for good representation of data. It contains only two classes:

TemplateView() – has three functions that plays role of patterns to show the authorized user name, specific pages(by replacing the information from the pages).

ViewForRecord() – has a function to generate certain representation of messages in the blog using HTML code. This class performs the role of *TransformView.*

Models contains models of users and messages, and its databases (which fields, properties and functions it has): Record(), User(), UsersDB, and RecordsDb() classes.

In my site I also have implemented *Two step view*: so, I have file template.html where pattern for all pages is contain. Using controller and view it combines with other pages and new pages are represented.

Process of data flow
User<->server

User interaction

Web
application

Controller

View

DataBase

Process of adding
message

User

New message

All info about message

Data of user

Message for user blog

Views

Generating Readable form

Message in unreadable form

Data of user

Controller

Finding user in DB According this message

Adding message to Database

Data of user

Users Database

Messages Database