



# Tasks to Solve During Seminar 3

## Internet Applications, ID1354

**Write a document with your answers to the following tasks, and upload it to Canvas at the end of the seminar.** The format of the document is not important. You solve the tasks together in the group, but each group member must write and upload their own document.

### Mandatory Task

All members of the group shall, in turn, explain and motivate their program to the other group members. Write a brief summary of differences, and comment on advantages and disadvantages of the different solutions. Do not write about minor layout differences.

Evaluate that your web sites meet the requirements specified in the lab tasks, and that all PHP code is well-structured and easy to understand. Also evaluate that your reports meet the requirements in the report template and in the lab tasks.

### Optional Tasks

Solve as many of these tasks as time allows, and write your solutions in the same document as the mandatory task. If the solution is a piece of code, just paste the code in the document, without bothering about figures or formatting. The tasks may be solved in any order, you do not have to start from task one.

#### Task 1, Frameworks

- a) It is almost always the case that a http request is received by one php file, which then includes another file containing the next view (otherwise the code will be terribly messy). This means that the URL does not match the path to the file with the view. If we are using a framework with routing functionality, the URL does not even match the path of the file handling the http request. *Make sure you understand why!*

Now, suppose a browser has made an HTTP request to **`http://www.myserver.se/abc/def`**. The server framework maps this URL to the file **`classes/ghi.php`**, which includes **`views/jkl.html`**. The view that is now displayed in the browser is the HTML code in **`views/jkl.html`**.



- 1) Which URL is now displayed in the browser's address field?
  - 2) The layout of **views/jkl.html** is specified in **resources/css/mno.css**. **jkl.html** contains a link to **mno.css**, which path shall that link have?
- b) Is there any feature you miss in the id1354-fw framework? Maybe handling request or application lifetime variables the same way session variables are handled? Or the possibility to include data in a view without writing php code? Or possibility to include fragments like header and footer without writing php? Try to find out how some missing feature could be implemented. You do not have time to implement it in code, just try to understand how it could be done. Ask the teacher for hints if you wish.
- c) Try to understand how some existing functionality in the framework is implemented, for example session handling, routing or including views. You can try to figure out a possible implementation on your own or read the framework's source code. Ask the teacher for hints if you wish.

## Task 2, Security

Try to perform an attack on one of your sites. You can, for example, try to impersonate another user, using one of the strategies below.

*Detailed instructions will be provided later.*