| Óbuda University | | | | Institute of Software Engineering | | |
|--|--------------|----------------|------------------|-----------------------------------|---|--|
| John von Neumann Faculty of Informatics | | | | | | |
| Name and code: Web development using PHP/Symfony (NAIW | | | | SVND) | Credits: 4 | |
| | | | | | | |
| Computer Science BSc | | | D | Daytime 2020/21 year I. semester | | |
| Subject lecturers: Zsolt Sza | bó-Resch | | | | | |
| Prerequisites: | | | | | | |
| (with code) | | | | | | |
| Weekly hours: | Lecture: 2 | Seminar: 0 | Lab. hours: 2 | Consulta | ation: 0 | |
| Way of assessment: | Examination | n | | • | | |
| | | Co | urse descripti | on | | |
| Coal: The students will obt | nin compoton | ev in the besi | cs of the PHP la | nguaga an | d thoy will obtain practice in creating PHP | |

Goal: The students will obtain competency in the basics of the PHP language, and they will obtain practice in creating PHP scripts. In addition, they will gain proficiency in industry-level PHP development using the Symfony framework.

Course description: Introduction to the PHP programming language, basic control structures and functions, file and session management, database management, Symfony/Doctrine basics, dependency injection, unit tests

| Lecture schedule | | | | | |
|----------------------|---|--|--|--|--|
| Education week | Topic | | | | |
| 1 | Practices: Frontend vs Backend, HTML + CSS Homework: XAMPP and Composer and PhpStorm installation | | | | |
| 2 | Practices: Backend vs Framework, PHP/Symfony intro Homework: Symfony installation | | | | |
| 3 | Practices: Symfony controller code: primes and fibonacci Homework: — | | | | |
| 4 | Practices: PHP Arrays and strings: calculator Homework: Song voting | | | | |
| 5 | Practices: Files; Directories; GD Homework: File-based "database" exercise (2 weeks) | | | | |
| 6 | Practices: None. Continue the homework Homework: — (Continue the previous) | | | | |
| 7 | Practices: Twig, Guestbook Homework: Recipe book (2 weeks) | | | | |
| 8 | Practices: Forms, Session, Manual login Homework: — (Continue the previous) | | | | |
| 9 | Practices: Forum + Form models Homework: Deltopic, register, pwmod | | | | |
| 10 | Practices: Doctrine with votes Homework: Add question/choice, del question/choice (2 weeks) | | | | |
| 11 | Practices: Service Layer + Cars Homework: — (Continue the previous) | | | | |
| 12 | Practices: — Homework: Project topic specification + skeleton on GIT + Add oe_nik_prog user | | | | |
| 13 | Practices: Authentication with Firewall Homework: Include authentication in project work | | | | |
| 14 | Practices: API, Menu, Tests Homework: Include the menu+bootstrap in project work | | | | |
| Midtorm requirements | | | | | |

Midterm requirements

Signature: The completion of all homeworks is required for the signature.

The completion and the defense of the project work is required for the exam grade.

| Midterm Test Scheduling | | | | |
|-----------------------------------|---------------------------------|--|--|--|
| Education | Topic | | | |
| week | Topio | | | |
| 4 | Homework: Song votes | | | |
| 5 | Homework: File database | | | |
| 7 | Homework: Recipe book | | | |
| 9 | Homework: Forum extension | | | |
| 10 | Homework: Voting extension | | | |
| 12 | Homework: Project specification | | | |
| 13 | Homework: Project with auth | | | |
| 14 | Homework: Project with menu | | | |
| Midterm grade calculation methods | | | | |

Midterm grade calculation methods

Method of replacement

If the homeworks are not completed, they have to be completed by the signature retake deadline.

Type of exam

The project work defense is done in the exam date.

Exam grade calculation methods

The grade is created by evaluating the difficulty, the complexity and the quality of the project work; with the punctuality of the homeworks affecting the grade.

References

Obligatory:

Powerpoint presentations that can be downloaded from the webpage or from the Moodle system

SensioLabs: Symfony - The Book (http://symfony.com/doc/current/book/index.html)

http://w3schools.com/HTML/default.asp; http://w3schools.com/PHP/default.asp; http://uk.php.net/

Recommended:

C. Musciano, B. Kennyedy: HTML and XHTML, The Definitive Guide [O'Reilly, 2000, pdf, ISBN 9780596527327]

D. Sklar, A. Trachtenberg: PHP Cookbook [O'Reilly, 2002, pdf, ISBN 9781565926813]

J. Castagnetto, H. Rawat, S. Schumann, C. Scollo, D. Veliath: Professional PHP Programming [Wrox Press Ltd, 1999, pdf, ISBN 1-861002-96-3]

http://symfony.com/doc/current/index.html

Others:

M. Maslakowski: Teach Yourself MySQL in 21 Days [Sams, 2000, pdf, ISBN: 9780672319143]

https://dev.mysql.com/doc/

http://w3schools.com/JS/default.asp; http://w3schools.com/CSS/default.asp