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	none er	nd 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			
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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	Tonia				
week	Topic				
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				
	Midtorm 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