





Poznan University of Technology Faculty of Computing and Telecommunications

michal.apolinarski[at]put.poznan.pl

Course: Application Security – laboratories

Lecturer: Michał Apolinarski, Ph.D.

Topic: Open-source web application basic analysis

Duration (on site): 180 min.

PREREQUISITES:

Knowledge of computer networks, operating systems, cryptography. Knowledge of programming languages and basic knowledge of database design.

GOALS:

- The aim of the class is to familiarize students with the basic functionality of selected (open source) web applications.
- Preparing a report of the performed tasks.

INSTRUCION (tasks for 1 person):

1. Visit site: **https://www.softaculous.com/demos** where you can browse popular open-source web applications.

		Client Area Support Downloads Contact News Blog Forums Company -					
	Softaculous			PRODUCTS -	unch WordPress Buy		
Search Q	Sófaculous Auto Installer						
SitePad Website Builder Blogs >		Please click on the Scripts below t	o Preview the Scripts's Demo or you can	choose any Script from the category	on the Left for the Script's Overview:		
Portals/CMS	Top 12 Scripts						
Forums		2.0	-	-		-	
Image Galleries		X					
) wikis >	WordPress	Joomla	AbanteCart	shoBB	SMF	WHMES	
Social Networking	****	****	****	phpBB ****#	****	****	
4 Ad Management	\sim		674	Ro			
Calendars	1881				A CONTRACTOR		
Gaming	Open Real Esta	MyBB	pH7Builder	Laravel	Dolphin	OpenCart	
∃ Mails >	****	****	****	****	****	****	
Polls and Analytics		All Scripts					
Project Management							
E-Commerce >	🛔 Blogs	PHP Blogs					
ERP >				_			
Guest Books		P		E		~	
Customer Support			0			\sim	
C Frameworks	WordPress	Pubvana	Dotclear	Serendipity	b2evolution	Textpattern	
Februational							







- 2. Choose at least 5 (the more the better) different web application with working on-line demo mode and try them out.
- 3. For each of the chosen applications demos:
 - a. Check available features on the public site.
 - b. Sign in to the admin panel and familiarize yourself with the features available in dashboard.
- Download at least 3 or more apps from its official site and install it on your localhost (in most cases you will need a web server like XAMPP with Apache, PHP and MySQL) – it's also recommended to install them on virtual machine.
- 5. For each locally installed application:
 - a. Familiarize with its tech stack and analyze its files structure.
 - b. Analyze its structure of the database, in particular how information about users and their passwords are stored.
 - c. Configure basic functionality. Add some example content. Create some example users.
 - d. Analyze process of users sign-in (log-in) and user's session management.
 - e. Analyze password reset (forgotten password) functionality.
 - f. Search the Internet for information about known vulnerabilities of this application.
- 6. Keep installed apps on your machine for future exercises.
- 7. Prepare and send to the lecturer a report of performed tasks and your analysis.

REPORT:

- Should include a title page with full details of the student, course and exercise being reported.
- Should be carefully edited and provide evidence of the completion of all exercises confirmed by screenshots, answers and conclusions.
- Complete report should be send to the lecturer.