

Lecture 7 (w8)

2022/2023

Databases, Web Programming and Interfacing

- Databases, Web Programming and Interfacing
 - An VI IT₄T
 - 1C/1L/1P
- Timetable
 - Friday, every week (fiecare saptamana) 1C + 2L (17-20)
 - Friday, 12/02/2022 moved (UTI) → Saturday 12/10/2022 same hours

Grade

- 10% - Test/Examen – last week – 1h
- 40% - Personal/Team Project

Info

- http://rf-opto.etti.tuiasi.ro/master_it.php



The screenshot shows a web browser window with the address bar displaying "rf-opto.etti.tuiasi.ro/master_it.php". The website header features the "RF-OPTO" logo, a navigation menu with "Main", "Courses", "Master", "Staff", "Research", and "Students", and a secondary menu with "Radiocommunication Systems", "Microwave IC", "Satellite Comm.", "Web Design", and "Ethics". The main content area is titled "Databases, Web Programming and Interfacing" and lists course details for the 2021-2022 academic year.

Databases, Web Programming and Interfacing

Course: DWPI (2021-2022)

Course Coordinator: Assoc.P. Dr. Radu-Florin Damian
Code: ITT.IA.601
Discipline Type: DIS; Required, Specialty
Credits: 5
Enrollment Year: 6, Sem. 11

Activities

Course: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:
Laboratory: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:
Project: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:




Evaluation

Type: Verification


C: 10%, (Tests during semester)
C: 10%, (Tests during semester)
D: 40%, (Homework/Specialty papers)
D: 40%, (Homework/Specialty papers)

Materials

Textbooks

PHP5 and MySQL Bible (pdf, 15.97 MB, en, )
PAW 2021 Curs 1 (pdf, 15.1 MB, ro, )
PAW Curs 1 (video) (mp4, 467.67 MB, ro, )

Project/Design

Server CentOS pentru VMWare Player (cloud) (link, 0 Bytes, en, )
Instalare CentOS (pdf, 2.54 MB, en, )

Access

■ Not customized



A screenshot of a student profile page. On the left is a small, pixelated portrait of a man. To the right of the portrait, under the heading "Date:", is a table with student details. Below this table is a link "Acceseaza ca acest student" which is circled in red. At the bottom of the page is a table titled "Note obtinute" showing a list of courses and grades.

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5184

[Acceseaza ca acest student](#)

Disciplina	Tip	Data	Descriere	Nota	Puncte	Obs.
TW	Tehnologii Web					
	N	17/01/2014	Nota finala	10	-	
	A	17/01/2014	Colocviu Tehnologii Web 2013/2014	10	7.55	
	B	17/01/2014	Laborator Tehnologii Web 2013/2014	9	-	
	D	17/01/2014	Tema Tehnologii Web 2013/2014	9	-	



A screenshot of a login form. It contains three input fields: "Nume" (Name) with the value "IACOBSCUIN" (partially obscured by a red line), "Email", and "Cod de verificare" (Verification code). The "Email" and "Cod de verificare" fields are circled in red. Below the "Cod de verificare" field is a verification code "344bd9f" displayed on a blue background with a grid pattern. At the bottom is a "Trimite" (Send) button.

Nume
IACOBSCUIN

Email

Cod de verificare

344bd9f

Trimite

Online

- access to **online exams** requires the **password** received by email

English | Romana |

Main Courses Master Staff Research **Student**

Grades Student List Exams Photos

POPESCU GOPO ION

Fotografia nu exista

Date:

Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telecomunicatii
Marca	7000000

[Access the site as this student](#) | [request access to software](#)

Grades

Inca nu a fost notat.

Main Courses Master Staff Research

Grades **Student List** Exams Photos

Login

Use the last name and email stored in the database

Name
POPESCU GOPO

Email/Password

Write the code below

828f26b

Send

Online

- access email/password

Main Courses Master Staff Research

Grades Student List Exams Photos

POPESCU GOPO ION

**Fotografia
nu exista**

Date:

Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telec
Marca	7000000

You access the site as **this student!**

Main Courses Master Staff Research

Grades Student List Exams Photos

POPESCU GOPO ION

**Fotografia
nu exista**

Date:

Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telec
Marca	7000000

You access the site as this student **(including exams)!**

Password

■ received by email

Important message from RF-OPTO

Inbox x



Radu-Florin Damian

to me, POPESCU



Romanian

> English

[Translate message](#)



Laboratorul de Microunde si Optoelectronica
Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
Universitatea Tehnica "Gh. Asachi" Iasi

In atentie: POPESCU GOPO ION

Parola pentru a accesa examenele pe server-ul **rf-opto** este

Parola: [REDACTED]

Identificati-va pe [server](#), cu parola, cat mai rapid, pentru confirmare.

Memorati acest mesaj intr-un loc sigur, pentru utilizare ulterioara

Attention: POPESCU GOPO ION

The password to access the exams on the **rf-opto** server is

Password: [REDACTED]

Login to the [server](#), with this password, as soon as possible, for confirmation.

Save this message in a safe place for later use

Reply

Reply all

Forward

	Subject	Correspondents
★	Important message from RF-OPTO	POPESCU GOPO ION
★	Validation of MD/CR exam from 02/05/2020	[REDACTED]
★	[REDACTED]	[REDACTED]

From: Me <rdamian@etti.tuiasi.ro> ★

Subject: Important message from RF-OPTO

To: [REDACTED]

Cc: Me <rdamian@etti.tuiasi.ro> ★



Laboratorul de Microunde si Optoelectronica
Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
Universitatea Tehnica "Gh. Asachi" Iasi

In atentie: POPESCU GOPO ION

Parola pentru a accesa examenele pe server-ul **rf-opto** este

Parola: [REDACTED]

Identificati-va pe [server](#), cu parola, cat mai rapid, pentru confirmare.

Memorati acest mesaj intr-un loc sigur, pentru utilizare ulterioara

Attention: POPESCU GOPO ION

The password to access the exams on the **rf-opto** server is

Password: [REDACTED]

Login to the [server](#), with this password, as soon as possible, for confirmation.


Save this message in a safe place for later use


Manual examen online

- The online exam app used for:
 - lectures (attendance)
 - laboratory
 - project
 - examinations

Materials

Other data

[Manual examen on-line](#) (pdf, 2.65 MB, ro, )

[Simulare Examen](#) (video) (mp4, 65.12 MB, ro, )

Microwave Devices and Circuits (Englis

Examen online

- always against a **timetable**
 - long period (lecture attendance/laboratory results)
 - short period (tests: 15min, exam: 2h)

The screenshot shows a web interface for an online exam. At the top, a horizontal bar contains a timetable with the following items: **Announcement** (23:59 (10/05/2020)), **Support material** (00:05 (11/05/2020)), **Exam Topics** (00:07 (11/05/2020)), **Results** (00:10 (11/05/2020)), **End** (00:20 (15/05/2020)), and **Confirmation** (00:20 (16/05/2020)). To the right of this bar, it says "Next timeframe in: 05 m 43 s" with a "Refresh now" link. Below the timetable, the section "Announcement" contains the text: "This is a 'fake' exam, introduced to familiarize you with the server interface and to perform the necessary actions during an exam: thesis scan, selfie, use email for co...". The "Server Time" section states: "All exams are based on the server's time zone (it may be different from local time). For reference time on the server is now: 10/05/2020 23:59:16". Red circles are drawn around the "Announcement" item in the timetable, the "Next timeframe in: 05 m 43 s Refresh now" text, and the "10/05/2020 23:59:16" server time.

Announcement	Support material	Exam Topics	Results	End	Confirmation
23:59 (10/05/2020)	00:05 (11/05/2020)	00:07 (11/05/2020)	00:10 (11/05/2020)	00:20 (15/05/2020)	00:20 (16/05/2020)

Next timeframe in: 05 m 43 s
[Refresh now](#)

Announcement

This is a "fake" exam, introduced to familiarize you with the server interface and to perform the necessary actions during an exam: thesis scan, selfie, use email for co...

Server Time

All exams are based on the server's time zone (it may be different from local time). For reference time on the server is now:

10/05/2020 23:59:16

Email addresses

- Team representative
 - list of **active** email addresses for all students
 - can be @student.etti.tuiasi.ro (also @gmail @yahoo etc.)
 - **rdamian@etti.tuiasi.ro**

2022/2023

Project

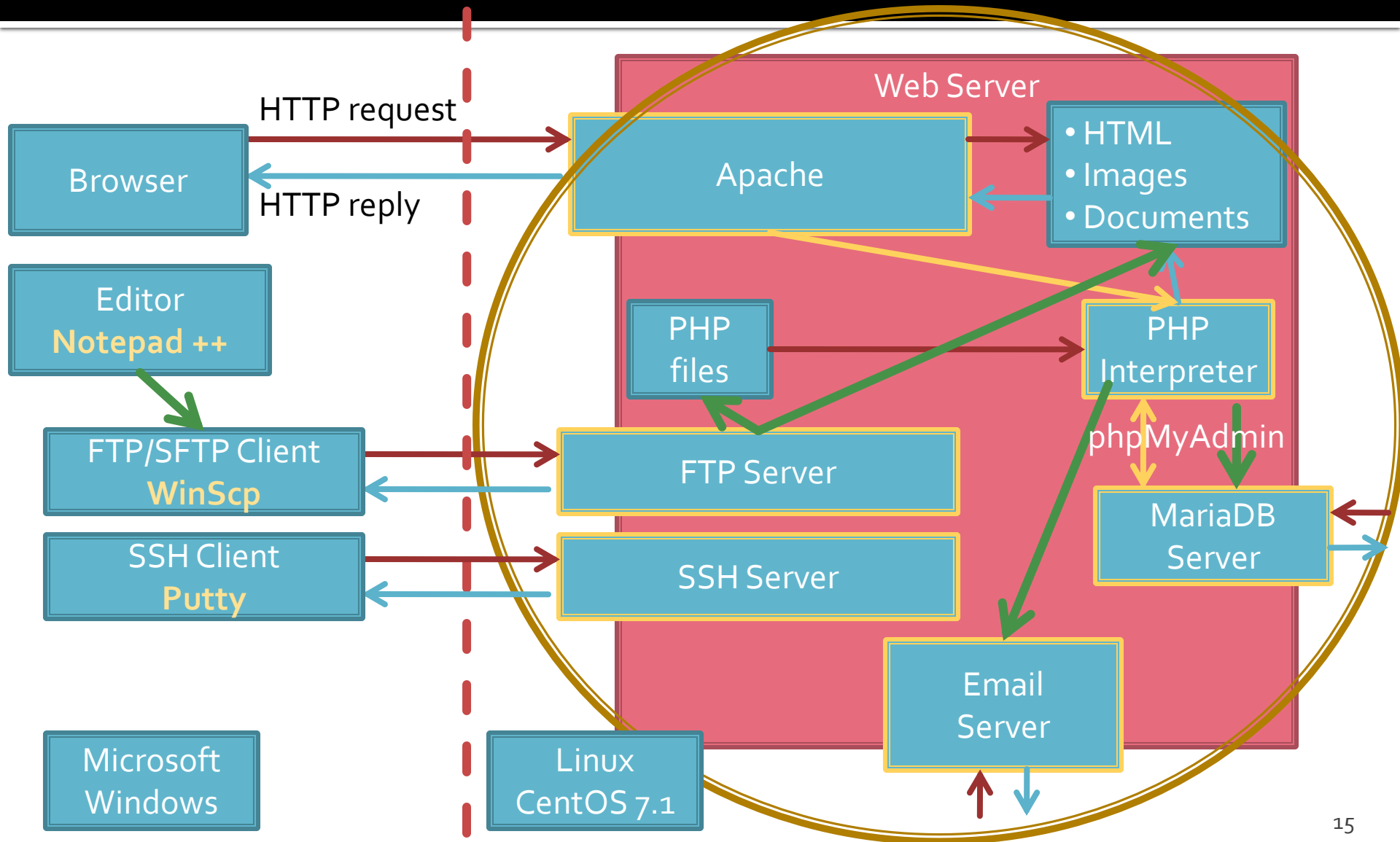
Project

- Submission: **On-site**
- Presentation (in front of the colleagues) + files submission
- 3 files
 - **1 *.pdf** (print-screen while using the application, short usage instructions, a mini-user manual for the application)
 - **1 *.sql** (backup of the database required to run the application)
 - archive of the application (inside: files *.php, *.jpg, folder tree etc., archived: ***.zip, *.7z** etc.)

Project grading

- **(2p)** the application runs on the **reference server** (can be downloaded from [rf-opto](#): Ubuntu, php 7 or CentOS 7, php 5): extract files from the ***.zip** archive in a folder on the server, restore database from the ***.sql** backup file
- **(2p)** the ***.pdf** file containing the user manual exists and is appropriate for the submitted application
- **(2p)** the application **flowchart** has been submitted and contains appropriate data
- **(4p)** presentation on-site of the **application**

Using LAMP



Using LAMP

- differences from a Windows computer
 - system commands difficult
 - command prompt, SSH, Putty
 - files submitted by FTP
 - Copy/Paste unavailable
 - administration of MySql server:
 - using PhpMyAdmin (preloaded)
 - using other software on the host computer (MySQL Workbench)

Using LAMP – Advantages


■ Advantages

- Available applications have newer versions (**2020 ~**)
 - CentOS/7.1, Apache/2.4.6, PHP/5.4.16, MariaDB/5.5.44, PhpMyAdmin/4.4.15
 - Ubuntu/20.04, Apache/ 2.4.41, PHP/ 7.4.3, MariaDB/ 10.3.31, PhpMyAdmin/4.9.5
- Available applications very similar with real life hosting solutions
 - SSH
 - FTP
 - Email
 - for full functionality the network interface for the VM must be changed
Host-only -> Bridged


Reference Server

- rf-opto.etti.tuiasi.ro > Master > Web Design


Project/Design

[VMware Workstation Player](#) (link, 0 Bytes, en, )

[Ubuntu VM for VMWare](#) (link, 0 Bytes, en, )


[Ubuntu Setup](#) (pdf, 1.83 MB, en, )

[Centos VM for VMWare](#) (link, 0 Bytes, en, )

[Centos Setup](#) (pdf, 2.54 MB, en, )

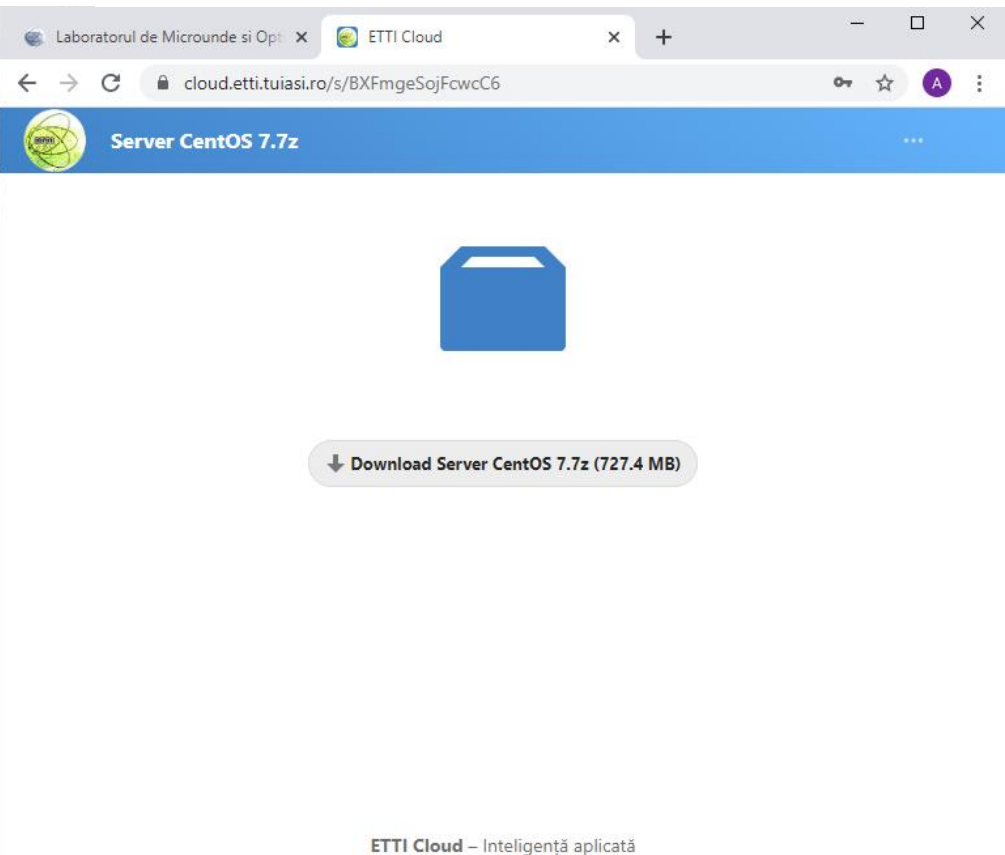
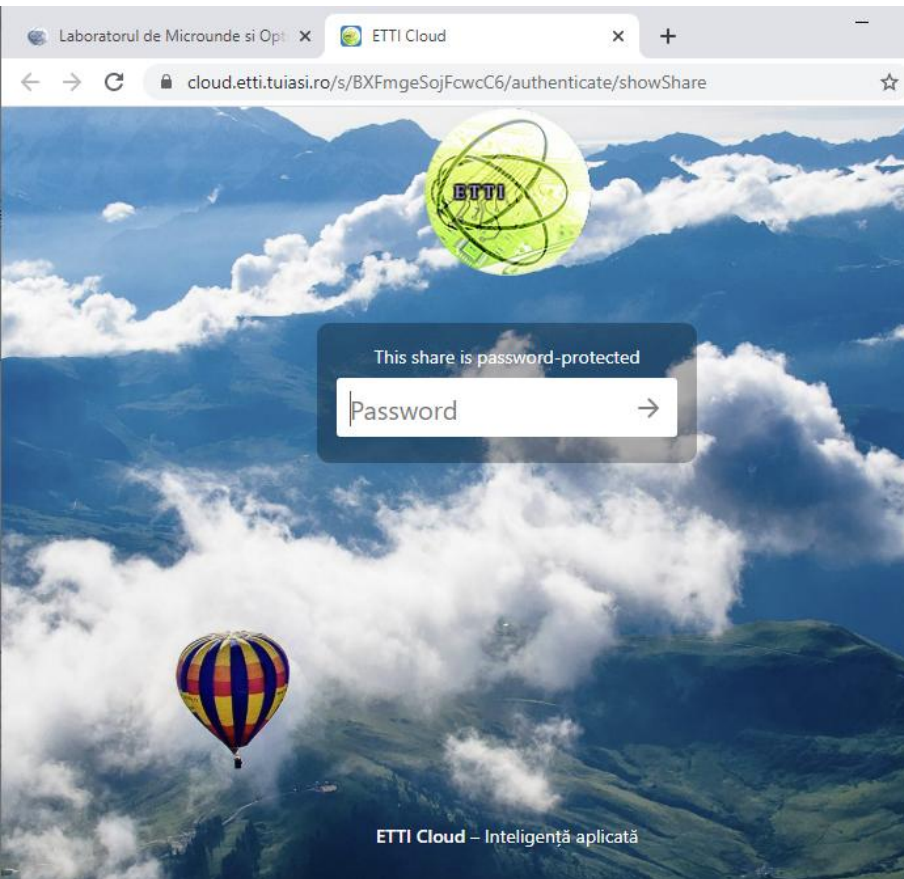
Examen

[Online Exam manual](#) (pdf, 2.56 MB, en, )

[Manual examen on-line](#) (pdf, 2.65 MB, ro, )

Reference Server

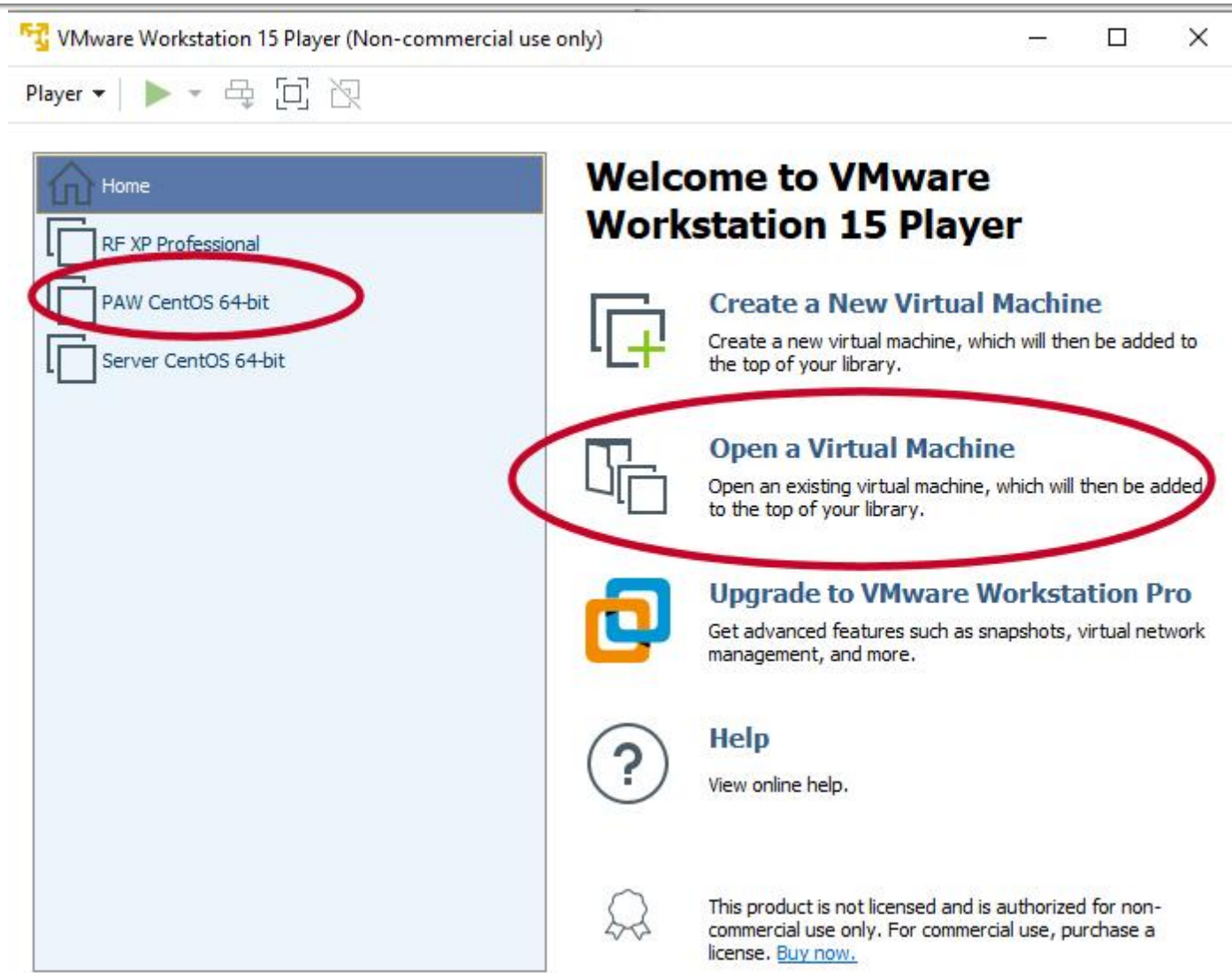
■ Cloud ETTI: RF-opto3#



Reference Server

- Virtual Machine
- VMware Workstation Player Windows/Linux
 - Free (non-commercial use)
 - <https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html>

Reference Server



Possible problems

- Current VMWare Player runs **only** on **64bit** operating systems Windows/Linux
 - for 32bit operating systems previous (**certified originals**) can be made available on rf-opto
- The host computer **must** enable **Hardware Virtualization**
 - Hardware Virtualization is enabled in BIOS, depending on the PC manufacturer: Processor, Chipset, Northbridge
 - Options name: VT-x, AMD-V, Vanderpool, Hyper-V, SVM, Intel Virtualization Technology. if available: Intel VT-d, AMD IOMMU
- VM archive requires **7zip** native to the target operating system

Support applications

- WinSCP (FTP client, free)
 - <https://winscp.net/eng/download.php>
- Notepad ++ (text editor, advanced, free)
 - <https://notepad-plus-plus.org/downloads/>
- Putty (remote access)
 - <https://www.putty.org/>
- MySQL Workbench (gratuit, cont Oracle)
 - <https://www.mysql.com/products/workbench/>

IP address

- login, ifconfig
- Ctrl + Alt + mouse

PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)

Player ▾ || ▾ ⏏ ⏏ ⏏

```
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64

tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
```

PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)

Player ▾ || ▾ ⏏ ⏏ ⏏

```
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64

tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.108 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::250:56ff:fe3e:1693 prefixlen 64 scopeid 0x20<link>
    ether 08:00:56:3e:16:93 txqueuelen 1000 (Ethernet)
    RX packets 104 bytes 12814 (12.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 99 bytes 11847 (11.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

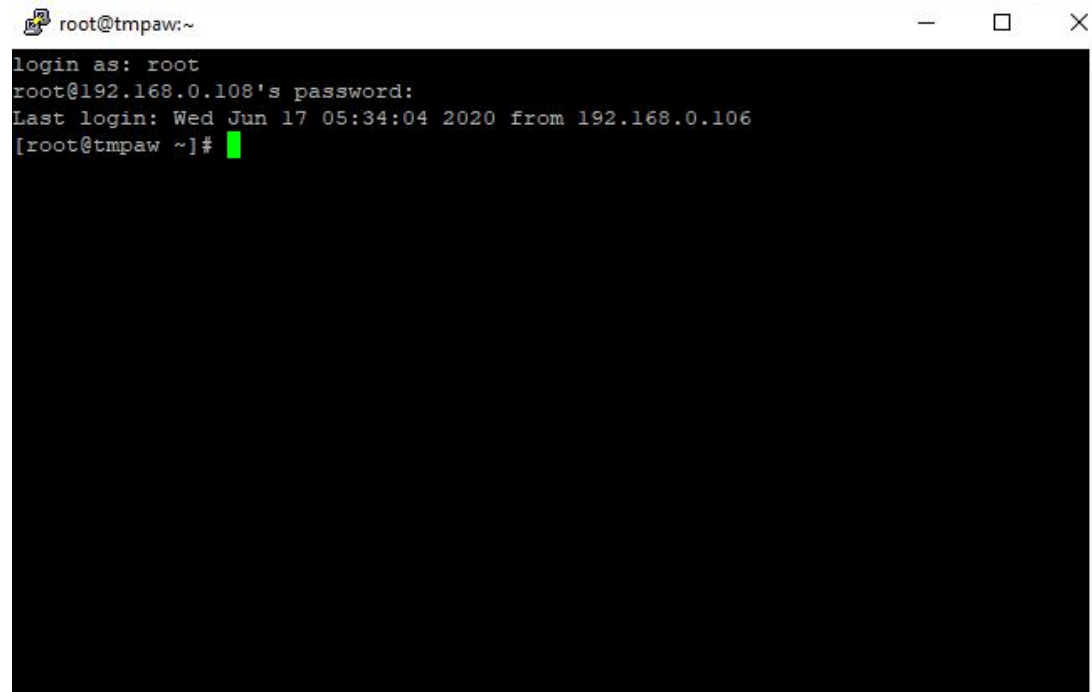
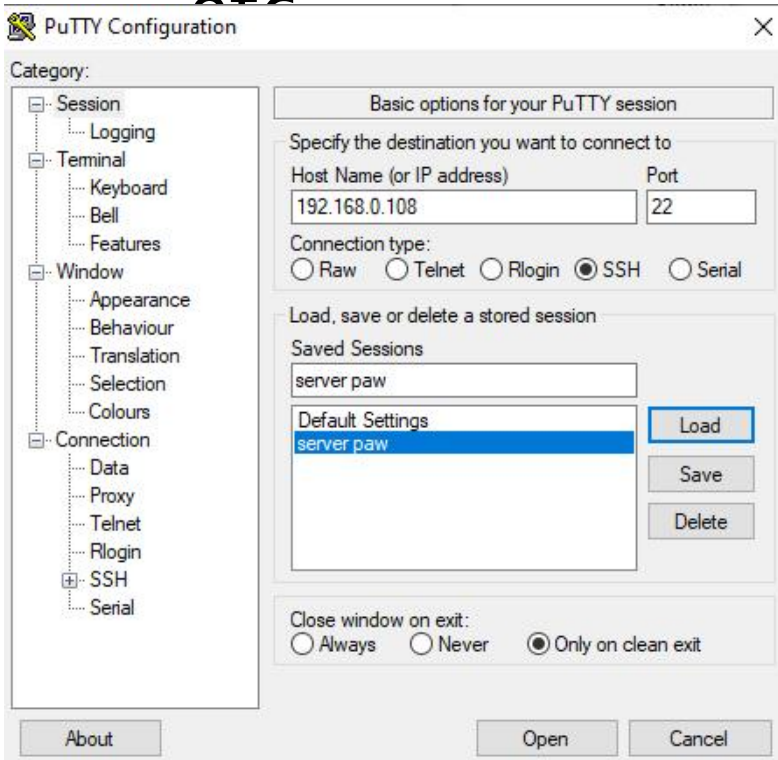
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 0 (Local Loopback)
    RX packets 16 bytes 1774 (1.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 16 bytes 1774 (1.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@tmpaw ~]# _
```


Putty

- putty.exe
- avoids mouse capture (CentOS), copy/paste

etc



WinSCP

- FTP client
- upload files

Session

File protocol:
SFTP

Host name: 192.168.0.108 Port number: 22

User name: student Password:

Edit Advanced...

Login Close Help

html - student@192.168.0.108 - WinSCP

File Commands Mark Session View Help

Address /var/www/html

Find Files Download Edit Properties New Synchronize

Transfer Settings Default

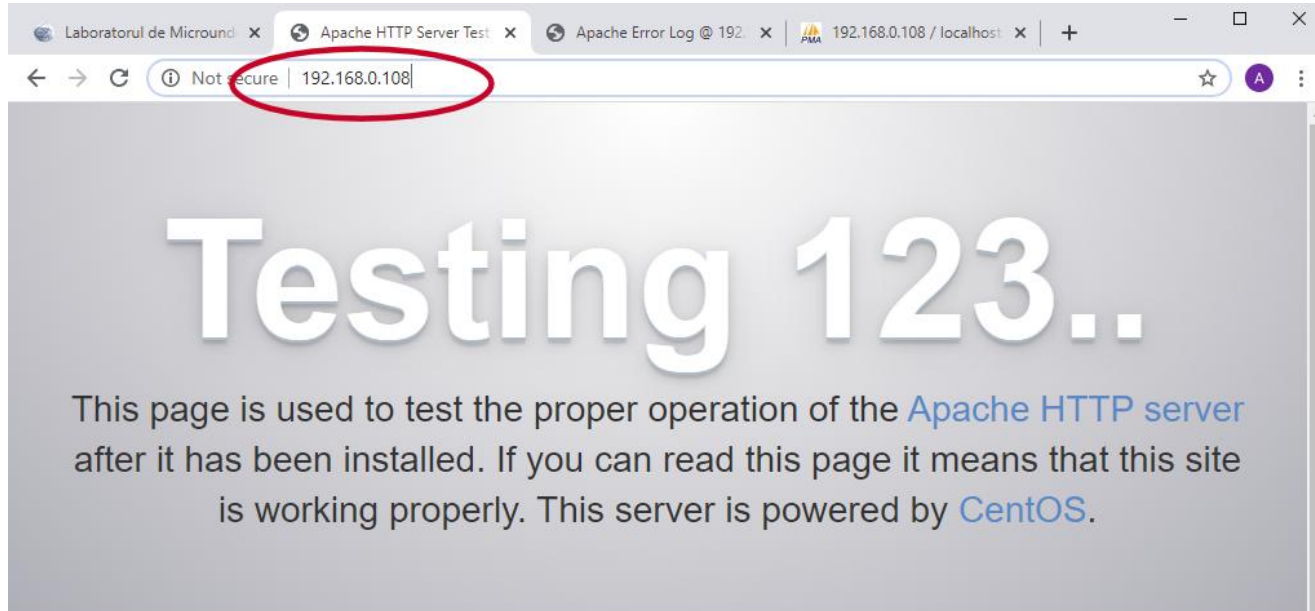
student@192.168.0.108 x New Session

Name	Size	Changed	Rights
ap.log	1 KB	2/29/2016 11:28:50 AM	rw-rw-r
info.php	1 KB	9/30/2009 3:23:00 PM	rw-rw-r
logfile.php	4 KB	12/6/2015 12:05:08 PM	rw-rw-r
test.php	2 KB	2/29/2016 12:04:12 PM	rw-rw-r

0 B of 5.09 KB in 0 of 4

SFTP-3 1, 21:06:30

Browser



Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting `www.example.com`, you should send e-mail to `"webmaster@example.com"`.

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Promoting Apache and CentOS

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!



Server MySQL/MariaDB

The screenshot displays the phpMyAdmin web interface. The browser's address bar shows the URL `192.168.0.108/phpmyadmin/...PMAURL-5:index.php?db=&table=&server=1&target=&token=f7dda12d42a1...`, with a red circle highlighting the domain `192.168.0.108/phpmyadmin/`. The interface includes a left sidebar with a database tree, a top navigation bar with tabs like 'Databases', 'SQL', 'Status', 'Users', 'Export', 'Import', 'Settings', and 'More', and a main content area with sections for 'General Settings', 'Appearance Settings', 'Database server', 'Web server', and 'phpMyAdmin'.

General Settings

- Change password
- Server connection collation: `utf8mb4_unicode_ci`

Appearance Settings

- Language: `English`
- Theme: `pmahomme`
- Font size: `82%`
- More settings

Database server

- Server: Localhost via UNIX socket
- Server type: MariaDB
- Server version: 5.5.44-MariaDB - MariaDB Server
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

Web server

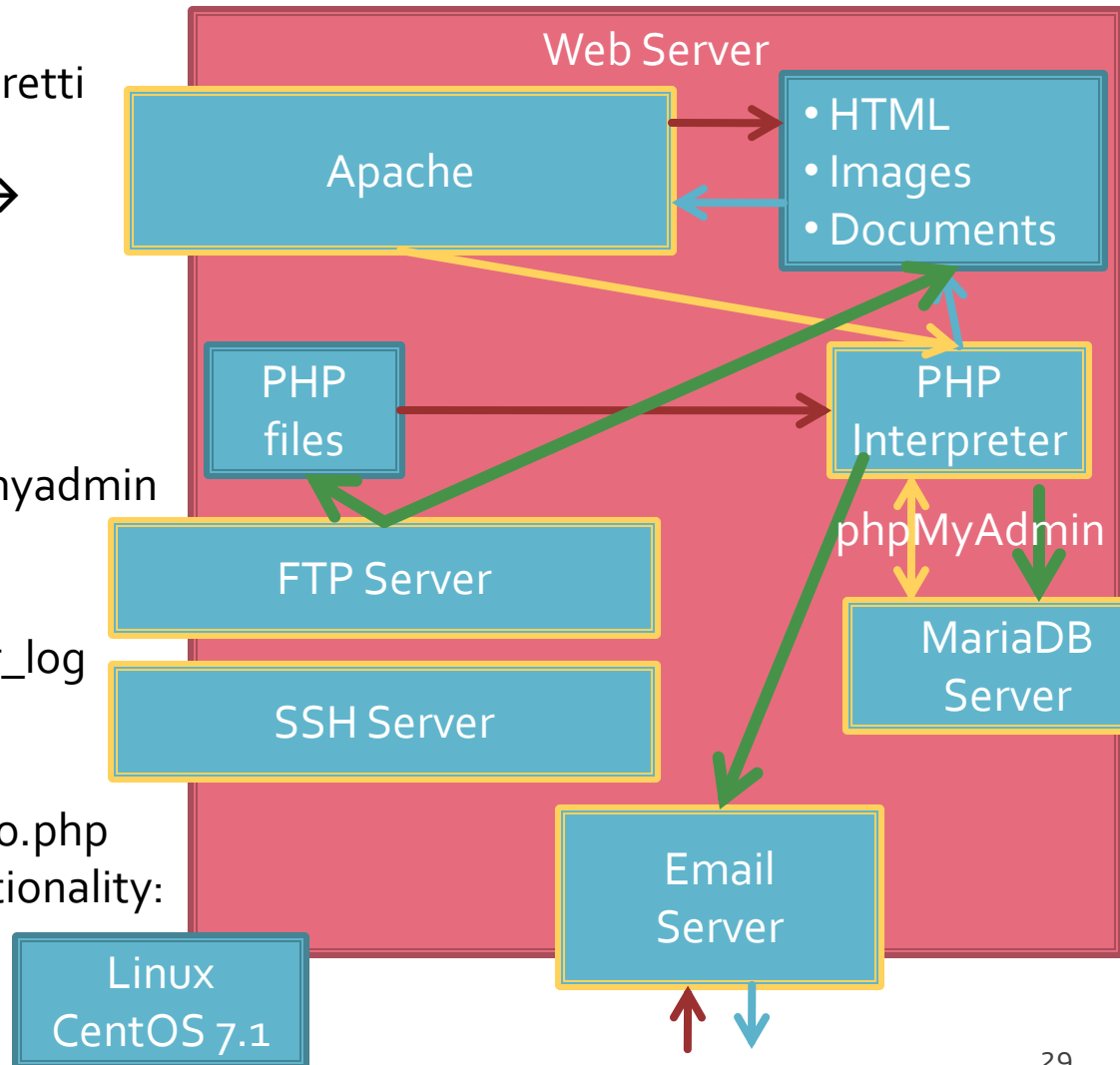
- Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips mod_fcgid/2.3.9 PHP/5.4.16 mod_python/3.5.0- Python/2.7.5
- Database client version: libmysql - 5.5.44-MariaDB
- PHP extension: mysql
- PHP version: 5.4.16

phpMyAdmin

- Version information: 4.4.15.1
- Documentation
- Wiki
- Official Homepage
- Contribute
- Get support
- List of changes

Using LAMP

1. login → root:masterrc / paw:masteretti
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterrc (remote login)
4. [other linux command line]
5. FTP → Winscp → SFTP → student:masterrc@192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterrc / root:masteretti
7. Apache Error Log →
 - 7a. putty → nano /var/log/httpd/error_log
 - 7b. http://192.168.30.5/logfile.php (nonstandard)
8. PHP info → http://192.168.30.5/info.php
9. if DHCP service stops Apache functionality:
service httpd restart



LAMP Reference Server

- Linux, two variants
 - Centos 7.1
 - PHP 5.4.16
 - MariaDB 5.5.44
 - Apache 2.4.6
 - **root**/student:masterrc
 - Ubuntu 20.04 (**recommended**)
 - PHP 7.4.3
 - MariaDB 10.3.31
 - Apache 2.4.41
 - **paw**/student:masteretti
 - correction **paw FTP access**:
 - sudo usermod -a -G upload paw
 - sudo chmod -R 775 /var/www

Introduction

Applications

★ Favorites BCC e-SMART

BANCA COMERCIALA CARPATICA BCC e-SMART internet banking inteligent

Conturi Plati Depozite Rapoarte Setari

Rulare raport Vizualizare rapoarte

ATENTIE!
Va reamintim ca BCC nu solicita informatii confidentiale (user, parola, numar de card, data expirarii cardului, codul PIN) prin e-mail. Aceste informatii nu trebuie divulgate nimanui, sub niciun motiv.
Pentru alte lamuriri, puteti apela 0800.807.807 (numar accesibil din retea Romtelecom).
Aveti posibilitatea sa alegeti procesarea in regim de urgenta a platilor. Aceasta optiune se comisioneaza suplimentar.

Rulare raport

Raport

Ruleaza raportul

☒ imediat

☐ la data 03.03.2010 ora 23:59

Ruleaza

top

surati activitate pe Internet, va rugam sa consultati periodic documentul [SECURITATE INTERNET](#) *** BCC informeaza ca SWIFT poate furniza autor

Applications

Internet Explorer browser window showing the BCR (Banca Comercială Română) website. The address bar displays www.bcr.ro.

The website header includes navigation links: Home, Contact, English, Contact center, Go, Cauta, Go.

The main navigation menu lists: CLICK 24Banking, 24 Banking, Persoane fizice, Private banking, Timeri, PFA, Micro, Corporatii, IMM, Municipalitati, Despre noi, Cariere, Presa.

The sub-navigation menu includes: Lista de conturi, Conturi curente, Economisire, Finantare.

The left sidebar contains a "Favorite" section with a dropdown menu and a list of links:

- Ordin de Plata
- Istoricul tranzactiilor
- Lista ordine de plata
- Sabloane
- Plata repetitiva
- Schimb Valutar
- Cumpara produse
- Deschidere cont curent
- Constituire depozite la termen
- Deschidere cont de economii
- Cumparare CDD
- Ataseaza card de debit
- Aplica pentru un credit
- Curs valutar
- Mesaje(4)
- Contul meu de CLICK 24Banking (Favorite)
- Demo Click 24 Banking

The main content area displays the "Ordin de Plata - Creare" (Create Payment Order) form. The form includes a table with columns: Stare cont, Tip, Numar cont, Sold disponibil, Valuta. The "Tip" column is set to "Conturi curente". The "Valuta" column is set to "RON".

Below the table, the "Detalii" (Details) section includes fields for:

- Sablon personal (Selectati sablon)
- Sablon furnizor (Selectati sablon)
- IBAN beneficiar

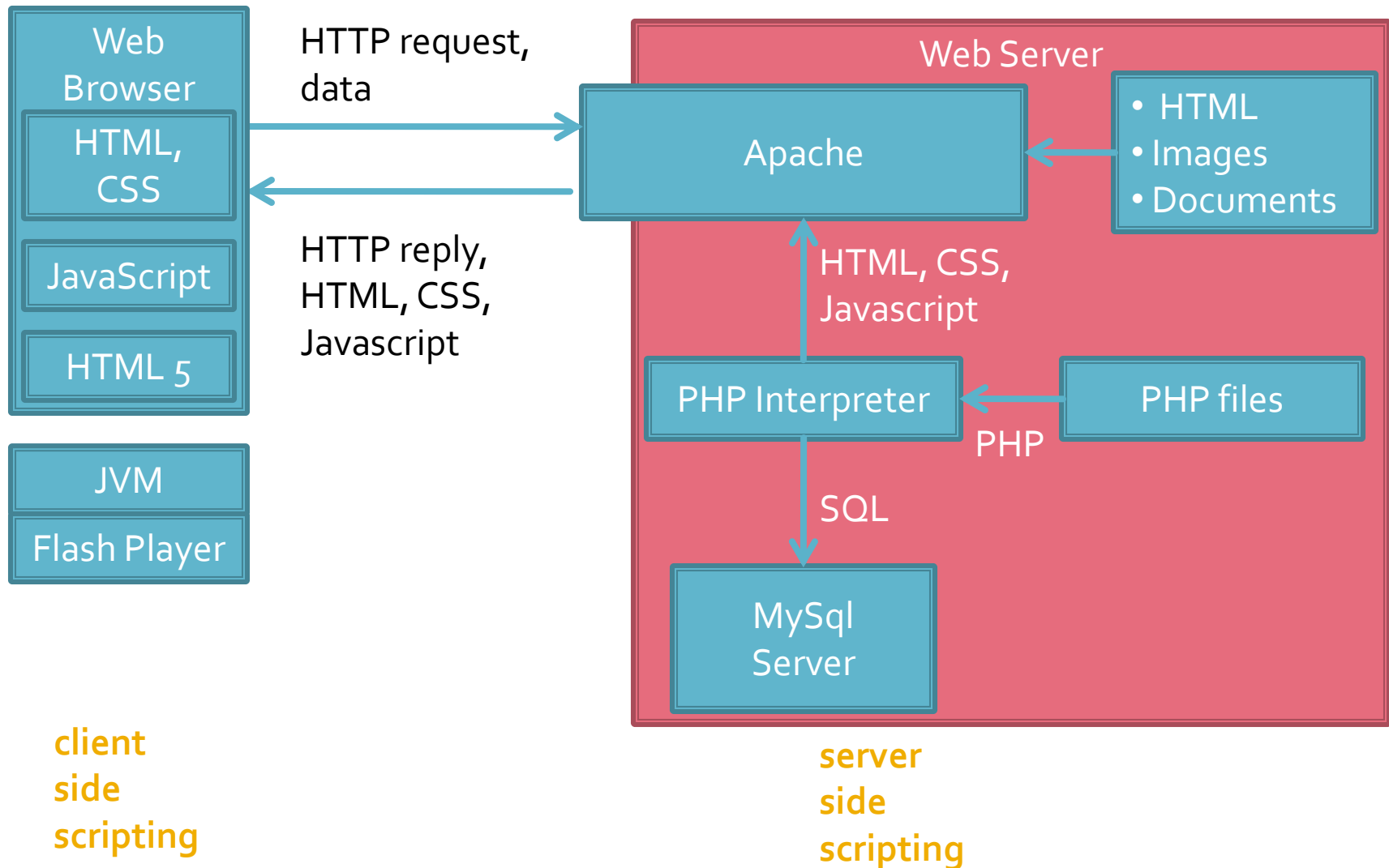
A "Verificare IBAN" button is present. A note states: "Nota: Pentru a ordona o plata, va rugam fie sa introduceti IBAN beneficiar, fie sa selectati un sablon personal sau pentru furnizori. Atentie: Transferurile se pot efectua doar catre conturi deschise in aceeași valuta!"

The bottom section features four tiles:

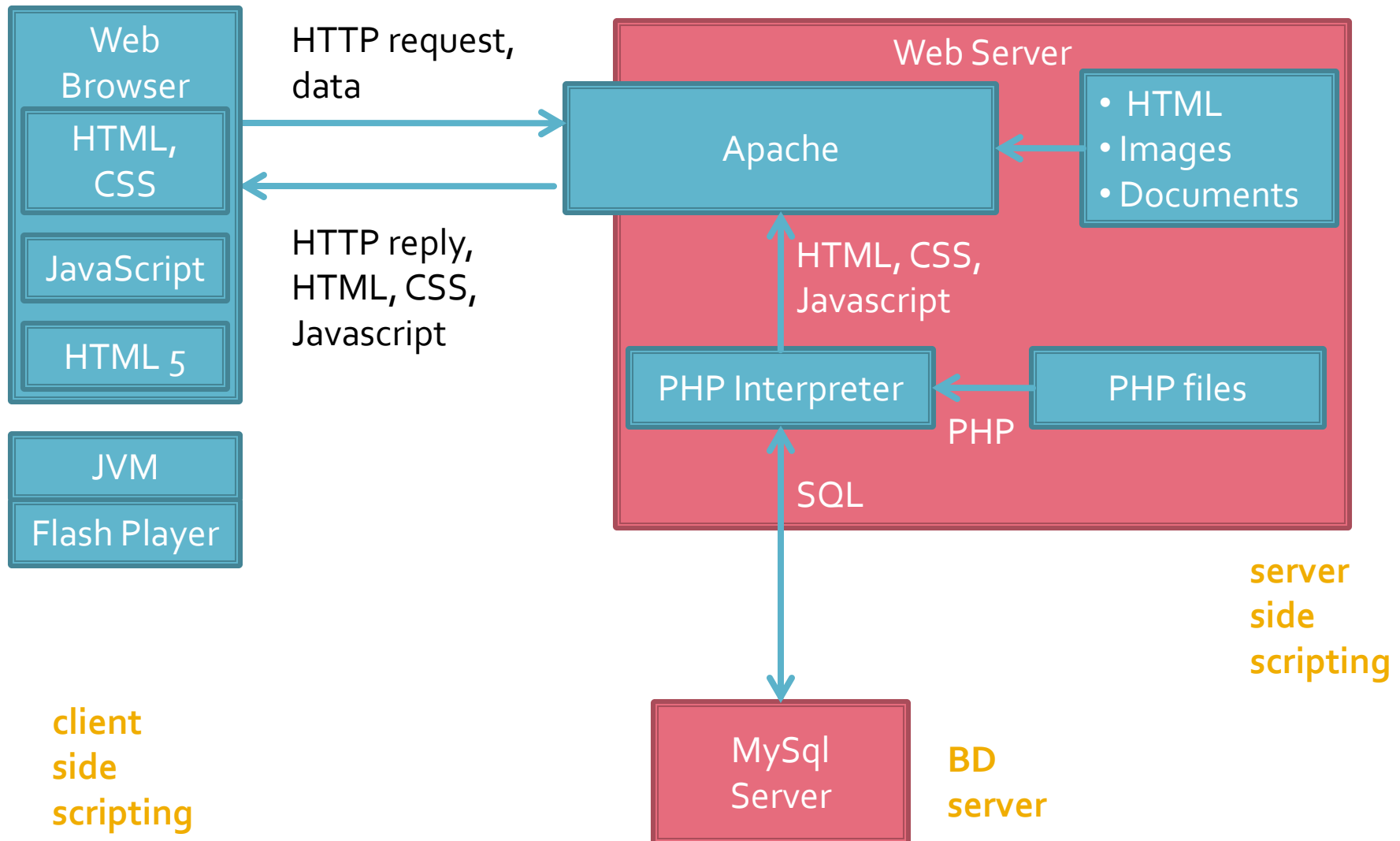
- Tarife si comisioane (details)
- Intrebari si Raspunsuri (details)
- 24 Banking (details)
- Contact center (details)

The footer displays the text: BANCA COMERCIALA ROMANA - SOCIETATE ADMINISTRATA IN SISTEM DUALIST, Bucuresti, B-dul Regina Elisabeta nr.5, Sector 3 | mentiuni legale - © 2008 BCR SA - Toate drepturile rezervate | site map

Client/Server Scripting



Client/Server Scripting



Necessity

```
<td><?php echo $row['Documente'];?>&nbsp;  </td>
<td><?php echo $row['user_creat'];?>&nbsp;  </td>
<td class="smaller"><a href="control_lot.php?id=-<?php echo $row['ID_LOT'];?>">dezactiveaza</a><br /><a href=
"control_lot.php?id=<?php echo $row['ID_LOT'];?>">modifica</a></td>
</tr>
<?php $index++;
    } while ( $row = mysql_fetch_assoc($result));?>
</table><?php
}
else
{
    echo "<p>Nu exista loturi active</p>";
}
?>

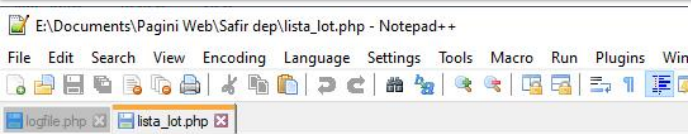
<p class="title">Loturi inactive</p>
<?php
$query = "SELECT l.*, c.`nume_user` AS `user_creat`
FROM `lot` AS l
LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
WHERE l.`Activ` = 0 ORDER BY l.`ID_LOT` DESC";
$result = mysql_query($query);
$total=0;
if ($result && (mysql_num_rows($result) > 0))
{
    $total=mysql_num_rows($result);
    $row = mysql_fetch_assoc($result);
}
if ($total>0)
{?>
<table align="center">
    <tr class="lista_titlu">
        <td align="center">Nu exista loturi inactive</td>
```

Necessity

```
E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php
539 <?php ?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
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548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
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550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
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556 }
557 if ($total>0)
558 {?>
559 <table align="center">
560 <tr class="lista_titlu">
561 <td align="center">Nr.</td>
562 <td>Numar</td>
563 <td>Data</td>
564 <td>Nr. pui</td>
565 <td>Gr. pui</td>
566 <td>Nr. pui morti</td>
567 <td>Gr. pui morti</td>
568 <td>Ferma</td>
569 <td>Documente</td>
570 <td>Creat</td>
571 <td>Comenzi</td>
572 </tr>
573 <?php $index=1;
574 do { ?>
575 <tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_par";?>">
576 <td align="center"><?php echo $index; ?>&nbsp;</td>
577 <td><?php echo $row['Numar'];?>&nbsp;</td>
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```

HTML



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573 <?php $index=1;
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576 <td align="center"><?php echo $index; ?>&nbsp;</td>
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578 <td><?php echo date("d/m/Y", strtotime($row['Data']))
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<td>Data</td>
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<td>Gr. pui</td>
```


HTML + PHP

E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php

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```

HTML + PHP + SQL

```
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$total=0;
if ($result && (mysql_num_rows($result) > 0))
{
$total=mysql_num_rows($result);
$row = mysql_fetch_assoc($result);
}
```


HTML

- Offers **the logical structure** of the document
- Required
 - the **final result** of any type of programming for a distributed application web is almost exclusively HTML code (HTML structure eventually manipulated by “client side scripting”/Javascript)
- Curs 1 PAW 2021-2022 – Recapitulare HTML (RO + video)
- Course: Web Technologies (2012-2013) (EN)
 - <http://rf-opto.etti.tuiasi.ro/internet.php>
 - Web Technologies, Lecture 5
 - Web Technologies, Lecture 6

HTML 5



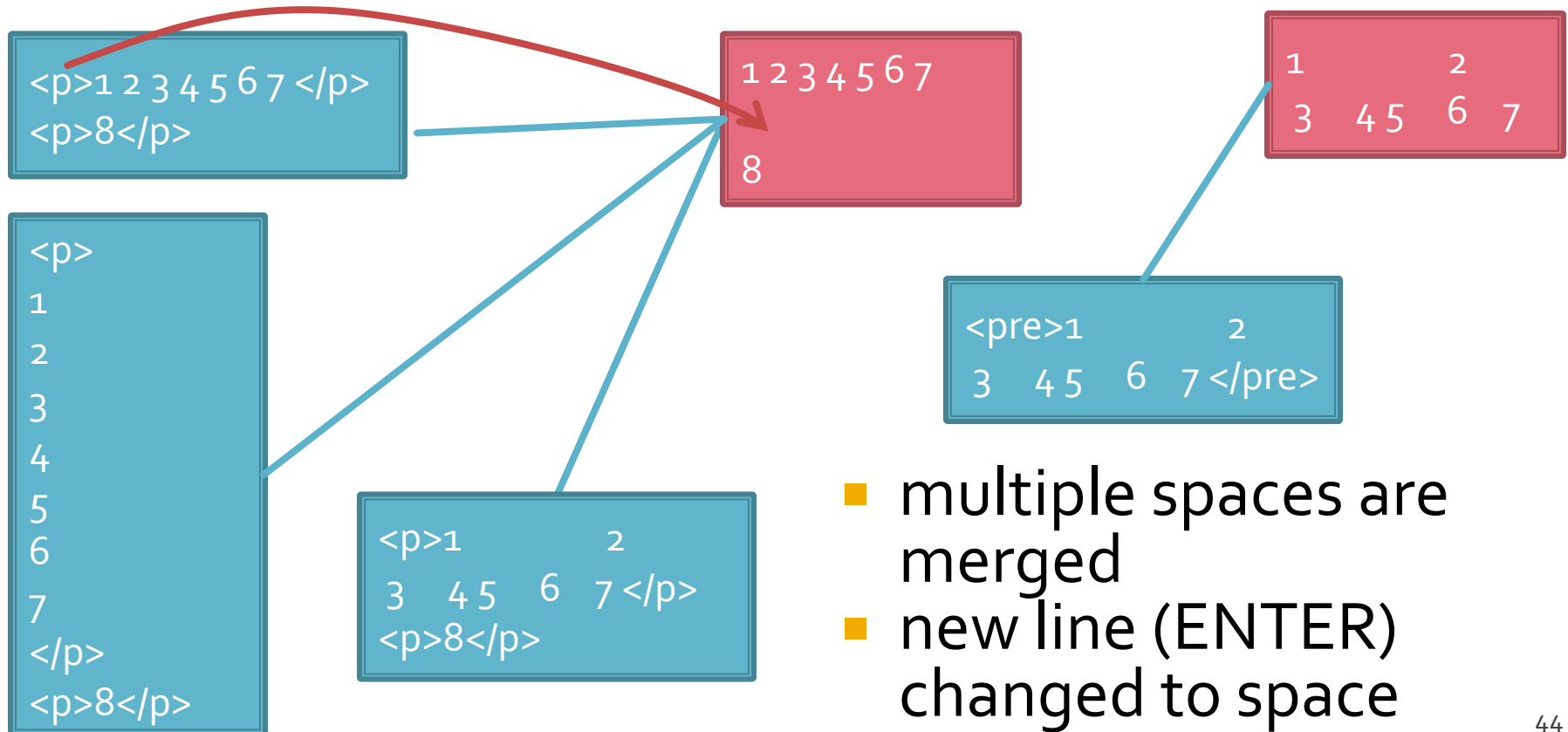
- (**Increasing!**) Support in browsers
 - Certain future
- Features
 - **Web Workers**: background threads for processing.
 - **Video**: Video becomes as easy as embedding an image.
 - **Canvas**: allows a web developer to render graphics on the fly.
 - **Application caches**: Web pages will start storing more and more information locally on the visitor's computer.
 - **Geolocation**: Best known for use on mobile devices, geolocation is coming with HTML5.

HTML Concepts 1

- An HTML document is an **ASCII** document (Notepad) containing **tags**, interpreted and displayed by the browser (View Source)
- Tags: (etichete, marcaje – RO), `<>`
 - individual: `<X/>`
 - ex: `
` (`
` - HTML)
 - container: `<X> Any_Content</X>`
 - ex: `<p>One paragraph</p>`
 - Tag **X** impose the way "**Any_Content**" will be part of the document/be displayed on the screen
 - most tags are container

HTML and Format









- Format of the source document (ASCII) is irrelevant
 - only exception: `<pre>....</pre>`



Attributes

- Options (properties) of the tag, used to detail the effect of that particular tag
- In container tags, introduced only in the starting tag
 - `<p id="un_id" align="left">ceva </p>`
- Attributes are keywords and their name must be correctly spelled. (XML allows user defined attributes, but not HTML and XHTML)
- Attribute value, both:
 - keywords
 - user defined

Major differences XHTML vs. HTML

- Tag inclusion, mandatory
 - `<X>....<Y>....</Y>.....</X>` 
 - `<X>....<Y>....</X>.....</Y>` 
- Tags must be always closed
 - `<p>....</p><p>.... </p>,
, <meta />` 
 - `<p>....<p>....,
, <meta >` 
- Tags must be written in lower case
 - `<p>,
, <frameset>` 
 - `<P>,
, <FrAmesET>` 
- Attributes must be lowercase and their values written between quotation marks
 - `<p align="left">, <table width="100">, ` 
 - `<p Align="left">, <table width=100>, ` 
- All information must be enclosed inside `<html>... </html>` container tag

HTML Concepts 3

x
`<x> Content modified by x</x>`

Legal in
XHTML/HTML

x and atrib and val
`<x atrib="val"> Content modified by x and atrib and val </x>`

Legal in
XHTML/HTML

x
`<x> Content <y> Content modified by x and y</y> modified by x</x>`

Legal in
XHTML/HTML

x y
`<x> C. modified by x <y> C. modified by x and y </x> C. modified by y</y>`
y

Legal **only** in
HTML 4
not
recommended

Minimal HTML Document

```
<!DOCTYPE .....
```

```
<html>
```

```
<head>
```

```
....
```

```
</head>
```

```
<body>
```

```
....
```

```
</body>
```

```
</html>
```



<frameset> **not existent**
in HTML 5

```
<!DOCTYPE .....
```

```
<html>
```

```
<head>
```

```
....
```

```
</head>
```

```
<frameset>
```

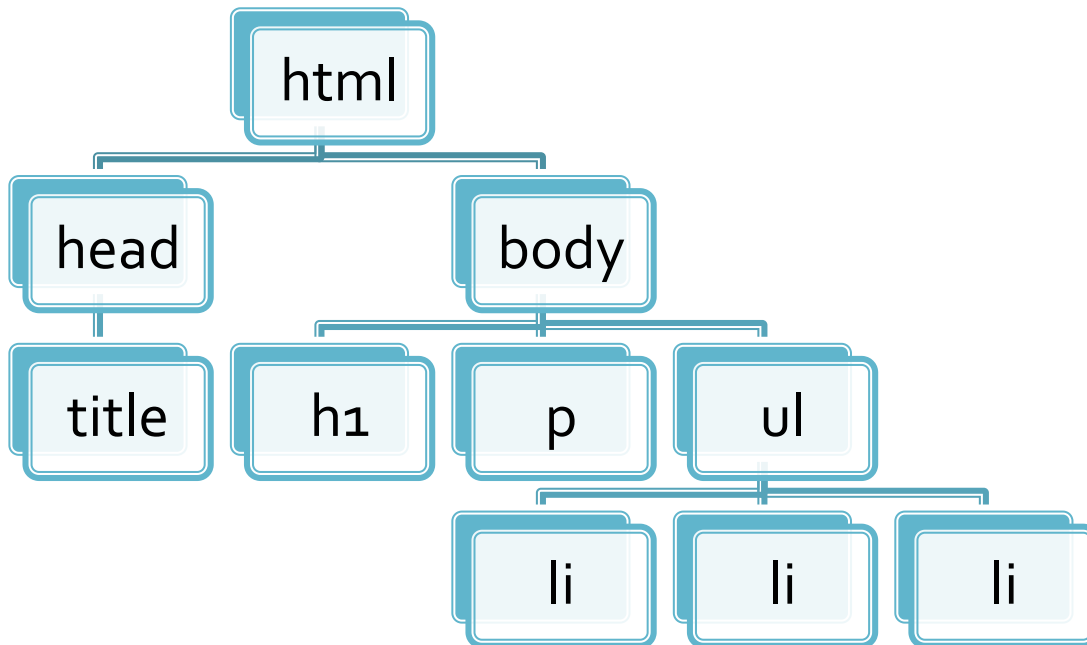
```
....
```

```
</frameset>
```

```
</html>
```


DOM

- DOM – Document Object Model: logical tree type structure



```
<html>
  <head>
    <title>pagina mea</title>
  </head>
  <body>
    <h1>Compozitori:</h1>
    <p>
      <ul>
        <li> elvis costello
        <li> johannes brahms
        <li> georges brassens
      </ul>
    </p>
  </body>
</html>
```

CSS

- Cascading Style Sheets
- Introduced to separate the **content** of a document from its **presentation** (layout, colors, fonts)
- Allows:
 - Increased accessibility (same document can be displayed on multiple devices)
 - Multiple web pages can share formatting
 - Reduce complexity of content positioning

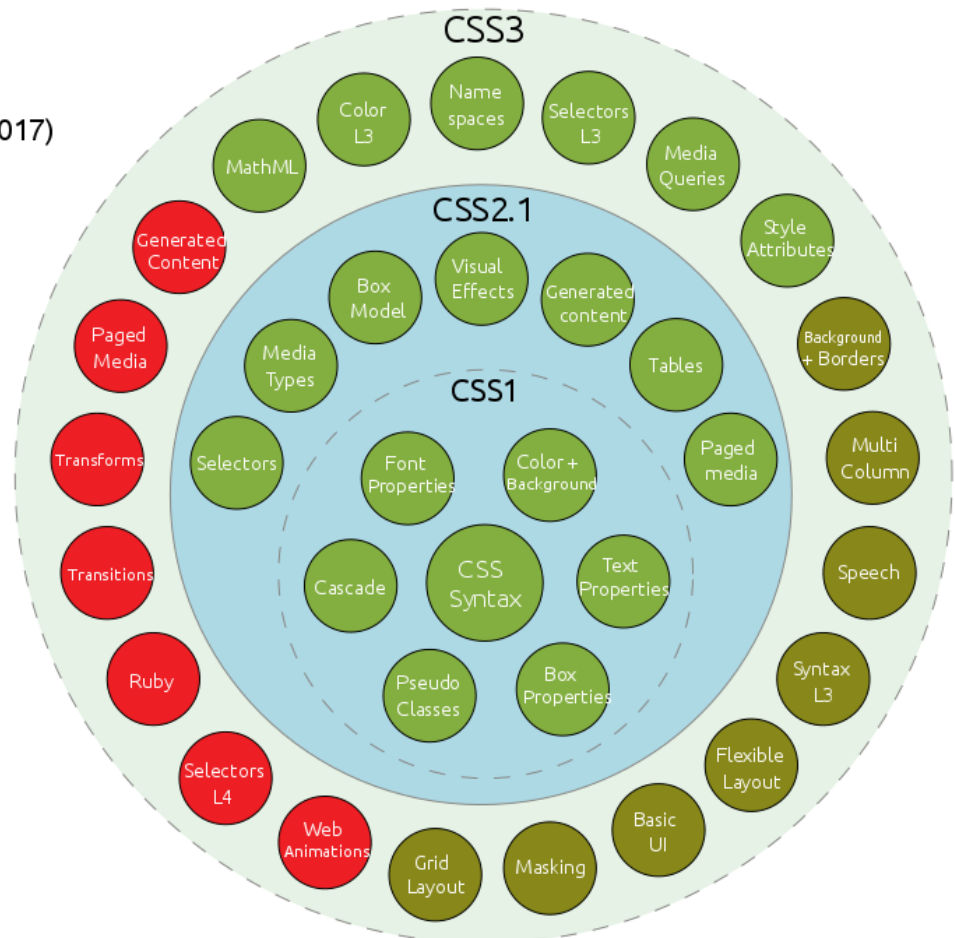
CSS

- Offers **the form** of the document

CSS3

Taxonomy & Status (September 2017)

- W3C Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Obsolete or inactive



CSS vs. HTML

- HTML
 - **logical structure** of the document
- CSS
 - effective **form/shape** of the document
- HTML 5
 - HTML tags regarding the **form** (, color="red") were introduced in HTML 3.2 and declared **deprecated** in HTML 4.01
 - **disappear** in HTML 5

CSS vs. HTML

```
<!DOCTYPE html PUBLIC
<html>
<!-- created 2003-12-12 -->
<head>
  <title>sample</title>
</head>
<body>
  <p>Voluptatem accusantium
    totam rem aperiam.</p>
</body>
</html>
```

HTML

```
h1 { color: white;
      background: orange;
      border: 1px solid bla
      padding: 0 0 0 0;
      font-weight: bold;
}
/* begin: seaside-theme */

body {
  background-color:white;
  color:black;
  font-family:Arial,sans-serif;
  margin: 0 4px 0 0;
  border: 12px solid;
}
```

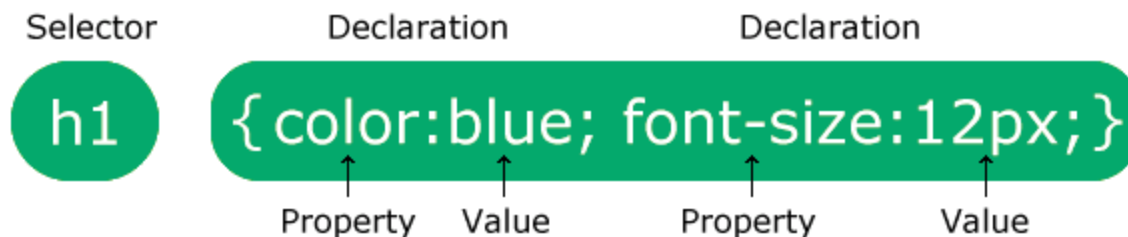
CSS

CSS concepts

- Three ways of specifying styles
 - External styles (External style sheet)
 - Internal styles (Internal style sheet)
 - Inline styles (Inline style)
- Three entities which impose styles:
 - display device (browser default)
 - author of the document
 - reader of the document

CSS Concepts

- A CSS rule: a selector and a declaration block:
 - Selector { "CSS declaration"; ["CSS declaration";] }
- CSS declaration:
 - property:value;
- CSS Comments
 - Similar with C/C++ , PHP, etc.
 - Between `"/**"` and `"*/"`

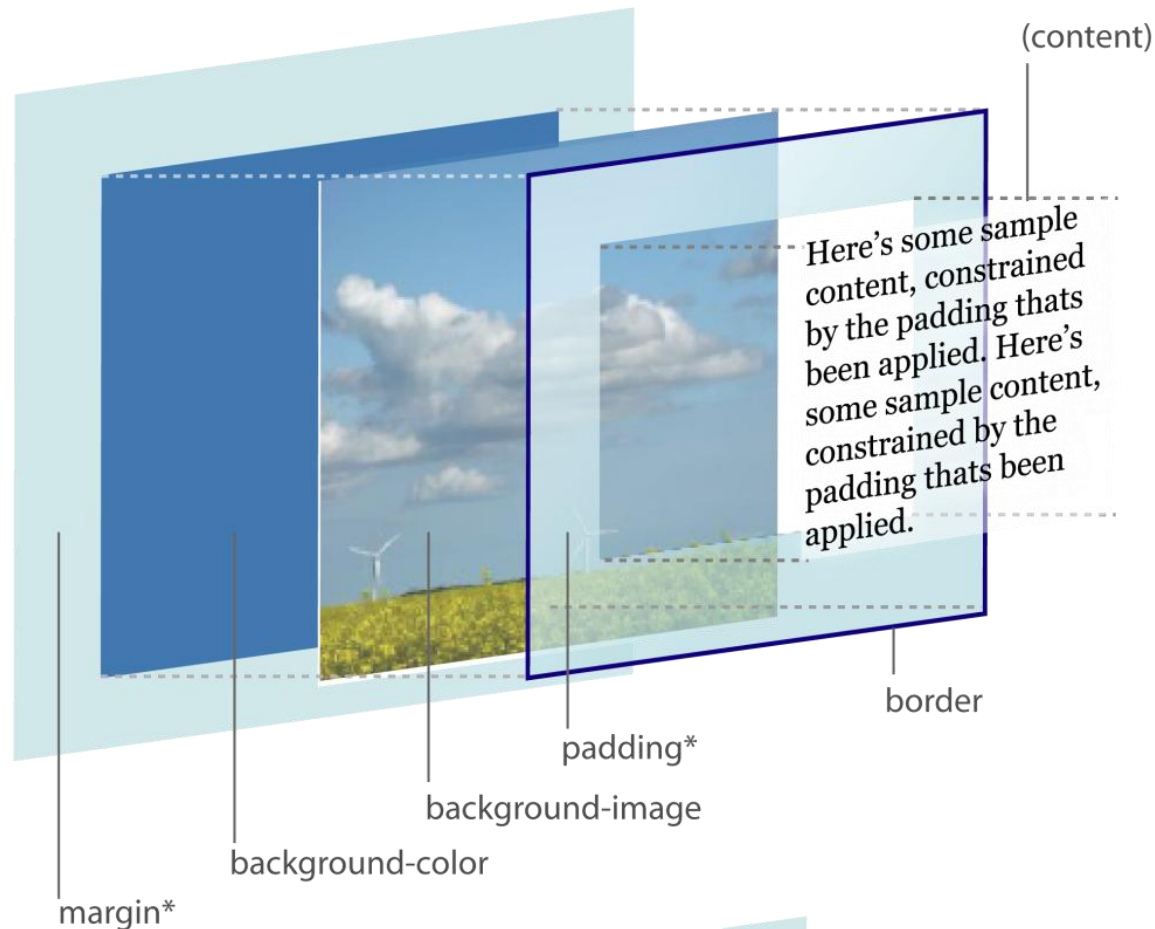


CSS Selectors

- HTML element selector
 - introduced to modify the standard display of HTML tags
- CSS class Selector – “.”
 - introduced to work in conjunction with the HTML attribute `class=“...”`
 - useful for applying form uniformly to multiple elements in a document
- CSS id Selector – “#”
 - introduced to work in conjunction with the HTML attribute `id=“...”`
 - useful for applying a specific form to a single element in a document

CSS Box Model

THE CSS BOX MODEL HIERARCHY



* transparent elements

Usability rules

- Steve Krug: “**Don't Make Me Think, Revisited**”
- Users scan the pages, don't really read them
- Information must be reduced to the sufficient minimum in most places
- “If something is hard to use, I can live without it”
- Web users tend to act **shark like**
- Originality is not always recommended

CSS Zen Garden

- <http://www.csszengarden.com/>
- fixed HTML file
- changing the form **only** allowed by changing the CSS styles

CSS Zen Garden – HTML original

css Zen Garden

The Beauty of CSS Design

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the

Download the sample [html file](#) and [css file](#)

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless effort

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with your eyes. Become one with the web.

So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and educate. When you load the style sheet into this very page. The code remains the same, the only thing that has changed is the style.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated is by placing it in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks

CSS Zen Garden



Css Zen Garden

the beauty of css design.

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[\[X\] DOWNLOAD THE SAMPLE HTML FILE AND CSS FILE](#)



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SELECT A DESIGN:

☐ [Under the Seal](#)
by Eric Stoltz

☐ [Make 'em Proud](#)
by Michael McLaughlin and
Scotty Relfanyder

☐ [Orchid Beauty](#)
by Kevin Addison

☐ [Oceanscape](#)
by Justin Gray

☐ [CSS Co., Ltd.](#)
by Benjamin Klemm

☐ [Sakura](#)
by Tatsuya Uchida

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Participation



Graphic artists only please. You are modifying this page, so strong [css](#) skills are necessary, but the example files are commented well enough that even [css](#) novices can use them as starting points. Please see the [css Resource Guide](#) for advanced tutorials and tips on working with [css](#). You may modify the style sheet in any way you wish, but not the [HTML](#). This may seem daunting at first if

CSS Zen Garden



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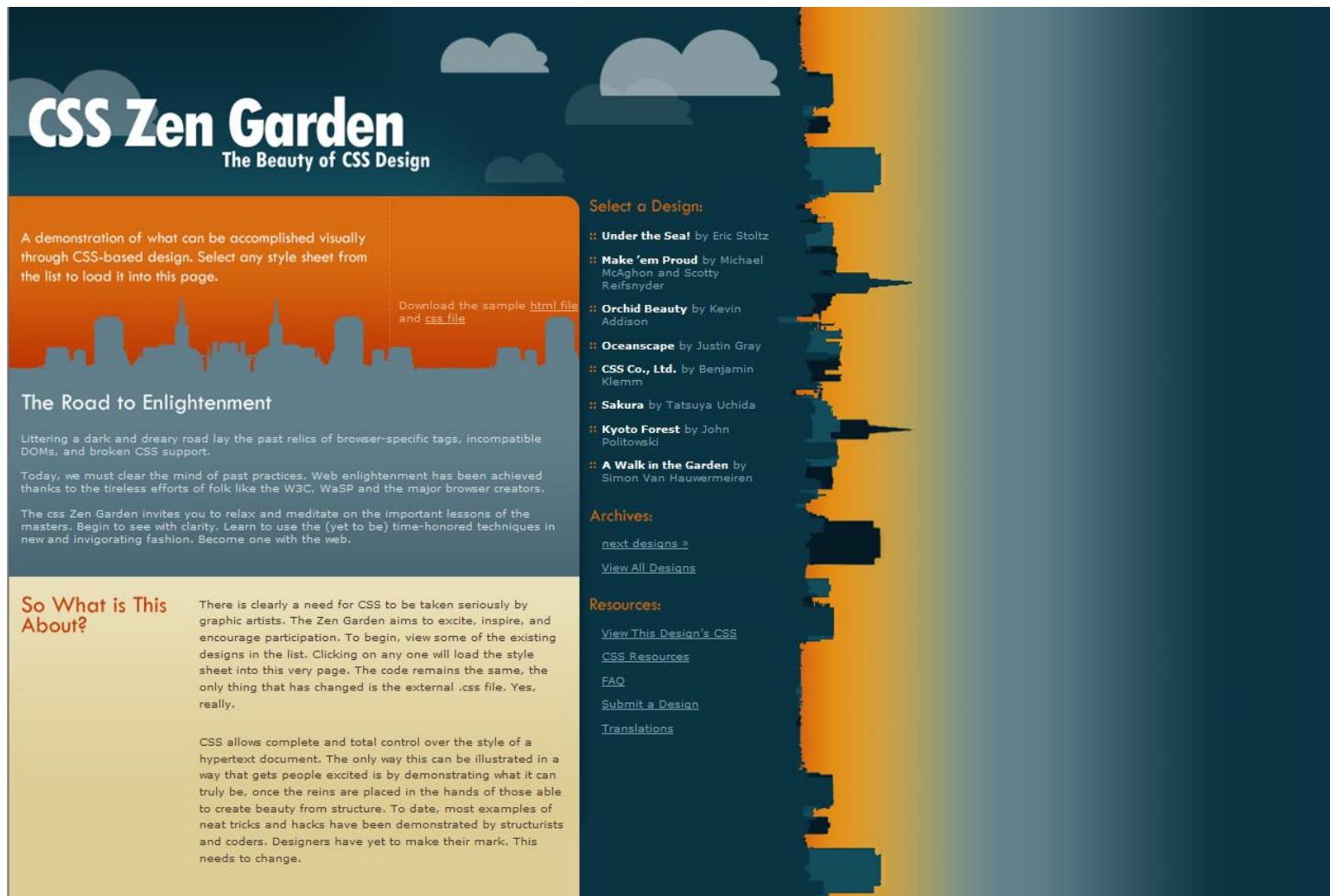
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The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the external .css file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks have been demonstrated by structurists and coders. Designers have yet to make their mark. This needs to change.

Select a Design:

- :: **Under the Sea!** by Eric Stoltz
- :: **Make 'em Proud** by Michael McAghon and Scotty Reifsnnyder
- :: **Orchid Beauty** by Kevin Addison
- :: **Oceanscape** by Justin Gray
- :: **CSS Co., Ltd.** by Benjamin Klemm
- :: **Sakura** by Tatsuya Uchida
- :: **Kyoto Forest** by John Politowski
- :: **A Walk in the Garden** by Simon Van Hauwermeiren

Archives:

- [next designs »](#)
- [View All Designs](#)

Resources:

- [View This Design's CSS](#)
- [CSS Resources](#)
- [FAQ](#)
- [Submit a Design](#)
- [Translations](#)

CSS Zen Garden

The Beauty of CSS Design

A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example [html file](#) and [css file](#)



The Road to Enlightenment

So What is This About?

There is a continuing need to show the power of CSS. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The HTML remains the same, the only thing that has changed is the external CSS file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. Designers and coders alike have contributed to the beauty of the web; we can always push it further.

HTML
CSS
CC
A11y
GH

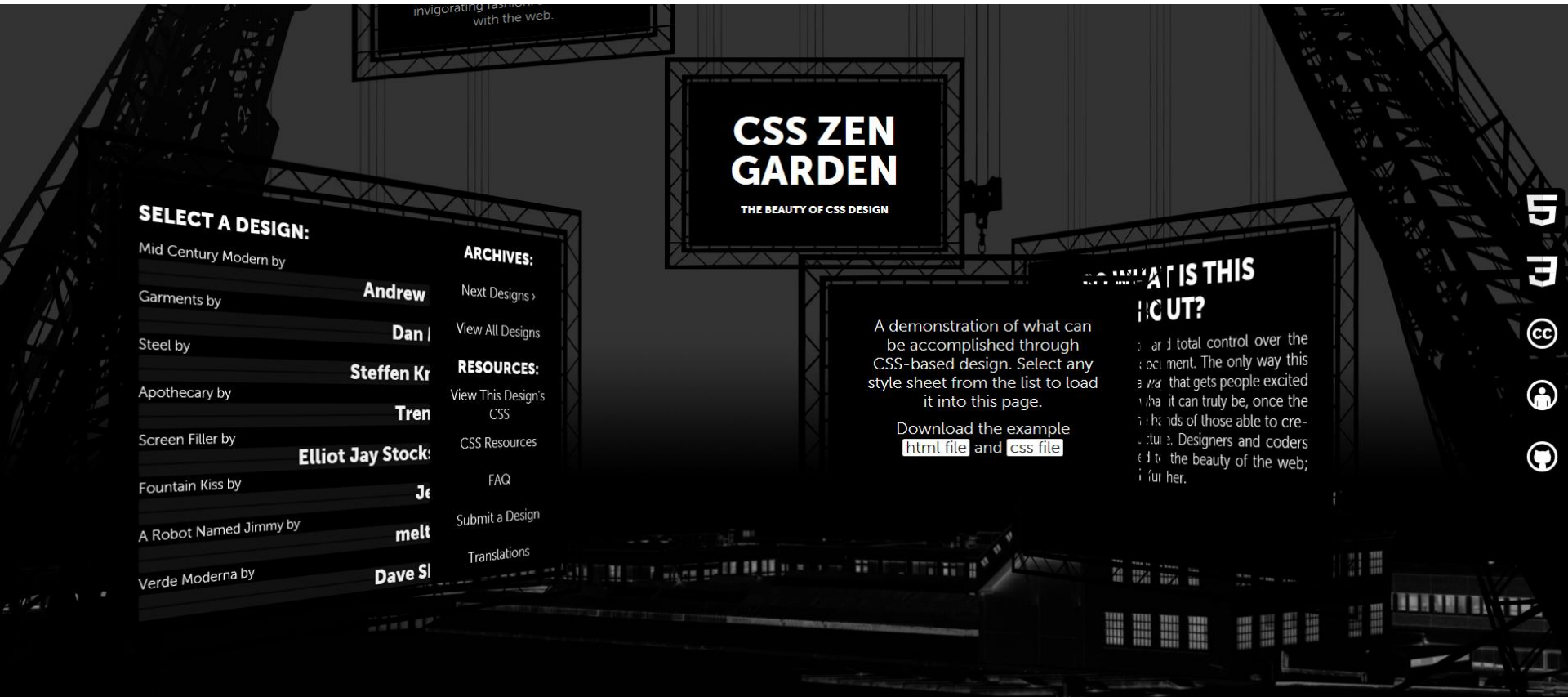
Participation

Strong visual design has always been our focus. You are modifying this page, so strong CSS skills are necessary too, but the example files are commented well enough that even CSS novices can use them as starting points. Please see the [CSS Resource Guide](#) for advanced tutorials and tips on working with CSS.

You may modify the style sheet in any way you wish, but not the HTML. This may seem daunting at first if



CSS Zen Garden



CSS Zen Garden

CSS ZEN GARDEN

The Beauty of CSS Design

A DEMONSTRATION OF WHAT CAN BE ACCOMPLISHED THROUGH CSS-BASED DESIGN. SELECT ANY STYLE SHEET FROM THE LIST TO LOAD IT INTO THIS PAGE.

DOWNLOAD THE EXAMPLE [HTML FILE](#) AND [CSS FILE](#)

Select a Design:

[Mid Century Modern](#) by [Andrew Lohman](#)

[Garments](#) by [Dan Mall](#)

[Steel](#) by [Steffen Knoeller](#)

[Apothecary](#) by [Trent Walton](#)

[Screen Filler](#) by [Elliot Jay Stocks](#)

[Fountain Kiss](#) by [Jeremy Carlson](#)

[A Robot Named Jimmy](#) by [meltmedia](#)

[Verde Moderna](#) by [Dave Shea](#)

Archives:

[Next Designs](#) ›

[View All Designs](#)

Learn more

- Web Hypertext Application Technology Working Group (WHATWG) HTML Living Standard
 - <https://html.spec.whatwg.org/>
- W3Schools Online Web Tutorials
 - <https://www.w3schools.com/html/>
 - <https://www.w3schools.com/css/>
 - + JavaScript, PHP, SQL, Python

Web application

Web application

- Implies processing data and generating a customized document (direct result of the input data)
- input data can originate:
 - from the user
 - from an external source (DB)
 - a **combination** user/DB

Forms in HTML

- required for the user to send data to the server
- `<form>...</form>`
- Specific attributes:
 - action: address of the document which receives the data
 - `<form action="<?php echo $_SERVER['PHP_SELF'];?>">`
 - `<form action="actiuni/file2.html">`
 - method: method for transmitting data: post or get
 - `<form method="post" action= ... >`

Methods

- **post** : data is transmitted as a block (inside the body of the HTTP request)
- **get** : appends form-data into the URL :
`results.php?prob=81&an=2009`
- **get** must be used only for “idempotent” data,
 - no collateral effects
 - no change in server status (databases, etc)
- we can emulate a form (**get**) by writing links appropriately

Form elements

- inside `<form>...</form>`
 - input
 - select/option
 - textarea
 - button
- **all** elements will have a name
 - attribute: **name**=""
 - the name will be directly present in the URI generated by get, or will be a variable sent by post
- data is effectively sent by a **type="submit"** button

INPUT

- `<input .../>`
- Attributes:
 - type: text | password | checkbox | radio | submit | reset | file | hidden | image | button
 - name: variable name
 - value: data to send to the server on submitting the form (initial data in some cases)
 - checked/src/size/maxlength depending on type

Examples

```
<input name="textfield" type="text" value="ceva" />
```

```
<input name="Ok" type="submit" value="Trimite" />
```

```
<label><input name="check" type="checkbox" value="5" checked />check1</label>
```

```
<label><input name="RG1" type="radio" value="a" checked="checked" />but1</label>
```

```
<label><input name="RG1" type="radio" value="b" />but2</label>
```

```
<input name="hid" type="hidden" value="6" />
```

ceva

Trimite



check1



but1



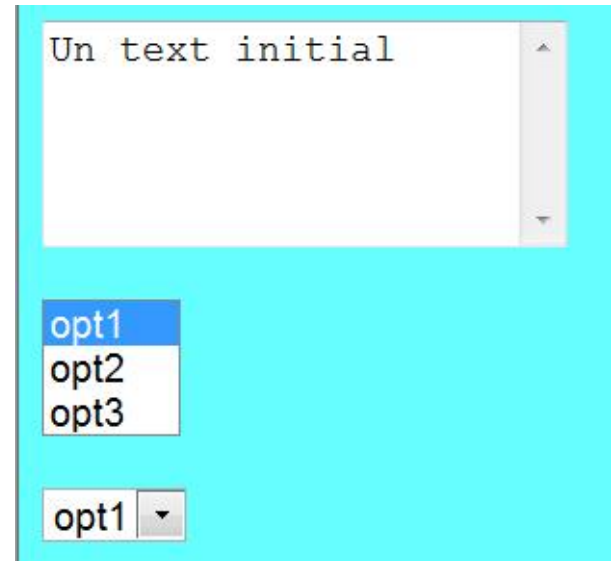
but2

TEXTAREA/SELECT

```
<textarea name="textarea" cols="20" rows="5">Un text  
initial</textarea><br /><br />
```

```
<select name="select." size="3">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select><br /><br />
```

```
<select name="select...">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select>
```



Un text initial

opt1
opt2
opt3

opt1 ▼

BUTTON

```
<button type="button" onClick="do ( );">Click Here</button>
```

```
<button type="submit" value="infoOnly">Request Info</button>
```

```
<button type="reset">Clear</button>
```

```
<button type="submit" id="sender"  
value="infoOnly">Request<br />Info<br /></button>
```

```
<button type="submit" id="sender"  
value="infoOnly"><p>Request</p><p><b><i>Info</i></b></p>  
</button>
```

- introduced to insert complex content in buttons (formatted text, images)
- Not always the best idea (Don't make me think!)

Click Here

Request Info 

 Clear

Request
Info



Request

Info



Exemplu – forma

- Mic magazin online
- Formular de comanda cu procesarea comenzii

```
<html>
<head>
<title>Magazin online XXX SRL</title>
</head>
<body>
<h1>Magazin online XXX SRL</h1>
<h2>Realizati comanda</h2>
<form action="rezultat.html" method="post">
<table border="0">
<tr bgcolor="#cccccc"><td width="150">Produs</td><td width="15">Cantitate</td></tr>
<tr><td>Carti</td><td align="center"><input type="text" name="carti_cant" size="3" maxlength="3" /></td></tr>
<tr><td>Caiete</td><td align="center"><input type="text" name="caiete_cant" size="3" maxlength="3" /></td></tr>
<tr><td>Penare</td><td align="center"><input type="text" name="penare_cant" size="3" maxlength="3" /></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="Trimite" /></td></tr>
</table>
</form>
</body>
</html>
```

Magazin online XXX SRL

Realizati comanda

Produs	Cantitate
Carti	<input type="text" value="1"/>
Caiete	<input type="text" value="2"/>
Penare	<input type="text" value="3"/>

Contact

- Laboratorul de microunde si optoelectronica
- <http://rf-opto.etti.tuiasi.ro>
- rdamian@etti.tuiasi.ro