

Curs 5

2019/2020

Programarea aplicațiilor web

- Programarea aplicațiilor web
 - An V RC
 - $2C/1L/1P$

Nota

- An V
 - ~~33%~~ E: 40%
 - ~~66%~~ Aplicatii
 - ~~33%~~ L (0%)
 - ~~33%~~ P (60%)

2019/2020

Project

Proiect

- On-line
- Teme mai simple
- Evaluare diferita (fara sustinere)
- Predare 3 fisiere
 - un fișier ***.pdf** (print-screen din aplicația rulată, cu scurte explicații de utilizare, un mini-manual al aplicației respective)
 - un fișier ***.sql** cu backup-ul bazei de date de care are nevoie aplicația pentru a funcționa
 - un fișier cu arhiva directorului conținând aplicația (fișiere *.php, *.jpg, structură de directoare etc., arhivate: ***.zip**, ***.7z** etc.)

Evaluarea proiectelor

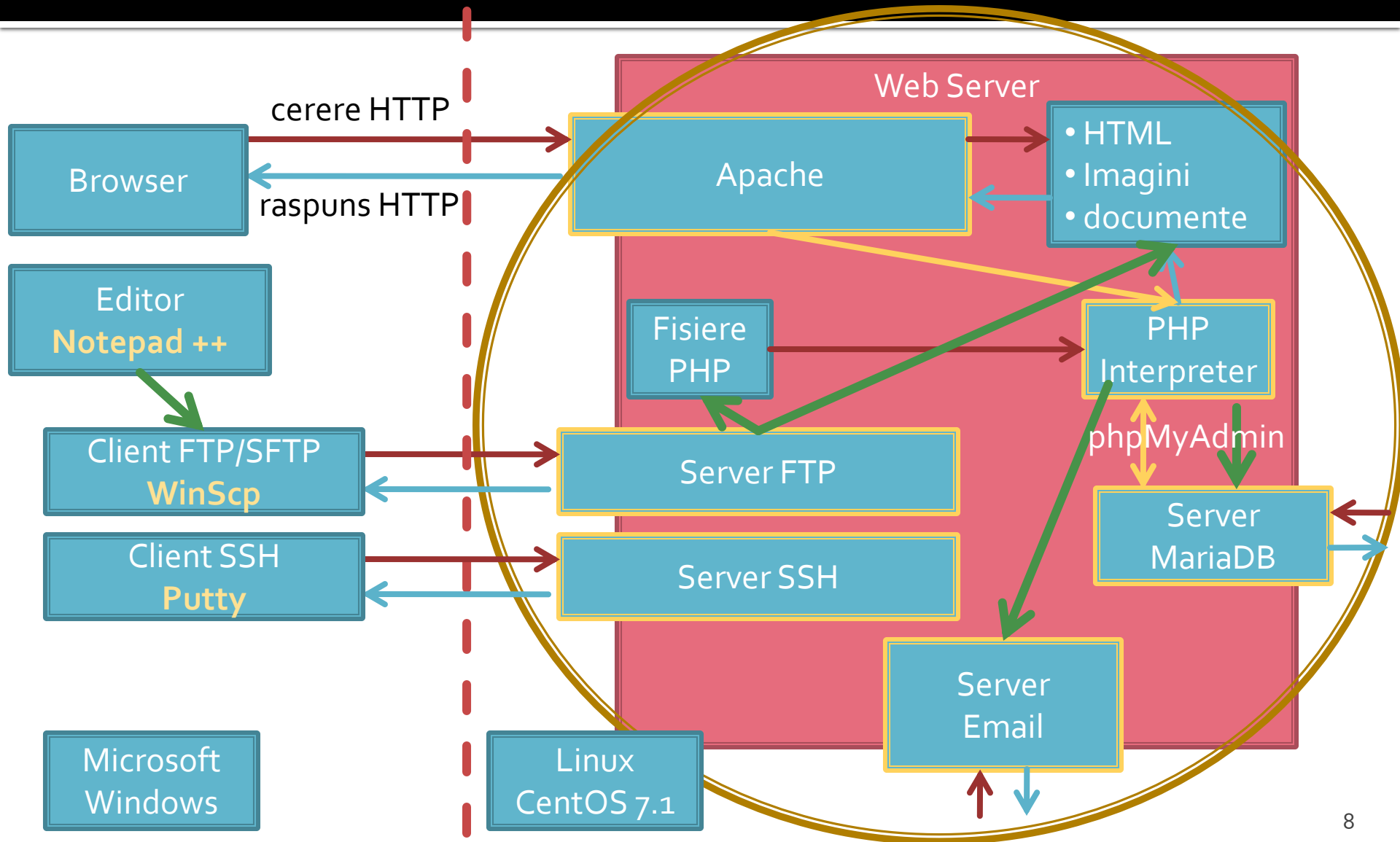
- **(3p)** aplicația rulează pe **server-ul de referință** (care se poate download-a de pe serverul laboratorului: CentOS 7, php 5): se scot fișierele din arhiva ***.zip** într-un director din rădăcina serverului, se restaurează baza de date (import) din fișierul ***.sql**
- **(3p)** fișierul ***.pdf** cu manualul aplicației există și corespunde cu tema primită (fiecare student din echipă pentru punctul propriu din aplicație)
- **(3p)** rularea **aplicației instalate** produce aceleași efecte ca în manualul ***.pdf** (fiecare student din echipă pentru punctul propriu din aplicație) și corespunde cu tema primită

Conditii

- necesitatea conlucrării între 2 studenți cu două teme “pereche” ✓
 - În caz de necesitate, pentru completarea echipei cadrul didactic poate fi membru al echipelor
- număr de pagini dinamice ✓
 - fiecare temă va trebui să conțină macar două pagini dinamice
- număr de înregistrări în baza de date ✓
 - anumite erori devin vizibile când sunt mai multe date prelucrate

Tema de nota ...	Pagini	Inregistrari
-	$4 = 2 \times 2$	30

Utilizare LAMP



Utilizare LAMP

- diferente principale fata de server-ul Windows
 - comenzile in sistem greoaie
 - linie de comanda, SSH, Putty
 - fisierele sunt trimise prin FTP
 - Copy/Paste indisponibil
 - administrarea serverului MySql:
 - prin phpMyAdmin (instalat)
 - prin (eventuale) instrumente instalate pe masina host (MySQL Workbench)

Utilizare LAMP – Avantaje

- Avantaje principale fata de server-ul Windows
 - Aplicatiile au versiuni actualizate (**2020 ~**)
 - CentOS/7.1, Apache/2.4.6, PHP/5.4.16, MariaDB/5.5.44, PhpMyAdmin/4.4.15
 - Aplicatii disponibile similare celor intalnite in practica
 - SSH
 - FTP
 - Email
 - pentru utilizarea deplina a acestor aplicatii este utila trecerea interfetei de retea a masinii virtuale **Host-only** -> **Bridged**

Server referinta

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

Project/Design

~~[Teme proiect 2020 \(pdf, 874.95 KB, ro, 🇷🇴\)](#)~~

[Sevrer CentOS pentru VMWare Player \(cloud\)](#) (link, 0 Bytes, ro, 🇷🇴)

~~[Realizare Server CentOS \(pdf, 1.4 MB, en, 🇸🇪\)](#)~~

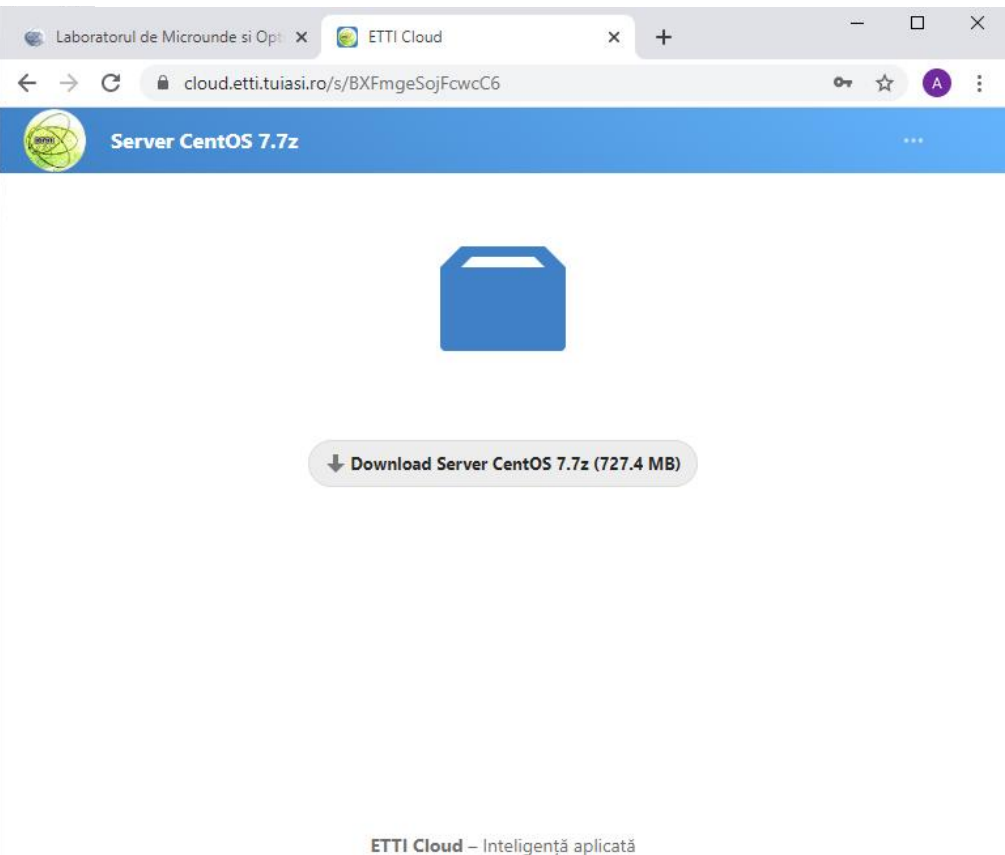
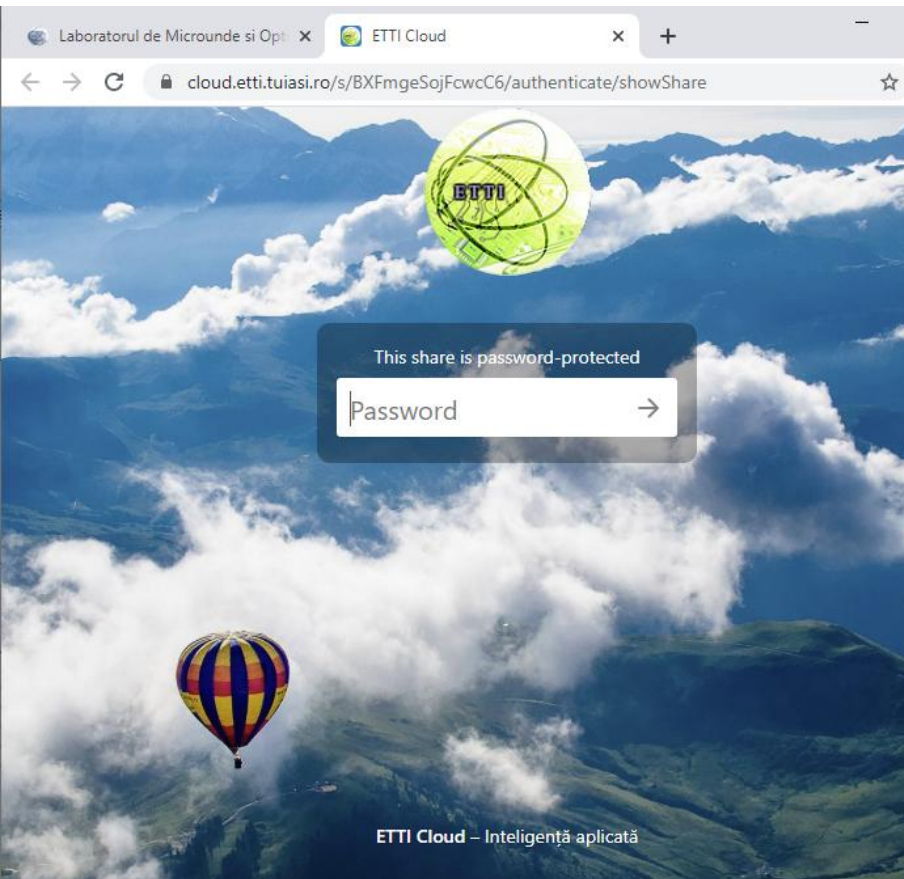
Examen

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

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

Server referinta

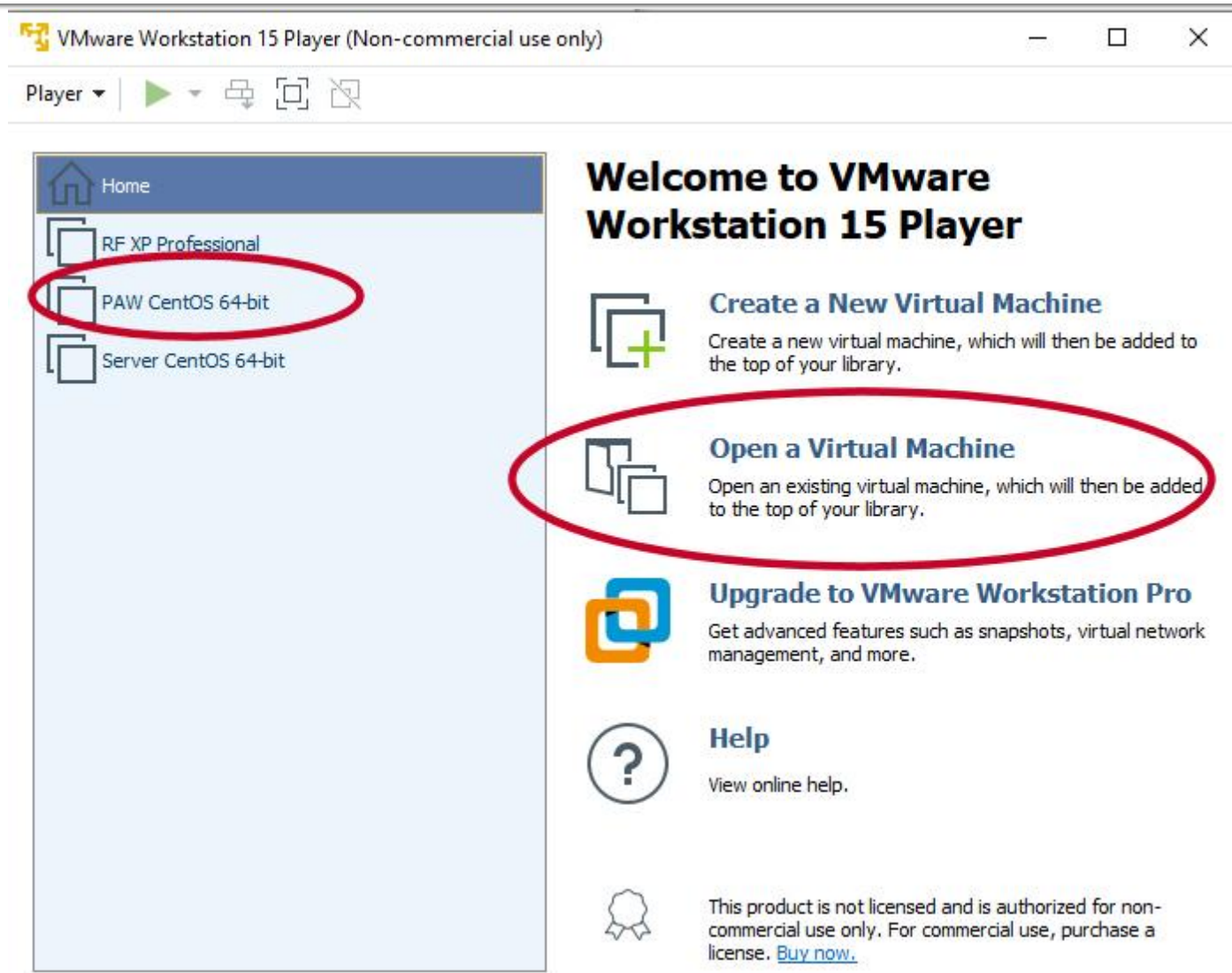
■ Cloud ETTI: RF-opto3#



Server referinta

- Masina virtuala
- VMware Workstation Player
 - Gratuit (non-comercial)
 - <https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html>

Server referinta



Aplicatii suport

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

Adresa IP

- 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

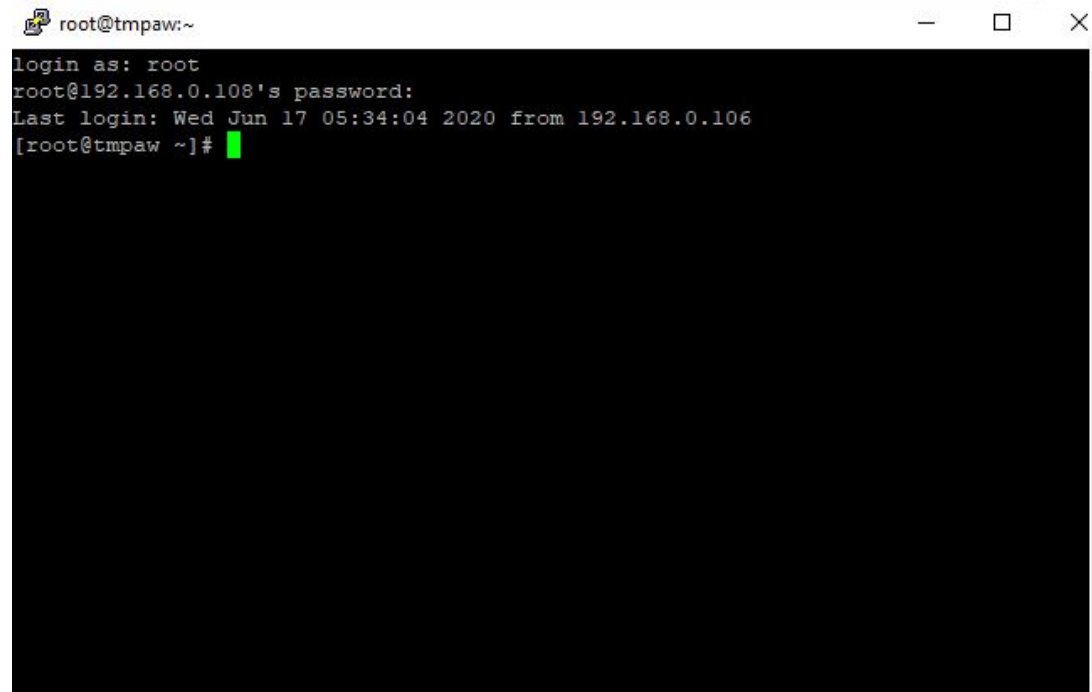
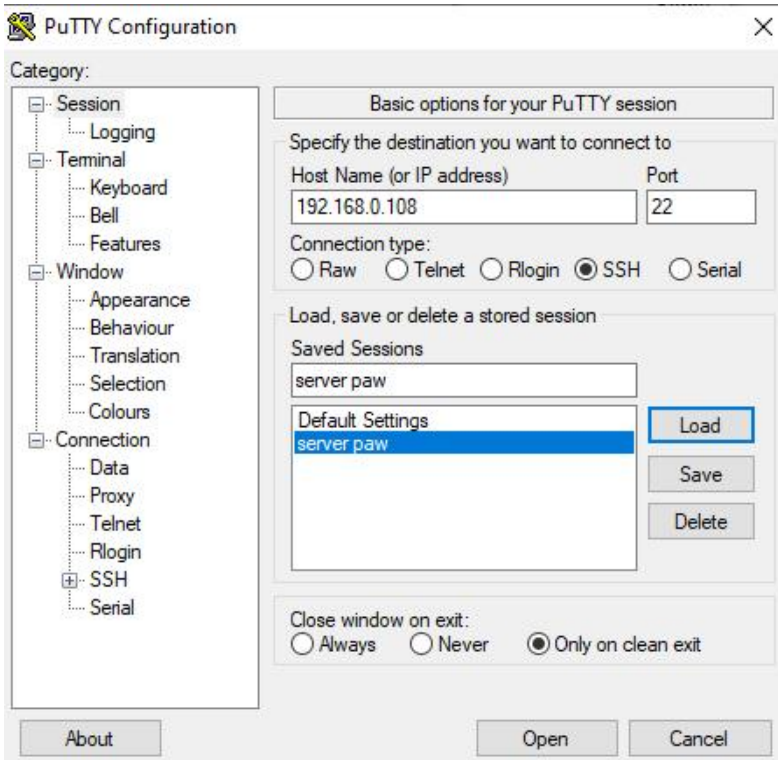
tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.108 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::250:56ff:fe3e:1693 prefixlen 64 scopeid 0x20<link>
    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 ~]# _
```

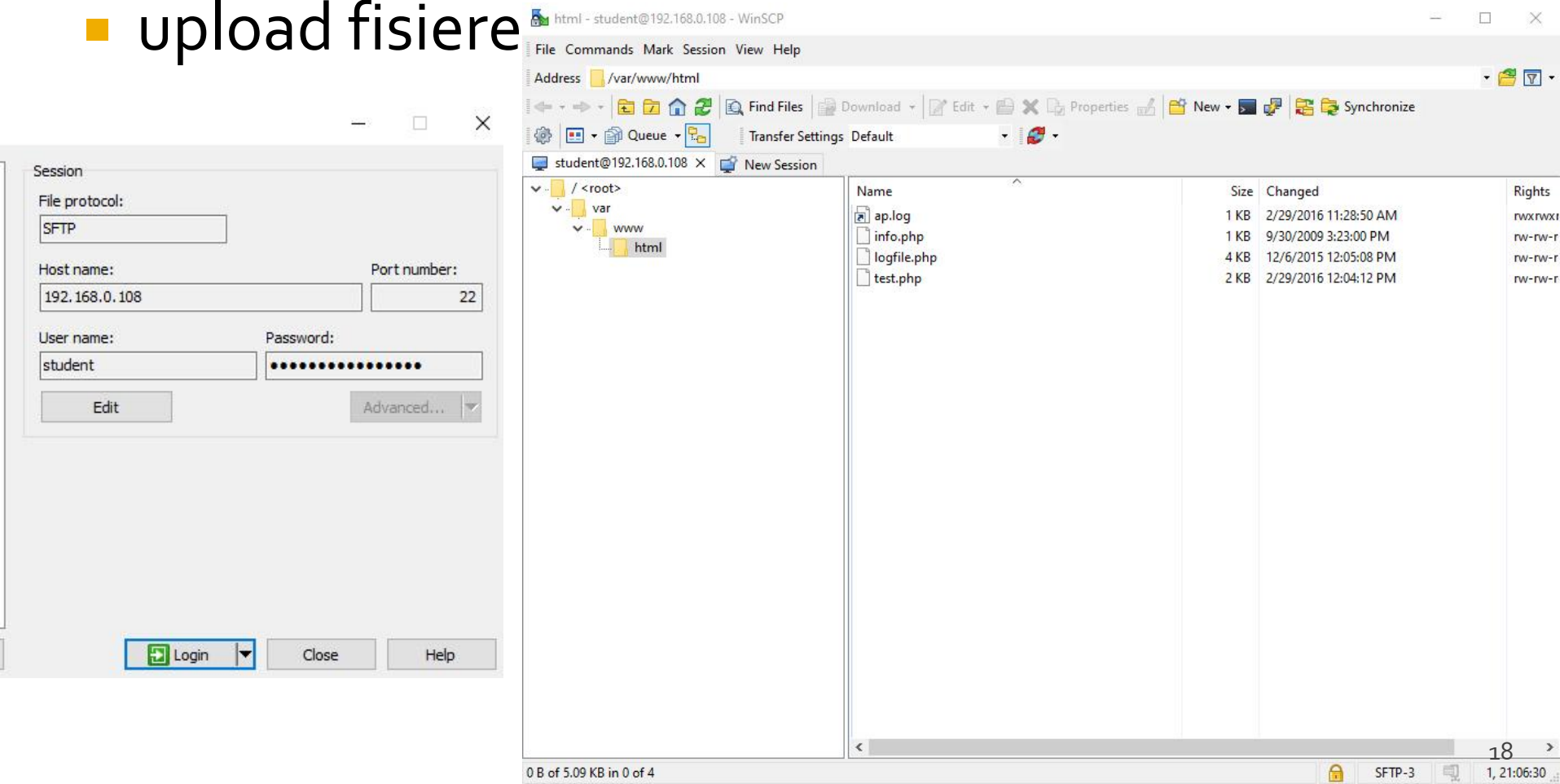
Putty

- putty.exe
- evitare captura mouse, copy/paste etc.

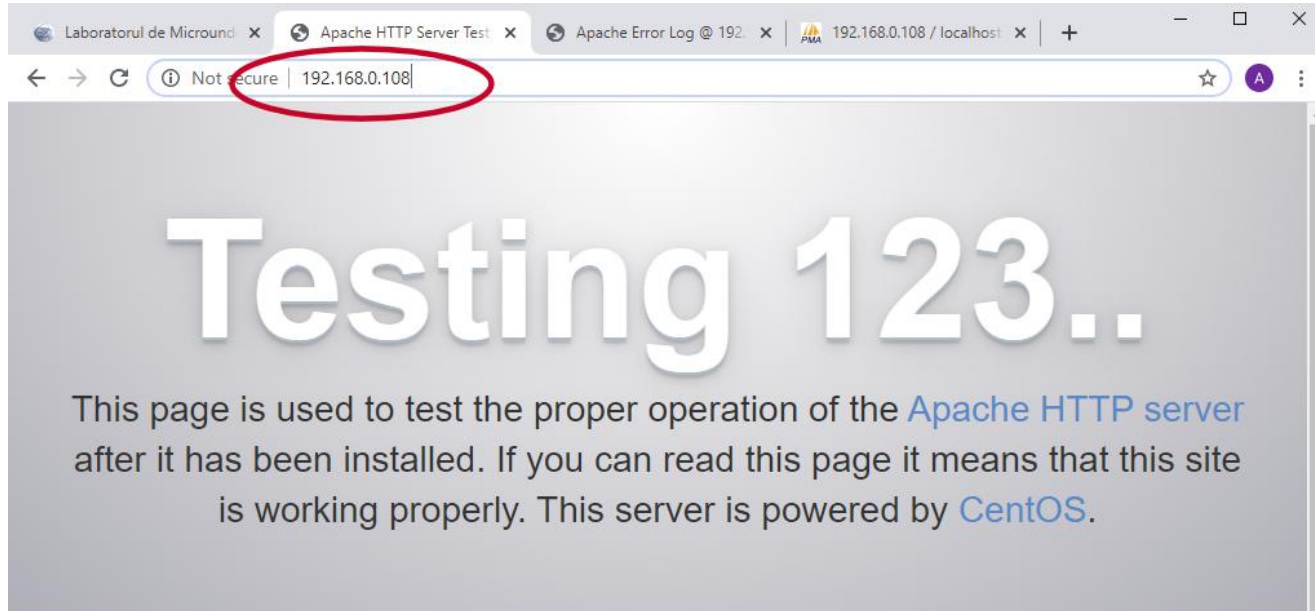


WinSCP

- client FTP
- upload fisiere



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 shows a web browser window with the phpMyAdmin interface. The address bar shows the URL `192.168.0.108/phpmyadmin/`, which is circled in red. The interface includes a left sidebar with a tree view of databases (information_schema, mysql, performance_schema, tmpaw, world) and a main content area with several panels: General Settings, Appearance Settings, Database server, Web server, and phpMyAdmin. The General Settings panel shows the server connection collation as `utf8mb4_unicode_ci`. The Appearance Settings panel shows the language as English and the theme as pmahomme. The Database server panel shows the server as Localhost via UNIX socket, MariaDB version 5.5.44, and user root@localhost. The Web server panel shows 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. The phpMyAdmin panel shows version information 4.4.15.1 and links to documentation, wiki, official homepage, contribute, get support, and list of changes.

Browser tabs: Laboratorul de Microind..., Apache HTTP Server Test, Apache Error Log @ 192..., 192.168.0.108 / localhost

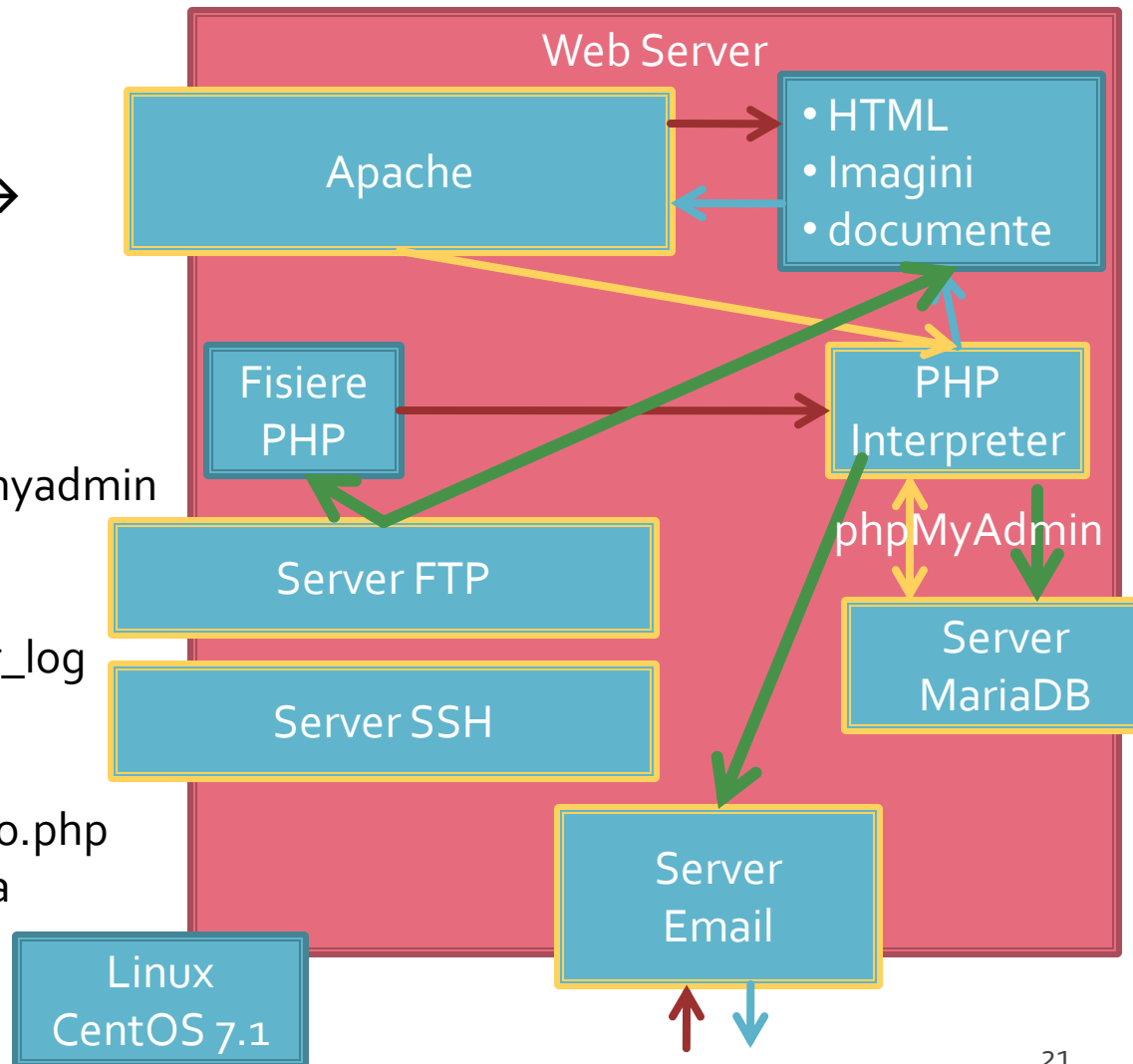
Address bar: 192.168.0.108/phpmyadmin/

phpMyAdmin interface:

- Recent | Favorites
- Left sidebar: New, information_schema, mysql, performance_schema, tmpaw, world
- 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

Utilizare LAMP

1. login → root:masterc
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterc (remote login)
4. [alte comenzi linux dorite]
5. FTP → Winscp → SFTP → student:masterc@192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterc
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. daca serviciul DHCP duce la oprirea Apache: service httpd restart



Tema bonus

- logfile.php
 - Afiseaza log Apache (erori php majore)
- **1p suplimentar** la proiect/examen
- Modificare logfile.php pentru a afisa toate erorile PHP
 - php.ini – activare erori
 - php.ini – locatie erori
 - logfile.php – afisare log PHP

Introdurre

Aplicatii

★ 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

Aplicatii

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

The website header includes the BCR logo and navigation links: Home, Contact, English, Contact center, Go, Cauta, Go.

The main navigation menu includes: 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 user profile section (Măria Domniei, Conturi curente, CLICK 24Banking, Logout) and a "Favorite" section with 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 table shows a single row with the status "Activ", type "Conturi curente", a masked account number, a masked available balance, and the currency "RON".

Below the table, the "Detalii" (Details) section includes fields for Sablon personal, Sablon furnizor, and IBAN beneficiar, each with a dropdown menu for selection. A "Verificare IBAN" button is also present.

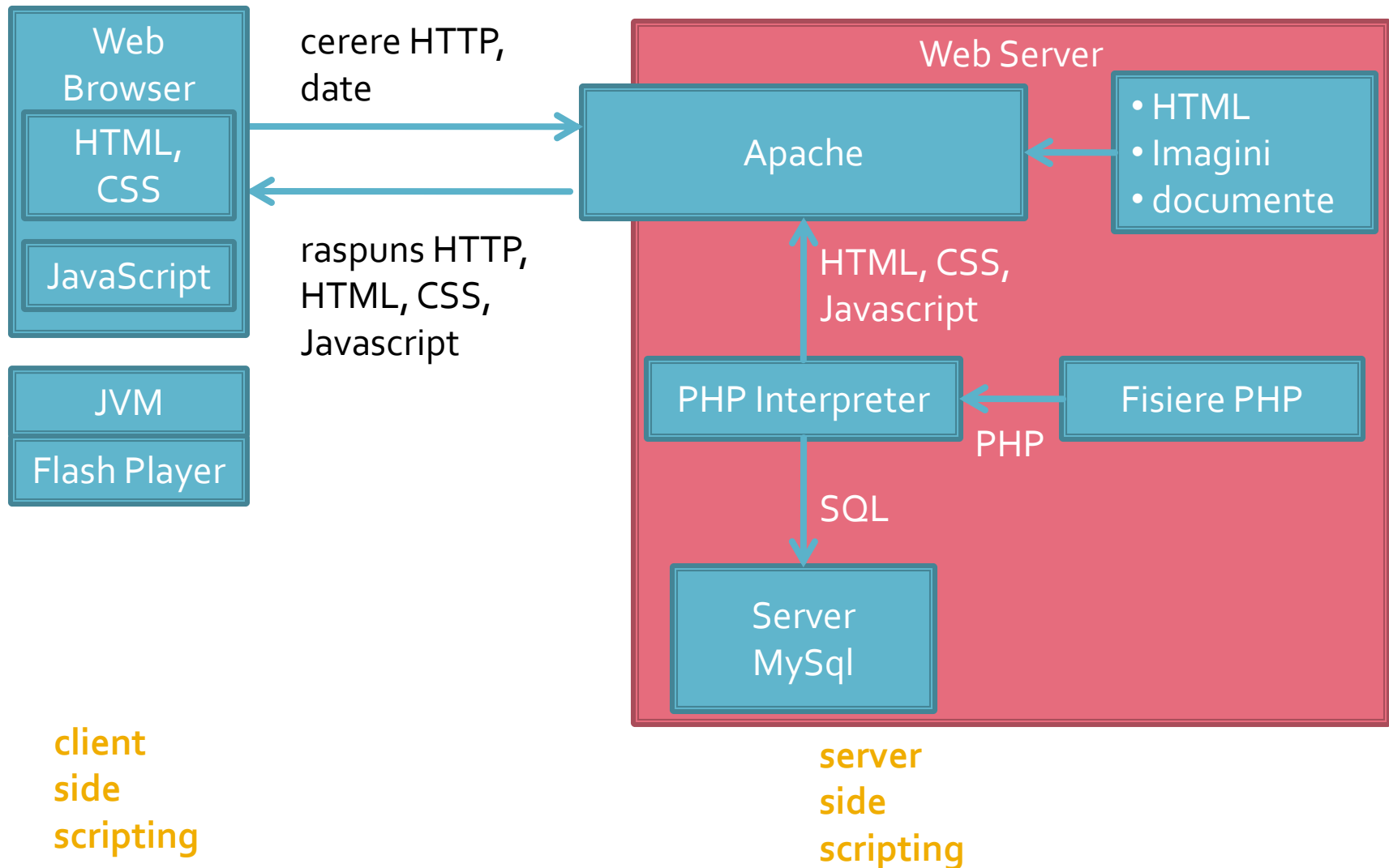
A "Nota" (Note) section states: "Pentru a ordona o plata, va rugam fie sa introduceti IBAN beneficiar, fie sa selectati un sablon personal sau pentru furnizori. Atentie : Transferurile se pot efectua doar catre conturi deschise in aceeași valuta!"

The bottom of the page features several promotional and informational tiles:

- Tarife si comisioane (Fees and commissions)
- Intrebari si Raspunsuri (Questions and Answers)
- 24 Banking
- Contact center

The footer contains 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



Necesitate

```
<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>
```

Necesitate

```
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`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
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555 $row = mysql_fetch_assoc($result);
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 $row['Numar'];?>&nbsp;</td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data']));?>&nbsp;</td>
579 <td><?php echo $row['Pui'];?>&nbsp;</td>
580 <td><?php echo $row['Greutate'];?>&nbsp;</td>
581 <td><?php echo $row['Pui_Morti'];?>&nbsp;</td>
582 <td><?php echo $row['Greutate_Morti'];?>&nbsp;</td>
583 <td><?php echo $row['Ferma'];?>&nbsp;</td>
584 <td><?php echo $row['Documente'];?>&nbsp;</td>
```

HTML

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

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Win

logfile.php lista_lot.php

```
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```

HTML + PHP

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```

HTML + PHP + SQL

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

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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`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
555 $row = mysql_fetch_assoc($result);
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 $row['Numar'];?>&nbsp;</td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data']));?>&nbsp;</td>
579 <td><?php echo $row['Pui'];?>&nbsp;</td>
580 <td><?php echo $row['Greutate'];?>&nbsp;</td>
581 <td><?php echo $row['Pui_Morti'];?>&nbsp;</td>
582 <td><?php echo $row['Greutate_Morti'];?>&nbsp;</td>
583 <td><?php echo $row['Ferma'];?>&nbsp;</td>
584 <td><?php echo $row['Documente'];?>&nbsp;</td>
```

```
<?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);
}
```

HTML

- Oferă structura logică a documentului
- Necesare
 - rezultatul final al programării pentru o aplicație web este cod HTML (structura HTML eventual manipulată prin “client side scripting”/Javascript)
- Curs 1 –Recapitulare HTML

HTML Concepte 3

x
`<x> Continut afectat de x</x>`

Legal in
XHTML/HTML

x si atrib si val
`<x atrib="val"> Continut afectat de x si atrib si val </x>`

Legal in
XHTML/HTML

x
`<x> Continut <y> Continut afectat de x si y</y> afectat de x</x>`

Legal in
XHTML/HTML

x
y
`<x> C. afectat de x <y> C. afectat de x si y </x> C. afectat de y</y>`
y

Legal **numai** in
HTML
nerecomandat

Document HTML minimal

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

```
<html>
```

```
<head>
```

```
....
```

```
</head>
```

```
<body>
```

```
....
```

```
</body>
```

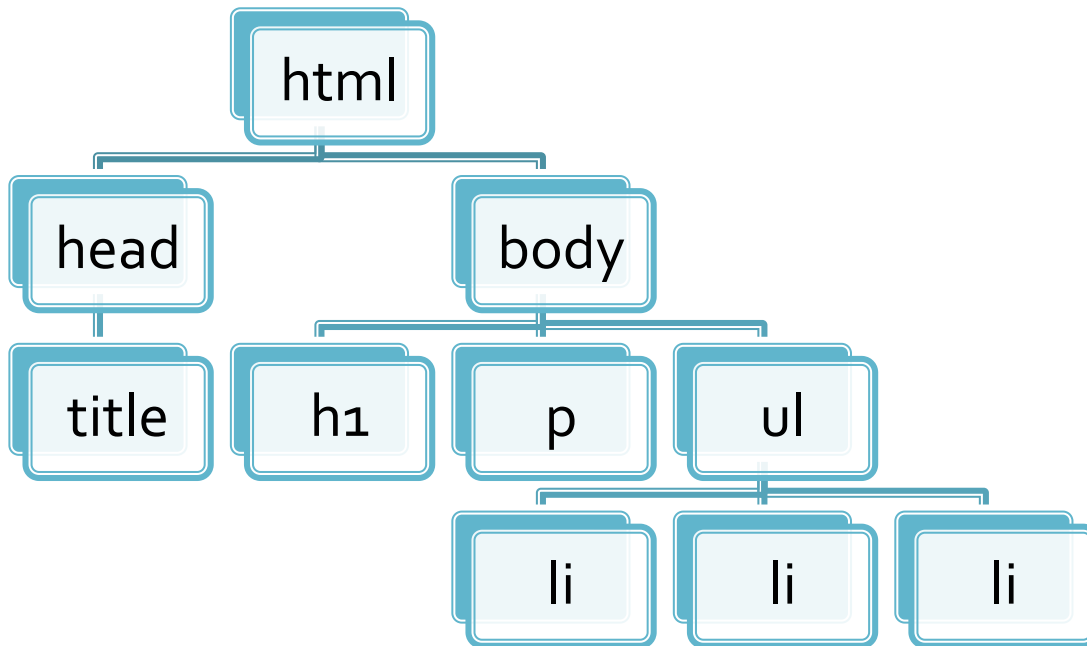
```
</html>
```



The diagram illustrates the nesting of HTML tags using three colored arcs on the right side of the code. A large dark green arc connects the opening `<html>` tag to the closing `</html>` tag. A yellow arc connects the opening `<head>` tag to the closing `</head>` tag. A red arc connects the opening `<body>` tag to the closing `</body>` tag. The arcs are positioned to the right of the tag names, visually demonstrating how the elements are nested within each other.

DOM

- DOM – Document Object Model: structura de tip graf



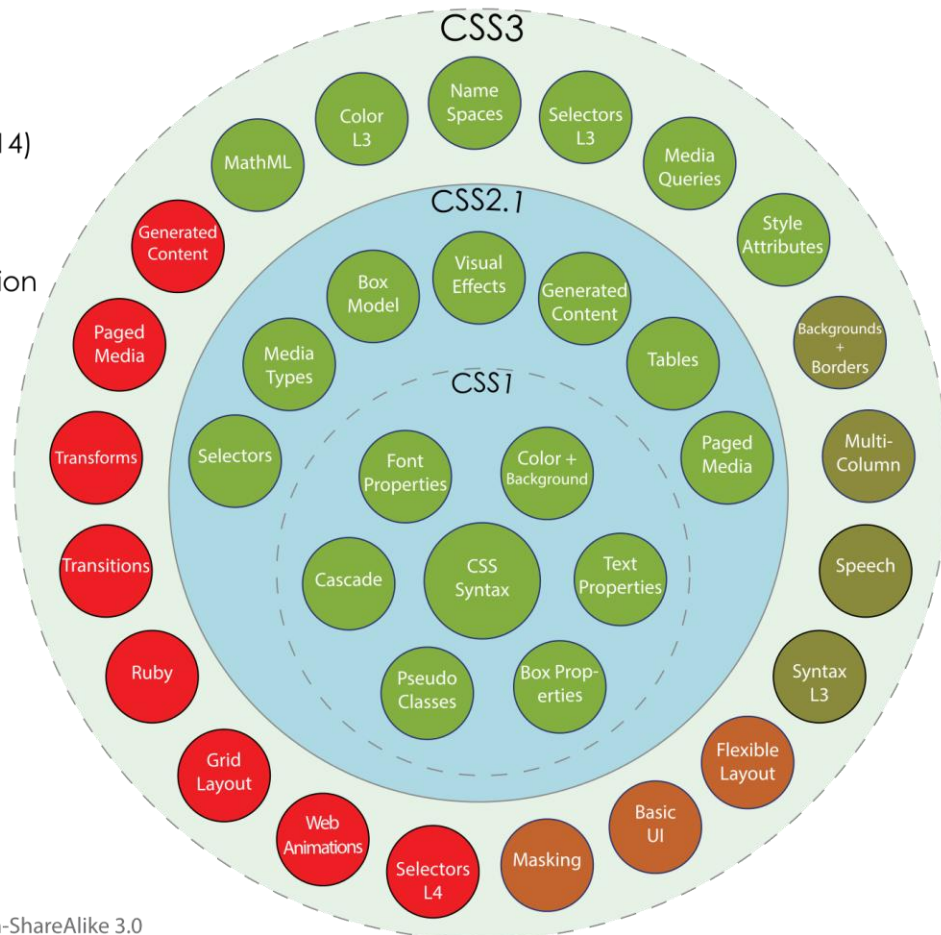
```
<html>
  <title>pagina mea</title>
  <body>
    <h1>Compozitori:</h1>
    <p>
      <ul>
        <li> elvis costello
        <li> johannes brahms
        <li> georges brassens
      </ul>
    </p>
  </body>
</html>
```

CSS

■ Ofera forma documentului CSS3

Taxonomy & Status (October 2014)

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



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 concepte

- Trei modalitati de a specifica stiluri
 - stiluri externe (External style sheet)
 - stiluri interne (Internal style sheet)
 - stiluri inserate (Inline style)
- Trei entitati care impun stiluri:
 - dispozitivul de afisare (browser)
 - autorul documentului
 - cititorul documentului

CSS Concepte

- Specificatiile CSS sunt de forma:
 - Selector { "regula CSS"; ["regula CSS";] }
- Reguli CSS de forma:
 - atribut:valoare;
- Comentarii
 - Similar cu C/C++ , PHP, etc.
 - Cuprinse intre `"/*"` si `"*/"`

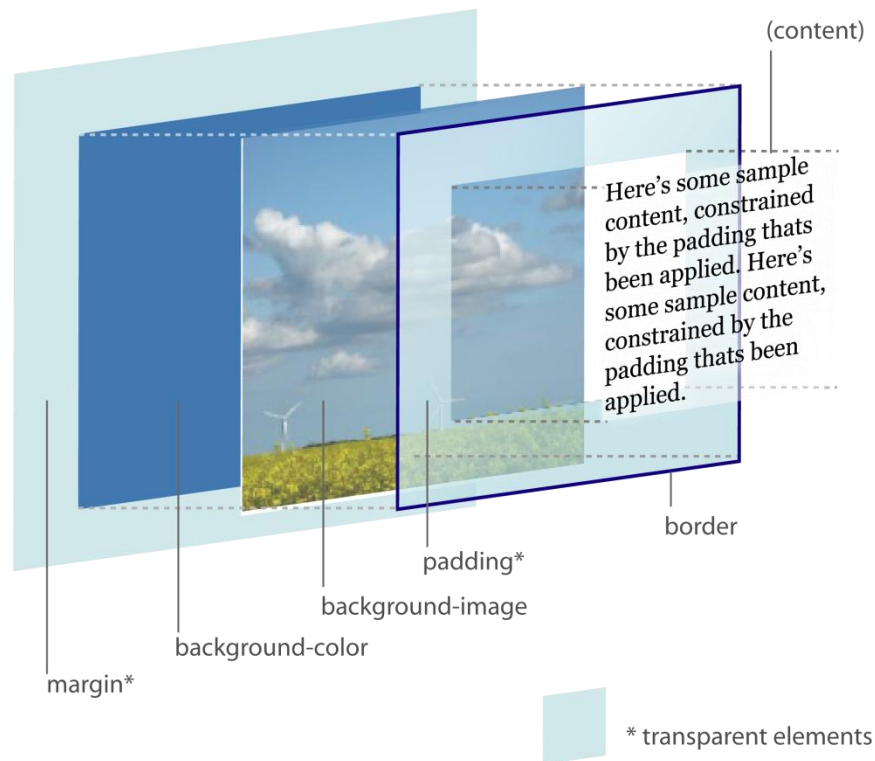
Selector CSS

- Selector HTML
 - conceput pentru a modifica modalitatea de afisare standard a etichetelor HTML
- Selector clasa
 - conceput pentru a lucra cu atributul HTML `class="..."`
 - util pentru aplicare uniforma a formei mai multor elemente din document
- Selector identificator
 - conceput pentru a lucra cu atributul HTML `id="..."`
 - util pentru aplicarea unei forme specifice unui anume element din document

CSS Box Model

- Orientat in jurul conceptului de “cutie” – Box model

THE CSS BOX MODEL HIERARCHY



CSS Zen Garden

- <http://www.csszengarden.com/>
- un fisier html comun
- schimbarea formei permisa numai prin intermediul CSS

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 the eye. 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

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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 Reifsnnyder

☐ [Orchid Beauty](#)
by Kevin Addison

☐ [Oceanscape](#)
by Justin Gray

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

☐ [Sakura](#)
by Tatsuya Uchida

☐ [Kyoto Forest](#)
by John Polowski

☐ [A Walk in the
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RESOURCES:

CSS Zen Garden

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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

Aplicatie Web

- presupune prelucrarea unor date si oferirea unui document personalizat (rezultat al datelor respective)
- datele pot fi obtinute:
 - de la utilizator
 - o sursa externa (baze de date)
 - **combinatie** utilizator/baze de date

Forme in HTML

- necesare pentru ca utilizatorul sa poate trimite date server-ului
- `<form>...</form>`
- Attribute specifice:
 - action: adresa documentului care preia datele
 - `<form action="<?php echo $_SERVER['PHP_SELF'];?>">`
 - `<form action="actiuni/fisier2.html">`
 - method: modalitatea de transmitere a datelor: post sau get
 - `<form method="post" action= ... >`

Metode de transmitere

- **post** datele sunt transmise in bloc
- **get** datele sunt atasate adresei documentului de procesare : <results.php?prob=81&an=2009>
- **get** trebuie folosit numai cand datele sunt “idempotente”,
 - nu cauzeaza efecte colaterale
 - nu modifica starea server-ului (baze date, etc)
- se poate simula realizarea unei forme (**get**) prin scrierea corespunzatoare a link-urilor

Elemente de interactiune cu utilizatorul – <form>

- in interiorul etichetei <form>...</form>
 - input
 - select/option
 - textarea
 - button
- **toate** elementele vor avea un nume
 - atribut: name=""
 - numele va fi intalnit in uri-ul generat prin get, sau in numele variabilei trimisa prin post
- trimiterea datelor se face prin intermediul unui buton cu tipul type="submit"

INPUT

- `<input .../>`
- Attribute:
 - type: text | password | checkbox | radio | submit | reset | file | hidden | image | button
 - name: numele variabilei
 - value: valoarea trimisa server-ului la selectie (valoarea initiala in anumite cazuri)
 - checked/src/size/maxlength in functie de tip

Example

```
<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



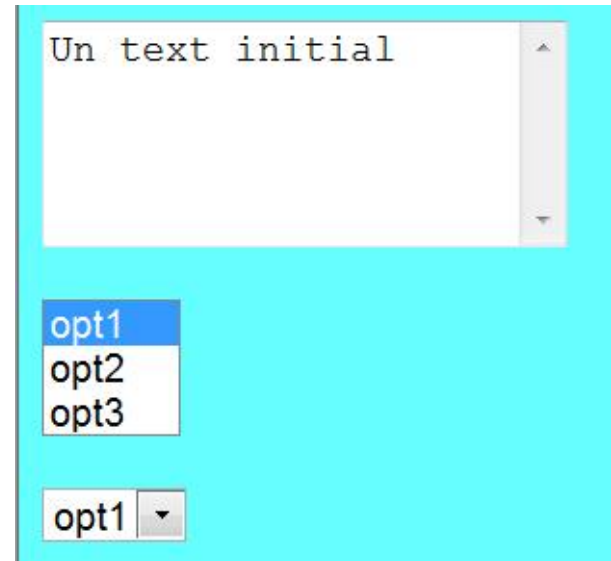
but2

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>
```

- introdus pentru a oferi posibilitatea introducerii de continut mai complex (text formatat, imagini) in interiorul butoanelor de pe forma

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	1
Caiete	2
Penare	3

Contact

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