

week 9, continued

HTML





CSS3
STYLING



superglobals

\$_COOKIE

\$_GET

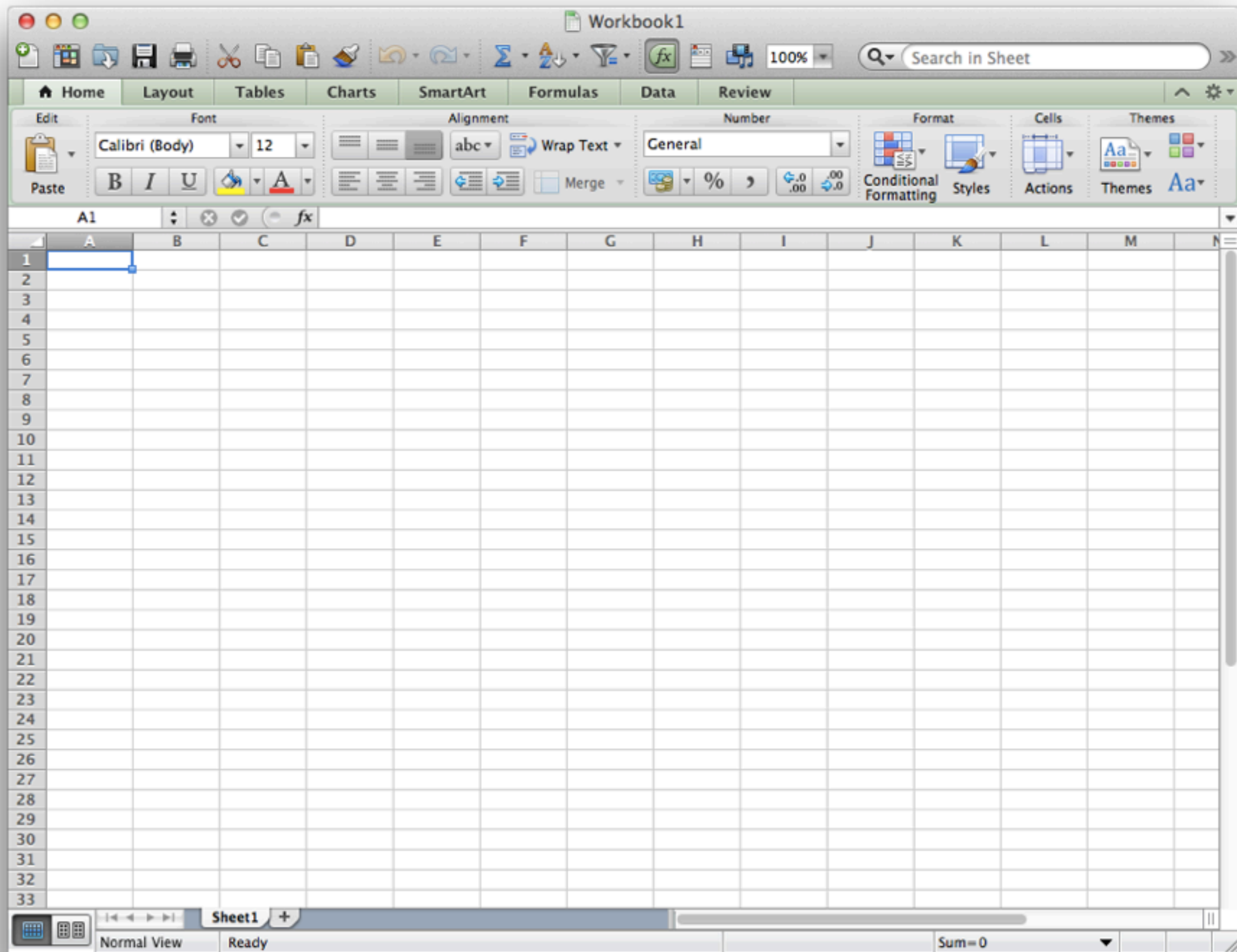
\$_POST

\$_SERVER

\$_SESSION

...

SQL



SQL

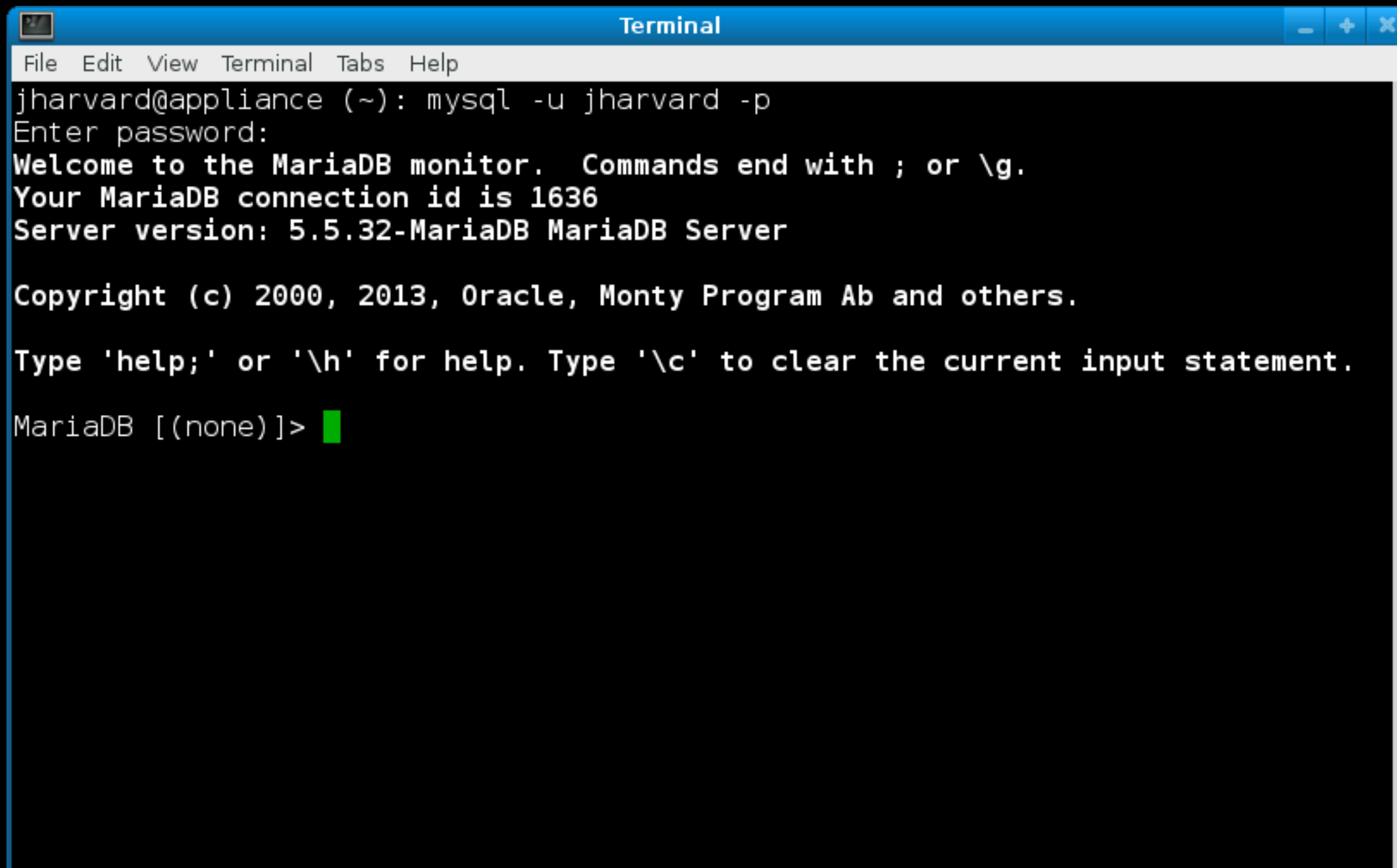
DELETE

INSERT

UPDATE

SELECT

...



```
Terminal
File Edit View Terminal Tabs Help
jharvard@appliance (~): mysql -u jharvard -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 1636
Server version: 5.5.32-MariaDB MariaDB Server

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> 
```

localhost / localhost | x

localhost/phpMyAdmin/

phpMyAdmin

(Recent tables) ...

- pset7

Server: localhost

Databases SQL Status Users Export Import More

General Settings

[Change password](#)

Server connection collation : utf8_unicode_ci

Appearance Settings

Language : English

Theme: pmahomme

- Font size: 82%

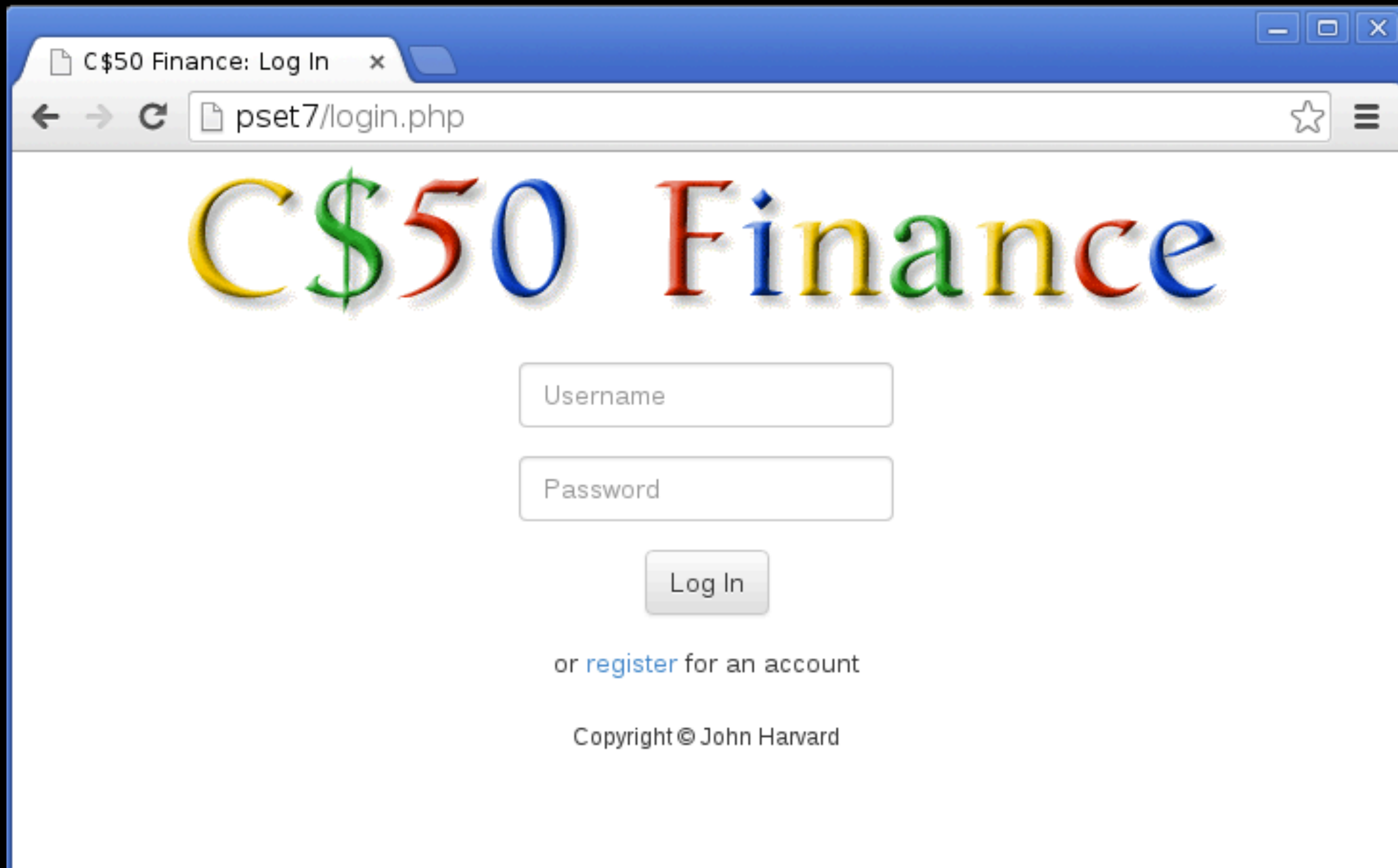
[More settings](#)

Database server

- Server: Localhost via UNIX socket
- Software: MariaDB
- Software version: 5.5.32-MariaDB - MariaDB Server
- Protocol version: 10
- User: jharvard@localhost
- Server charset: UTF-8 Unicode (utf8)

Web server

- Apache/2.4.6 (Fedora)
- Database client version: libmysql - mysqlnd 5.0.11-dev - 20120503 - \$Id: 40933630edef551dfaca71298a83fad8\$
- PHP extension: mysqli
- [Show PHP information](#)



id	username	hash
1	caesar	\$1\$50\$GHABNWBNE/o4VL7QjmQ6x0
2	hirschhorn	\$1\$50\$IJS9HiGK6sphej8c4bnbX.
3	jharvard	\$1\$50\$RX3wnAMNrGlbgbR YrxM1/
4	malan	\$1\$HA\$azTGIMVImPi9W9Y12cYSj/
5	milo	\$1\$HA\$6DHumQaK4GhpX8QE23C8V1
6	skroob	\$1\$50\$euBi4ugiJmbplbvTTfmfl.
7	zamyla	\$1\$50\$uwfqB45ANW.9.6qaQ.DcF.
8	zawila	\$1\$20\$uWdpB42VIMW.a.edsg.DcF.
9	zawila	\$1\$20\$uWdpB42VIMW.a.edsg.DcF.

types

- CHAR
- VARCHAR
- INT
- BIGINT
- DECIMAL
- DATETIME
- ...

indexes

- PRIMARY
- INDEX
- UNIQUE
- FULLTEXT

storage engines

- InnoDB
- MyISAM
- Archive
- Memory
- ...



atomicity

```
INSERT INTO table (id, symbol, shares) VALUES(7, 'DVN.V', 10)  
ON DUPLICATE KEY UPDATE shares = shares + VALUES(shares)
```

transactions

```
START TRANSACTION;  
UPDATE account SET balance = balance - 1000 WHERE number = 2;  
UPDATE account SET balance = balance + 1000 WHERE number = 1;  
COMMIT;
```

JavaScript

<https://developer.mozilla.org/en-US/docs/JavaScript/Guide>

functions

`main`

conditions

```
if (condition)
{
    // do this
}
else if (condition)
{
    // do that
}
else
{
    // do this other thing
}
```

Boolean expressions

```
if (condition || condition)
{
    // do this
}
```

Boolean expressions

```
if (condition && condition)
{
    // do this
}
```

switches

```
switch (expression)
{
    case i:
        // do this
        break;

    case j:
        // do that
        break;

    default:
        // do this other thing
        break;
}
```


loops

```
for (initializations; condition; updates)
{
    // do this again and again
}
```

loops

```
while (condition)
{
    // do this again and again
}
```

loops

```
do  
{  
    // do this again and again  
}  
while (condition);
```

loops

```
for (var i in array)
{
    // do this with array[i]
}
```

arrays

```
var numbers = [4, 8, 15, 16, 23, 42];
```

variables

```
var s = "hello, world";
```

objects

```
var quote = {symbol: "FB", price: 49.26};
```

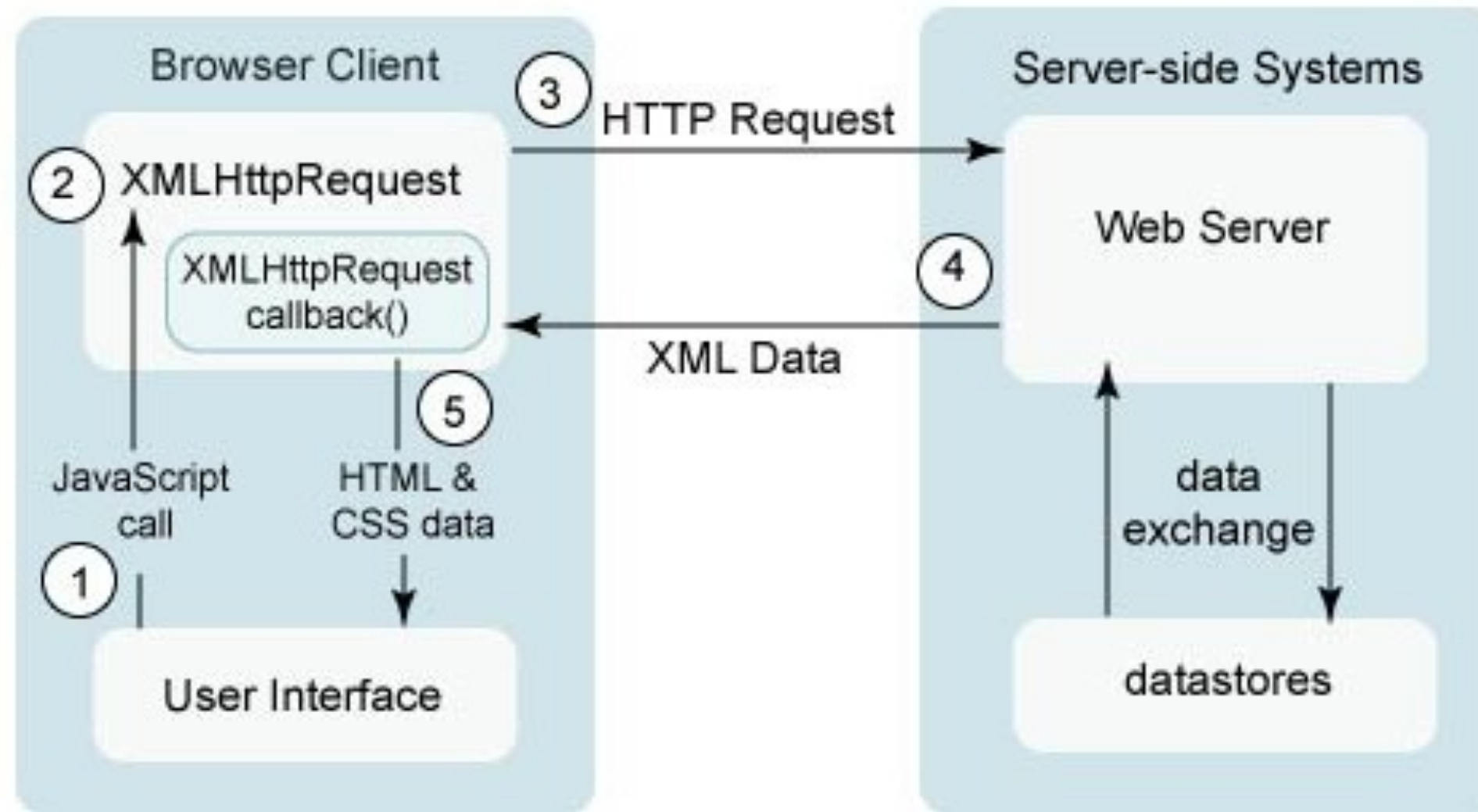
objects

```
var student =  
{  
  id: 1,  
  house: "Winthrop House",  
  name: "Zamyla Chan"  
};
```


JSON

```
var staff = [  
  {  
    "id": 1,  
    "house": "Eliot House",  
    "name": "Joseph Ong"  
  },  
  {  
    "id": 2,  
    "house": "Winthrop House",  
    "name": "R.J. Aquino"  
  },  
  {  
    "id": 3,  
    "house": "Mather House",  
    "name": "Lucas Freitas"  
  }  
];
```

ajax



event handlers

onblur
onchange
onclick
onfocus
onkeydown
onkeyup
onload
onmousedown
onmouseup
onmouseout
onmouseover
onmouseup
onresize
onselect
onsubmit
...

to be continued...