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Architecture

Using PHP in a Web Application

Internet Applications, ID1354

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 HTTP is stateless. Still there are many reasons why it is useful for a server to identify the client.

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- HTTP is stateless. Still there are many reasons why it is useful for a server to identify the client.
 - Authentication (login)
 - Settings
 - Advertising
 - Shopping basket

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- HTTP is stateless. Still there are many reasons why it is useful for a server to identify the client.
 - Authentication (login)
 - Settings
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- HTTP is stateless. Still there are many reasons why it is useful for a server to identify the client.
 - Authentication (login)
 - Settings
 - Advertising
 - Shopping basket
- This is solved with cookies.
- A cookie is a name/value pair passed between browser and server in the HTTP header.

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To Identify a List Item

- HTTP is stateless. Still there are many reasons why it is useful for a server to identify the client.
 - Authentication (login)
 - Settings
 - Advertising
 - Shopping basket
- This is solved with cookies.
- A cookie is a name/value pair passed between browser and server in the HTTP header.
- A cookie is only passed to the server from which it originated.

PHP

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Cookies are set with the setcookie function. Since cookies are sent as HTTP headers, this function must be called before any output is generated.

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To Identify a List Item

Cookies are set with the setcookie function. Since cookies are sent as HTTP headers, this function must be called before any output is generated.

setcookie (string \$name, string \$value, int \$expire = 0, string \$path, string \$domain, bool \$secure = false, bool \$httponly = false)

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To Identify a List Item

Cookies are set with the setcookie function. Since cookies are sent as HTTP headers, this function must be called before any output is generated.

setcookie (string \$name, string \$value, int \$expire = 0, string \$path, string \$domain, bool \$secure = false, bool \$httponly = false)

name and value is the cookie's name/value pair.

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To Identify a List Item

Cookies are set with the setcookie function. Since cookies are sent as HTTP headers, this function must be called before any output is generated.

setcookie (string \$name, string \$value, int \$expire = 0, string \$path, string \$domain, bool \$secure = false, bool \$httponly = false)

- name and value is the cookie's name/value pair.
- expire tells the instant in time when the cookie expires. time() returns the current time, so time()+60*60*24*30 sets the cookie to expire in 30 days.

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To Retrieve a Cookie

Cookies are retrieved using the \$_COOKIE superglobal, which is an array containing all cookies included in the current request.

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To Retrieve a Cookie

- Cookies are retrieved using the \$_COOKIE superglobal, which is an array containing all cookies included in the current request.
- The following statement retrieves all cookies with the name userid.

```
$_COOKIE["userid"];
```

. . . .

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To Retrieve a Cookie

- Cookies are retrieved using the \$_COOKIE superglobal, which is an array containing all cookies included in the current request.
- The following statement retrieves all cookies with the name userid.

\$_COOKIE["userid"];

The isset function can be used to check if a cookie is set.

```
if (!isset($_COOKIE["userid"])) {
echo '<a href="login.php">log in</a>';
```

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 Cookies set by a server with a domain name different from the server's.

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- Cookies set by a server with a domain name different from the server's.
- If many servers set the same third party cookie, the third party server can track the user's surfing.

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- Cookies set by a server with a domain name different from the server's.
- If many servers set the same third party cookie, the third party server can track the user's surfing.
- Typically used for marketing.

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To Identify a List Item

- Cookies set by a server with a domain name different from the server's.
- If many servers set the same third party cookie, the third party server can track the user's surfing.
- Typically used for marketing.
- There are many other ways, beside cookies, to identify a user for tracking purposes.
 - Flash, Silverlight and HTML5 storages
 - HTML5 canvas painting
 - content of caches and cach tags like Last-Modified or ETag
 - social networks
 - fingerprinting mechanisms like supported ciphersuites, DNS content, HTTP headers, plugins and fonts, clock drift, CPU and GPU benchmarks, network level information, user behavior

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The EU Cookie Law

A person shall not store or gain access to information stored, in the terminal equipment of a subscriber or user unless the requirements of paragraph (2) are met.

(2) The requirements are that the subscriber or user of that terminal equipment

- is provided with clear and comprehensive information about the purposes of the storage of, or access to, that information; and
- 2. has given his or her consent.

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The cookie is for the sole purpose of carrying out the transmission of a communication over an electronic communications network.

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To Identify a List Iten

- The cookie is for the sole purpose of carrying out the transmission of a communication over an electronic communications network.
 - Not relevant here.

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To Identify a List Iten

- The cookie is for the sole purpose of carrying out the transmission of a communication over an electronic communications network.
 - Not relevant here.
- The cookie is strictly necessary for the provision of an information society service requested by the subscriber or user.

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To Identify a List Item

- The cookie is for the sole purpose of carrying out the transmission of a communication over an electronic communications network.
 - Not relevant here.
- The cookie is strictly necessary for the provision of an information society service requested by the subscriber or user.
 - Likely applies to authentication and shopping baskets.

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 Do Not Track, DNT, is a W3C specification enabling the user to express preferences regarding tracking.

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To Identify a List Item

- Do Not Track, DNT, is a W3C specification enabling the user to express preferences regarding tracking.
- Defines a HTTP header, and how to handle it on the server.

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To Identify a List Item

- Do Not Track, DNT, is a W3C specification enabling the user to express preferences regarding tracking.
- Defines a HTTP header, and how to handle it on the server.
- It is not mandatory in any way to obey the users preferences.

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To Identify a List Item

- Do Not Track, DNT, is a W3C specification enabling the user to express preferences regarding tracking.
- Defines a HTTP header, and how to handle it on the server.
- It is not mandatory in any way to obey the users preferences.
- Must be implemented by server developer.

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A session is the time span during which a particular browser interacts with a particular server.

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To Identify a List Item

- A session is the time span during which a particular browser interacts with a particular server.
- For session tracking, PHP creates and maintains a session tracking id (Unique ID, UID), for each visitor and stores variables based on this UID.

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To Identify a List Item

- A session is the time span during which a particular browser interacts with a particular server.
- For session tracking, PHP creates and maintains a session tracking id (Unique ID, UID), for each visitor and stores variables based on this UID.
- The UID is stored on the client, for example in a cookie or as part of URLs, and included in each request to the server.

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To Identify a List Item

- A session is the time span during which a particular browser interacts with a particular server.
- For session tracking, PHP creates and maintains a session tracking id (Unique ID, UID), for each visitor and stores variables based on this UID.
- The UID is stored on the client, for example in a cookie or as part of URLs, and included in each request to the server.
- The only way to terminate a session is to manually unset all data related to the session in the server-side code.

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To Identify a List Item

- A session is the time span during which a particular browser interacts with a particular server.
- For session tracking, PHP creates and maintains a session tracking id (Unique ID, UID), for each visitor and stores variables based on this UID.
- The UID is stored on the client, for example in a cookie or as part of URLs, and included in each request to the server.
- The only way to terminate a session is to manually unset all data related to the session in the server-side code.
- If a session is not explicitly terminated, it times out after an interval specified in server configuration, and session data is removed.

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How is session data saved?

 We must understand that the lifetime of a PHP variable is limited to the execution of the program where it is created.

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To Identify a List Item
How is session data saved?

- We must understand that the lifetime of a PHP variable is limited to the execution of the program where it is created.
- This means that a variable created in one request will not exist in later requests.

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To Identify a List Item

How is session data saved?

- We must understand that the lifetime of a PHP variable is limited to the execution of the program where it is created.
- This means that a variable created in one request will not exist in later requests.
- Therefore, the content of \$_SESSION must be stored externally to the PHP interpreter.

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To Identify a List Item

How is session data saved?

- We must understand that the lifetime of a PHP variable is limited to the execution of the program where it is created.
- This means that a variable created in one request will not exist in later requests.
- Therefore, the content of \$_SESSION must be stored externally to the PHP interpreter.
- This storage is called a session save handler, and is configurable. Normally, and also normally by default, a file is used.

PHF

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Session Management

A session is started with the session_start function.

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Session Management

- A session is started with the session_start function.
- To associate data with a session, use the \$_SESSION superglobal.

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Session Management

- A session is started with the session_start function.
- To associate data with a session, use the \$_SESSION superglobal.
- To delete all data from the session, use the session_destroy function.

PHF

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To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user. Cookies

HTTP Sessions

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To Identify a List Item

- To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user.
- This is normally done using a cookie.

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To Identify a List Item

- To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user.
- This is normally done using a cookie.
 - After session_start is called, PHP will look for a cookie named PHPSESSID.

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To Identify a List Item

- To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user.
- ► This is normally done using a cookie.
 - After session_start is called, PHP will look for a cookie named PHPSESSID.
 - If it is present, its value will be used as the id of the current session.

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To Identify a List Item

- To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user.
- ► This is normally done using a cookie.
 - After session_start is called, PHP will look for a cookie named PHPSESSID.
 - If it is present, its value will be used as the id of the current session.
 - If it is not present, it will be created and its value will be set to the id of the current session.

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To Identify a List Item

- To fill the \$_SESSION superglobal with the current user's data, the session save handler must be able to identify the user.
- This is normally done using a cookie.
 - After session_start is called, PHP will look for a cookie named PHPSESSID.
 - If it is present, its value will be used as the id of the current session.
 - If it is not present, it will be created and its value will be set to the id of the current session.
- We must understand that the PHPSESSID cookie is the link between a browser and that browser's session data on the server.

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Session Example

At session start

```
const USER_KEY = 'user_key';
session_start();
//Assuming $user is an object with user data.
$ SESSION[USER KEY] = serialize($user);
```

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Session Example

At session start

```
const USER_KEY = 'user_key';
session_start();
//Assuming $user is an object with user data.
$ SESSION[USER KEY] = serialize($user);
```

During the session

```
if (isset($_SESSION[USER_KEY])) {
    $my_data = unserialize($_SESSION[USER_KEY]);
}
```

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Session Example

```
At session start
```

```
const USER_KEY = 'user_key';
session_start();
//Assuming $user is an object with user data.
$ SESSION[USER KEY] = serialize($user);
```

During the session

```
if (isset($_SESSION[USER_KEY])) {
    $my_data = unserialize($_SESSION[USER_KEY]);
}
```

At session end.

```
session_destroy();
```

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HTTP Parameters

The \$_GET and \$_POST superglobals are used to retrieve HTTP parameters, for

example user input in a form.

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HTTP Parameters

- The \$_GET and \$_POST superglobals are used to retrieve HTTP parameters, for example user input in a form.
- \$_GET is an array with all parameters in a HTTP GET request, \$_POST is a similar array for a POST request.

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HTTP Parameter Example

The following code retrieves the value of the **address** parameter, which might originate from an HTML form.

//The text field where the user types the address
//must have the attribute name='address'

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To Identify a List Item

 As opposed to other server-side technologies, PHP does not have something like a \$_SESSION superglobal that is shared between different users. Cookies

HTTP Sessions

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To Identify a List Item

- As opposed to other server-side technologies, PHP does not have something like a \$_SESSION superglobal that is shared between different users.
- If data is to be shared between different users, such a mechanism must be constructed.

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To Identify a List Item

- As opposed to other server-side technologies, PHP does not have something like a \$_SESSION superglobal that is shared between different users.
- If data is to be shared between different users, such a mechanism must be constructed.
- A simple approach is to store data with application scope in a file.

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To Identify a List Item

- As opposed to other server-side technologies, PHP does not have something like a \$_SESSION superglobal that is shared between different users.
- If data is to be shared between different users, such a mechanism must be constructed.
- A simple approach is to store data with application scope in a file.
- Other alternatives are a database, an xml file or a plug-in such as memcached, http://www.memcached.org/, which stores key/value pairs in memory.

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File Handling

Simple file handling can be done with file_put_contents, which writes to a file, and file_get_contents, which reads. Cookies

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File Handling

Simple file handling can be done with file_put_contents, which writes to a file, and file_get_contents, which reads.

\file_get_contents(\$path_to_file));

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The Problem



There is a list with buttons (or links) for multiple items, like the chat application example to the left. ookioo

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The Problem



- There is a list with buttons (or links) for multiple items, like the chat application example to the left.
- How can we know which button the user clicked? In this chat example, how can we know which entry Stina wants to delete?

ookies

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To Identify a List Item

Make a form for each item in the list.

PHP

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To Identify a List Item

Make a form for each item in the list.

In this chat example, that means one form for each entry that has a Delete button.

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To Identify a List Item

Make a form for each item in the list.

- In this chat example, that means one form for each entry that has a Delete button.
- Each form includes a hidden field, which holds an identifier for the list item where the form is placed.

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To Identify a List Item

- Make a form for each item in the list.
 - In this chat example, that means one form for each entry that has a **Delete** button.
- Each form includes a hidden field, which holds an identifier for the list item where the form is placed.
 - In this example, we use the time when the entry was written as identifier.

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The Solution, Hidden Field

A hidden field is not displayed in the browser, but included when the form is submitted. PHP

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The Solution, Hidden Field

- A hidden field is not displayed in the browser, but included when the form is submitted.
 - The HTML for the chat conversation is listed below.



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The Solution, Server Code

On the server, we simply read the timestamp of the submitted form and delete the entry with that timestamp.



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The Solution, Server Code

- On the server, we simply read the timestamp of the submitted form and delete the entry with that timestamp.
- Code is not complete, just illustrates the principle. Complete code is found on course web page.

```
for ($i = count($entries) - 1; $i >= 0; $i--) {
    $entry = unserialize($entries[$i]);
    if ($entry->getTimestamp() ==
        $_GET[CHAT_TIMESTAMP_KEY]) {
            $entry->setDeleted(true);
            $entries[$i] = serialize($entry);
            break;
    }
}
```

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o Identify a List Item

We want the code to be easy to modify and easy to understand. To achieve this we need (among other things):



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To Identify a List Item

- We want the code to be easy to modify and easy to understand. To achieve this we need (among other things):
- High Cohesion, Each class, method, etc has well-defined knowledge and a well-defined task.

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To Identify a List Item

- We want the code to be easy to modify and easy to understand. To achieve this we need (among other things):
- High Cohesion, Each class, method, etc has well-defined knowledge and a well-defined task.
- Low coupling, Objects and subsystems do not depend on each other more than necessary.

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To Identify a List Item

- We want the code to be easy to modify and easy to understand. To achieve this we need (among other things):
- High Cohesion, Each class, method, etc has well-defined knowledge and a well-defined task.
- Low coupling, Objects and subsystems do not depend on each other more than necessary.
- Encapsulation, Objects and subsystems do not reveal their internals.

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To Identify a List Item

 Server-side architecture is covered extensively later in the course. Cookies

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- Server-side architecture is covered extensively later in the course.
- For now, we will use a very simple architecture.

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To Identify a List Iten

- Server-side architecture is covered extensively later in the course.
- For now, we will use a very simple architecture.
- This means using one PHP file for each possible HTTP request.



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- Server-side architecture is covered extensively later in the course.
- For now, we will use a very simple architecture.
- This means using one PHP file for each possible HTTP request.
- However, handling everything related to a particular HTTP request in a separate file has big disadvantages:

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To Identify a List Iten

- Server-side architecture is covered extensively later in the course.
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 - Low cohesion since that file will do everything.

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To Identify a List Iten

- Server-side architecture is covered extensively later in the course.
- For now, we will use a very simple architecture.
- This means using one PHP file for each possible HTTP request.
- However, handling everything related to a particular HTTP request in a separate file has big disadvantages:
 - Low cohesion since that file will do everything.
 - High coupling since code for view handling, database access, etc, will be placed in the same file.

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To Identify a List Iten

- Server-side architecture is covered extensively later in the course.
- For now, we will use a very simple architecture.
- This means using one PHP file for each possible HTTP request.
- However, handling everything related to a particular HTTP request in a separate file has big disadvantages:
 - Low cohesion since that file will do everything.
 - High coupling since code for view handling, database access, etc, will be placed in the same file.
 - Duplicated code since similar code will appear in several such files.

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Application Scope and File Handling

To Identify a List Iten

- 🔹 📹 Source Files
 - * 🗐 resources
 - CSS
 - 🔹 🖾 fragments
 - 📓 footer.php
 - header.php
 - 📠 nav.php
 - 🗟 title.php
 - 🖻 🖬 images
 - 🖹 .htaccess
 - Entry.php
 - 📓 chat.php
 - 📓 delete-entry.php
 - 📓 index.php
 - 📓 keys.php
 - 📓 login.php
 - 📓 store-entry.php

Fragments (header, footer, etc) are placed in a separate directory and included in each page.



PHP

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To Identify a List Iten

🔹 📹 Source Files

- * 🗐 resources
 - 🖻 📫 CSS
 - 🔹 🖾 fragments
 - 📠 footer.php
 - 📠 header.php
 - 📠 nav.php
 - 📠 title.php
 - 🖻 🖬 images
 - 🖹 .htaccess
 - 📓 Entry.php
 - 📠 chat.php
 - 📓 delete-entry.php
 - 📓 index.php
 - 📓 keys.php
 - 📓 login.php
 - 📓 store-entry.php

- Fragments (header, footer, etc) are placed in a separate directory and included in each page.
 - View (HTML code) is placed in separate files, **chat.php** and **index.php**.

TTP Parameters

Application Scope and File Handling

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 - View (HTML code) is placed in separate files, **chat**.**php** and **index**.**php**.
- Entry.php is a class that represents an entry in the conversation. It is included where needed in the HTTP request handling PHP files.

PHP

Cookies

HTTP Sessions

ITTP Parameters

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- Entry.php is a class that represents an entry in the conversation. It is included where needed in the HTTP request handling PHP files.
 - **keys.php** holds some constants that are used in multiple places. It is included where needed in the HTTP request handling PHP files.

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- The files handling HTTP requests are login.php, store-entry.php and delete-entry.php

PHP

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