

Files

Pemrograman Web IF UPNVJT

Overview

- Membuka dan menutup file
- Menulis di file
- Membaca data dari file
- Mengelola file dan direktori
- Upload file

Membuka dan menutup File

- **Input stream**: digunakan untuk membaca data dari sumber tertentu seperti file
- **Output stream**: digunakan untuk menulis data ke sumber tertentu

Membuka dan menutup File

- Langkah-langkah:
 - Membuka file stream dengan fungsi `fopen()`
 - Melakukan proses membaca atau menulis data
 - Menutup file stream dengan fungsi `fclose()`

Membuka dan menutup File

Syntax:

```
open_file = fopen("text file",  
"mode");
```

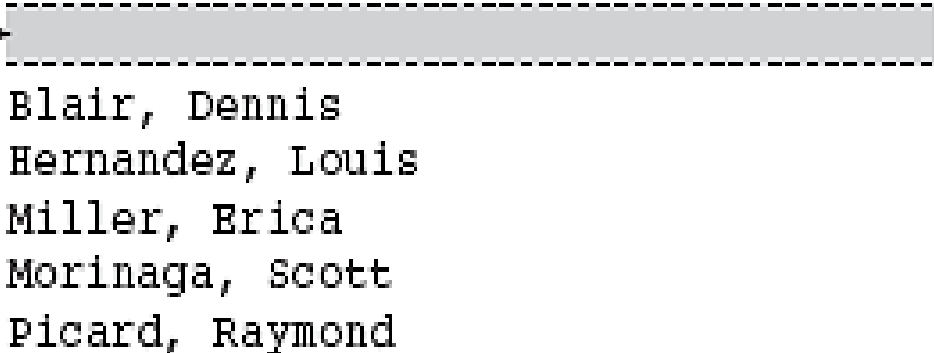
Membuka dan menutup File

Argument	Description
a	Opens the specified file for writing only and places the file pointer at the end of the file; attempts to create the file if it doesn't exist
a+	Opens the specified file for reading and writing and places the file pointer at the end of the file; attempts to create the file if it doesn't exist
r	Opens the specified file for reading only and places the file pointer at the beginning of the file
r+	Opens the specified file for reading and writing and places the file pointer at the beginning of the file
w	Opens the specified file for writing only and deletes any existing content in the file; attempts to create the file if it doesn't exist
w+	Opens the specified file for reading and writing and deletes any existing content in the file; attempts to create the file if it doesn't exist
x	Creates and opens the specified file for writing only; returns false if the file already exists
x+	Creates and opens the specified file for reading and writing; returns false if the file already exists

Membuka File

```
$BowlersFile = fopen("bowlers.txt",  
"r+");
```

File pointer →



A diagram showing a file pointer pointing to a file. The file pointer is represented by a horizontal arrow pointing to a dashed rectangular box. Below the box, the contents of the file are listed: Blair, Dennis; Hernandez, Louis; Miller, Erica; Morinaga, Scott; and Picard, Raymond.

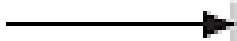
```
Blair, Dennis  
Hernandez, Louis  
Miller, Erica  
Morinaga, Scott  
Picard, Raymond
```

Membuka File

```
$BowlersFile = fopen("bowlers.txt",  
"a+");
```

```
Blair, Dennis  
Hernandez, Louis  
Miller, Erica  
Morinaga, Scott  
Picard, Raymond
```

File pointer



Menutup File

- Fungsi `fclose()` digunakan untuk menutup file stream untuk menghemat memory

```
$BowlersFile =  
    fopen("bowlers.txt", "a");  
$NewBowler = "Gosselin, Don\n";  
fwrite($BowlersFile, $NewBowler);  
fclose($BowlersFile);
```

Menulis Data ke File

- PHP memberikan dua opsi fungsi untuk menulis data ke file:
 - `file_put_contents()` : digunakan untuk menulis atau append data ke file
 - `Fwrite()` : digunakan untuk menulis data secara incremental ke file

Menulis data ke file

```
file_put_contents (filename,  
string[, options])
```

Menulis data ke file

```
$TournamentBowlers = "Blair, Dennis\n";  
$TournamentBowlers .= "Hernandez,  
    Louis\n";  
$TournamentBowlers .= "Miller, Erica\n";  
$TournamentBowlers .= "Morinaga, Scott\n";  
$TournamentBowlers .= "Picard, Raymond\n";  
$BowlersFile = "bowlers.txt";  
file_put_contents($BowlersFile,  
    $TournamentBowlers);
```

Menulis data ke file

Return dari file_put_contents()

```
if (file_put_contents($BowlersFile,  
    $TournamentBowlers) > 0)  
    echo "<p>Data was successfully  
    written to the  
        $BowlersFile file.</p>";  
else  
    echo "<p>No data was written to  
    the $BowlersFile file.</p>";
```

Menulis data ke file

```
<h1>Coast City Bowling Tournament</h1>
<?php
if (isset($_GET['first_name']) && isset($_GET['last_name'])) {
    $BowlerFirst = $_GET['first_name'];
    $BowlerLast = $_GET['last_name'];
    $NewBowler = $BowlerLast . ", " . "$BowlerFirst" . "\n";
    $BowlersFile = "bowlers.txt";
    if (file_put_contents($BowlersFile, $NewBowler, FILE_APPEND) > 0)
        echo "<p>{$_GET['first_name']} {$_GET['last_name']} has
            been registered for the bowling tournament!</p>";
    else
        echo "<p>Registration error!</p>";
}
else
    echo "<p>To sign up for the bowling tournament, enter your first
        and last name and click the Register button.</p>";
?>
<form action="BowlingTournament.php" method="get"
enctype="application/x-www-form-urlencoded">
<p>First Name: <input type="text" name="first_name" size="30" /></p>
<p>Last Name: <input type="text" name="last_name" size="30" /></p>
<p><input type="submit" value="Register" /></p>
</form>
```

Menulis Data dengan Inkremental

- Menggunakan `fwrite()`
 - `fwrite($handle, data[, length]);`
 - The `fwrite()` mengembalikan jumlah byte yang dikembalikan
 - Mengembalikan 0 jika tidak ada data yang ditulis

Membaca File

Function	Description
<code>file(filename[, use_include_path])</code>	Reads the contents of a file into an indexed array
<code>file_get_contents(filename[, use_include_path])</code>	Reads the contents of a file into a string
<code>fread(\$handle, length)</code>	Reads the contents of a file into a string up to a maximum number of bytes
<code>readfile(filename[, use_include_path])</code>	Prints the contents of a file

Membaca File

```
$DailyForecast = "<p><strong>San Francisco daily weather  
forecast</strong>: Today: Partly cloudy. Highs from the  
60s to  
mid 70s. West winds 5 to 15 mph. Tonight: Increasing  
clouds. Lows  
in the mid 40s to lower 50s. West winds 5 to 10  
mph.</p>";
```

```
file_put_contents("sfweather.txt", $DailyForecast);
```

```
$SFWeather =  
  file_get_contents("sfweather.txt");  
echo $SFWeather;
```

Membaca File

- Mencetak isi file pada browser
 - `readfile("sfweather.txt");`

Membaca File

- `File()` membaca semua isi file kemudian dimasukkan ke dalam indexed array

```
$January = "48, 42, 68\n";  
$January .= "48, 42, 69\n";  
$January .= "49, 42, 69\n";  
$January .= "49, 42, 61\n";  
$January .= "49, 42, 65\n";  
$January .= "49, 42, 62\n";  
$January .= "49, 42, 62\n";  
file_put_contents("sfjanaverages.txt  
    ", $January);
```

```
$JanuaryTemps =  
file("sfjanaverages.txt") ;  
for ($i=0; $i<count($JanuaryTemps);  
    ++$i) {  
    $CurDay = explode(", ",  
$JanuaryTemps[$i]);  
    echo "<p><strong>Day " . ($i + 1) .  
"</strong><br />";  
    echo "High: {$CurDay[0]}<br />";  
    echo "Low: {$CurDay[1]}<br />";  
    echo "Mean: {$CurDay[2]}</p>";  
}
```

direktori

Function	Description
<code>chdir(<i>directory</i>)</code>	Changes to the specified directory
<code>chroot(<i>directory</i>)</code>	Changes to the root directory
<code>closedir(<i>\$handle</i>)</code>	Closes a directory handle
<code>getcwd()</code>	Gets the current working directory
<code>opendir(<i>directory</i>)</code>	Opens a handle to the specified directory
<code>readdir(<i>\$handle</i>)</code>	Reads a file or directory name from the specified directory handle
<code>rewinddir(<i>\$handle</i>)</code>	Resets the directory pointer to the beginning of the directory
<code>scandir(<i>directory</i>[, <i>sort</i>])</code>	Returns an indexed array containing the names of files and directories in the specified directory

```
$Dir = "C:\\PHP";  
$DirOpen = opendir($Dir) ;  
while ($CurFile =  
    readdir($DirOpen) ) {  
    echo $CurFile . "<br />";  
}  
closedir($DirOpen) ;
```

```
$Dir = "C:\\PHP";  
$DirEntries = scandir($Dir);  
foreach ($DirEntries as $Entry) {  
    echo $Entry . "<br />";  
}
```

Hapus File dan Direktori

- `Unlink()` : menghapus file
- `Rmdir()`: menghapus direktori
- `File_exist()` : untuk mengecek apakah suatu file ada/tidak

Upload File

- ```
<html>
<body>

<form action="upload_file.php" method="post"
enctype="multipart/form-data"><!-- use when form require
binary data-->
<label for="file">Filename:</label>
<input type="file" name="file" id="file" /> <!-- input type
file -->

<input type="submit" name="submit" value="Submit" />
</form>

</body>
</html>
```

- ```

<?php
if ((($_FILES["file"]["type"] == "image/gif") || ($_FILES["file"]["type"] ==
"image/jpeg")) && ($_FILES["file"]["size"] < 20000))
{
    if ($_FILES["file"]["error"] > 0) {
        echo "Return Code: " . $_FILES["file"]["error"] . "<br />";    }
    else
    {
        echo "Upload: " . $_FILES["file"]["name"] . "<br />";
        echo "Type: " . $_FILES["file"]["type"] . "<br />";
        echo "Size: " . ($_FILES["file"]["size"] / 1024) . " Kb<br />";
        echo "Temp file: " . $_FILES["file"]["tmp_name"] . "<br />";

        if (file_exists("upload/" . $_FILES["file"]["name"])) {
            echo $_FILES["file"]["name"] . " already exists. ";    }
        else
        {
            move_uploaded_file($_FILES["file"]["tmp_name"],
            "upload/" . $_FILES["file"]["name"]);
            echo "Stored in: " . "upload/" . $_FILES["file"]["name"];
        }
    }
}
else
{
    echo "Invalid file";
}
?>

```

\$_FILES

- \$_FILES adalah global array dari PHP
- \$_FILES["file"]["name"] – nama dari file yg di-upload
- \$_FILES["file"]["type"] – tipe file yg di-upload
- \$_FILES["file"]["size"] – ukuran file yg diupload
- \$_FILES["file"]["tmp_name"] – nama temporary file di server
- \$_FILES["file"]["error"] – informasi error Ketika proses upload fikle