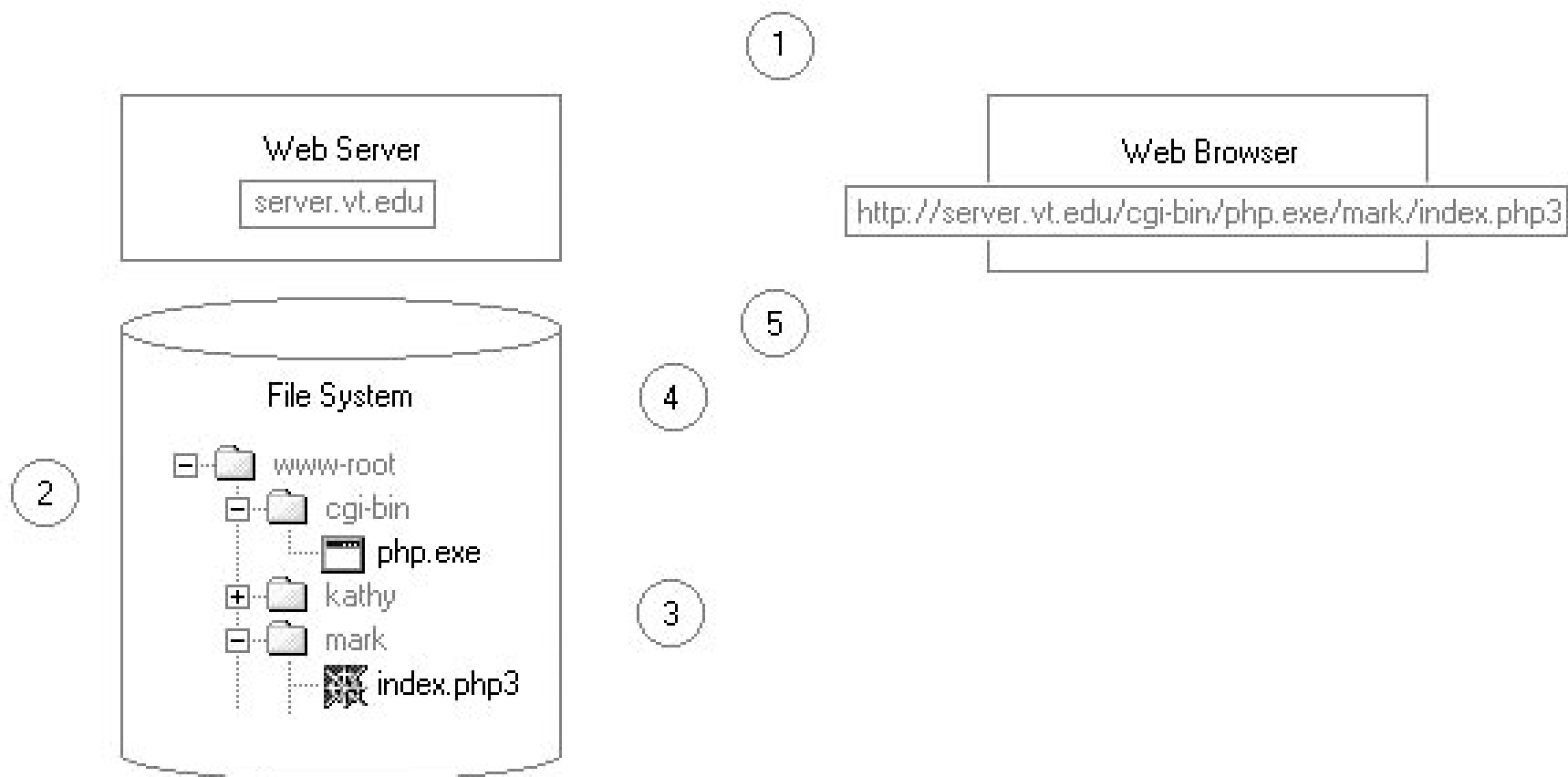


PHP3 (www.php3.net)

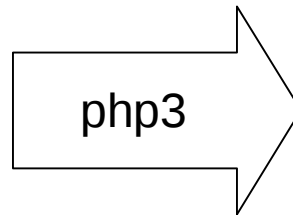
- Server-side scripting language
- CGI (Common Gateway Interface)
- Imbedded into HTML code
- Allows to create active Web-pages
- Provides programmatic access to a variety of DBMSs

Client/Server Architecture



PHP3 Interpreter

```
<html>
<head>
</head>
<body>
<h1>
<?php
echo( "Hello World!" );
?>
</h1>
...
</body>
</html>
```



```
<html>
<head>
</head>
<body>
<h1>
Hello World!
</h1>
...
</body>
</html>
```

PHP3 Syntax

- Borrowed from C, Java and Perl
- No variable declaration necessary
- \$a can store a scalar (numeric or string) value:
 `$year = 1999;`
 `$year = "1999";`
- scope is static

PHP3 Variables

- Defined (used) in the script
- Defined by the Web-Server (CGI)
 - \$SERVER_NAME,
 - \$SERVER_PROTOCOL,
 - \$SERVER_PORT, etc.
- Defined by the PHP3 interpreter:
 - environment variables (\$HOME, etc...)
 - HTML forms
 - URL decoding

HTML Forms

```
<form method=get action=test.php3>  
<input type=text name=test value="Hello World!">  
<input type=submit>  
</form>
```

- When test.php3 script is processed, \$test would be pre-defined by PHP3 to have the string value "Hello World!".

URL Decoding

`http://.../mark/test.php3?month=April&year=1999`

- When test.php3 script is processed, PHP3 interpreter would pre-define:
 - \$month to have the string value “April”,
 - \$year to have the numeric value 1999.

Database Operation

- Connect
 - receive a descriptor
- Query
 - use the connection descriptor
 - receive a result descriptor
- Process result
 - use the result descriptor to iterate tuples
- Close connection
 - use the connection descriptor

PHP3 Functions

- Predefined
 - array
 - HTTP-related
 - regular expressions
 - string
 - network
 - ODBC (and native database support)
 - etc.
- User-defined