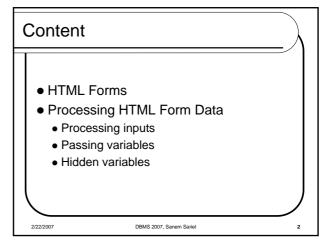
PHP Programming (III) Res. Asst. Sanem Sariel sariel@itu.edu.tr http://www2.itu.edu.tr/~sariel/course notes/dbms2007/p3/slides.pdf http://www2.itu.edu.tr/~sariel/course_notes/dbms2007/p3/codes/p3_codes.zip DBMS 2007, Sanem Sariel



Html Forms

- Users complete forms by modifiying its controls before submitting the form
 - User account operations
 - Questionnaires
 - Shopping cart forms, etc.
- The form is submitted to a Web/Mail Server to be processed

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HTML Form Specification

<form> </form>

• name : form name

• action : the URL that form data will be sent

• method : method of transmission

post • get

• Enctype : content type

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HTML Form Controls

- <input>
 - name : name of the input area
 - type : type of the input area
 - text, textarea
 - password
 - · checkbox, select
 - radio button
 - button, submit, reset
 - size : shown character size of the input area
 - maxlength : maximum input characters
 - value : default value

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\$GLOBALS

- The array that system variables are stored, \$GLOBALS:
 - HTTP_POST_VARS: _POST
 - An associative array of variables passed from a html form via POST method as <key = value> pairs
 HTTP_GET_VARS: _GET

 - An associative array of variables passed from a html form via GET method as <key = value-pairs
 HTTP_COOKIE_VARS:_COOKIE
 An associative array of variables passed to the current script via HTTP cookies as <key = value-pairs
 - HTTP_SERVER_VARS: _SERVER
 - Server variables: headers, paths, script locations
 - HTTP_ENV_VARS: _ENV
 Server Environment variables
 HTTP_POST_FILES: _FILES
 - An associative array of items uploaded to the current script from users

globals.php

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Passing Data from HTML Forms

- GET
 - All the information is added to the URL (URL Encoding).
 - <field_name = value> pairs

form_get.htm

POST

form_post.htm | form_globals.htm

- Information is not added to the URL.
- Form data appeared in the body of the HTTP request.

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GET vs. POST Methods

- GET
 - Simple and fast
 - Easy debugging
 - Limited data transmission
 - Insecure
- POST
 - Complex and slow
 - No limit in transmission
 - Secure (compared to GET)

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Robust Form Interfaces

- The end user has always the right to fill forms with
 - missing, wrong and/or malicious data
- The designer is responsible
 - to create robust systems
 - hide implementation details and system generated error messages from users
- Sample designer controls:

 - if(empty(\$_POST['field_name']))if(!ereg("[A-Za-z]{1,50}",\$name))

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Robust Form Interfaces, Cont.

- Malicious people can send harmful data.
 - Harmful commands can be written into the text fileds.
- Form data can be stripped of incorrect characters.
 - PHP has two special functions for this purpose:
 - strip_tags(\$text)
 - htmlspecialchars(\$text)

clear_tags.php

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Passing Hidden Information

- HTML do not keep state information
- State information may be needed by some applications
- Hidden fields
 - invisible to the user
 - their values are passed to the processing page
 - are usually automatically.

<input name="cur_form_state" type="hidden" value="state_1">

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File Transfer

 Various file types (pdf, doc, jpg, gif, etc.) can be uploaded to any server, using forms.

<form action=".." method="post" enctype=" multipart/form-data">

<input type="file" name="form_file">

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\$_FILES Global Variable Array

- Files that are received from users are stored in the array \$_FILES.
- Files are stored in the temp directory of the server.
 - \$_FILES['userfile']['<field>']
 - name: File name on the user side
 - type: MIME type (e.g., image/jpeg)
 - size: File size
 - tmp_name:File name on the server side
 - error: error code

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File Transfer, Cont.

- Multiple files can be uploaded in one form.
- The files are kept in an associated directory.

 send_file.htm
- bool is_uploaded_file(string file_name)
- bool move_uploaded_file (string file_name, string target_director)
 - Checks the validity of the file and moves it

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