

Web Site Development and Maintenance

CIS 9771 EL6

Spring 2001

Final Project

My Notepad
(Part I – Source Code)

Basic Features
Feature #1: Search
Feature #3: Export
Feature #4: Sort

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# ----- #
# Yigang Jin #
# CIS9771 EL6 #
# Final Project #
# Due Date: Mar.5, 2001 #
# Objective: This project is to build an online notepad #
# application using CGI/Perl, database, HTML #
# and JavaScript. #
# ----- #

# c:/perl56i/cgi-bin/notepad.pl #

#!/perl

use CGI;
use DBD::XBase;
use DBI;
use Date::Format;

my $dbh;
my $sth;
my $fields;
my $t = time2str("%x %r",time);

my $query = new CGI;
my $feature = $query->param ('feature');
my $note_id = $query->param ('id');
my $note_title = $query->param ('title');
my $note_entry = $query->param ('entry_date');
my $note_update = $query->param ('last_update');
my $note_content = $query->param ('content');
my $note_keyword = $query->param ('keyword');

if (!-d "C:/perl56i/cgi-bin/notepad")
{
mkdir("C:/perl56i/cgi-bin/notepad") || die "Cannot make notepad directory $!";
}

chdir ("C:/perl56i/cgi-bin") || die "Cannot change to cgi-bin directory $!";

# connect to database
$dbh = DBI->connect("DBI:XBase:C:/perl56i/cgi-bin/notepad") or die $DBI::errstr;

print $query->header();

# note summary screen
if ($feature ne "view" && $feature ne "search")
{

print<<"EndOfHTML";

<html>
<head>
<title>Yigang's Notepad - Note Summary</title>
<script language="JavaScript">

function titleAsc (aform)
{
document.aform.feature.value="titleAsc";
document.aform.submit();
}

function titleDesc (aform)
{
document.aform.feature.value="titleDesc";
document.aform.submit();
}

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}

function entryAsc (aform)
{
document.aform.feature.value="entryAsc";
document.aform.submit();
}

function entryDesc (aform)
{
document.aform.feature.value="entryDesc";
document.aform.submit();
}

function updateAsc (aform)
{
document.aform.feature.value="updateAsc";
document.aform.submit();
}

function updateDesc (aform)
{
document.aform.feature.value="updateDesc";
document.aform.submit();
}

</script>
</head>

<body text="#000070" bgcolor="#FFFFFF" topmargin="20" leftmargin="20"
rightmargin="20">
<basefont face="arial">

<form name="aform" method="post" action="/cgi-bin/notepad.pl">
<input type="hidden" name="feature" value="">
<input type="hidden" name="id" value="">

<table width="80%" align="center" border="1" cellspacing="0" cellpadding="2"
bgcolor="#FFFFFF">

<tr>
<td colspan="4" bgcolor="sky blue">
<table width="100%">
<tr>
<td align="left">
<font color="#000000" size="+1"><b>Yigang's Notepad</b> - Note Summary</font>
</td>
<td align="right">
&nbsp;
<a href="/NoteEntry.html"></a>&nbsp;
<a href="/NoteSearch.html"></a>&nbsp;

</td>
</tr>
</table>
</td>
</tr>

<tr>
<td>&nbsp;</td>
<th align="center">
Title&nbsp;  
<a href="javascript:onclick=titleAsc()"></a>&nbsp;  
<a href="javascript:onclick=titleDesc()"></a>
</th>
<th width="30%" align="center">
Entry Date&nbsp;  
<a href="javascript:onclick=entryAsc()"></a>&nbsp;  
<a href="javascript:onclick=entryDesc()"></a>
</th>
<th width="30%" align="center">

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Last Updated&nbsp;
<a href="javascript:onclick=updateAsc()"></a>&nbsp;
<a href="javascript:onclick=updateDesc()"></a>
</th>
</tr>

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EndOfHTML
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if ($feature eq "save")
{
$note_id = time ();
$note_entry = $t;
$note_update = $t;

$sth = $dbh->prepare ("INSERT INTO notepad (id, title, entry_date, last_update,
content) VALUES ('$note_id', '$note_title', '$note_entry', '$note_update',
'$note_content')");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "update")
{
$note_update = $t;

$sth = $dbh->prepare ("UPDATE notepad set title='$note_title',
last_update='$note_update', content='$note_content' WHERE id=$note_id");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "delete")
{
$sth = $dbh->prepare ("DELETE FROM notepad WHERE id=$note_id");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "export")
{
open (OUT, ">$note_title.txt");
print OUT "$note_title\n\n";
print OUT "$note_content\n";
close (OUT);

print<<"EndOfHTML";

<br>
<center><font color="#FF0000">
The note '$note_title' has been successfully exported into<br>
the file '$note_title.txt' in 'c:/perl56i/cgi-bin/' directory.<br><br>
<center>

EndOfHTML
}

else
{

# Prepare the SQL query for execution
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;

# Execute the query
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";

if ($feature eq "titleAsc")
{

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$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY title ASC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "titleDesc")
{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY title DESC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "entryAsc")
{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY entry_date ASC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "entryDesc")
{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY entry_date DESC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "updateAsc")
{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY last_update ASC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

elsif ($feature eq "updateDesc")
{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content FROM
notepad ORDER BY last_update DESC");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";
}

else
{
# Fetch each row and print it
while ( $fields = $sth->fetchrow_arrayref() )
{
writeNotepad($fields->[0], $fields->[1], $fields->[2], $fields->[3], $fields->[4]);
}

# close and disconnect from the database
$sth->finish() if (defined $sth);
$dbh->disconnect() if (defined $dbh);

print<<"EndOfHTML";

</table>

</body>
</html>

EndOfHTML
}

# note edit/update screen
if ($feature eq "view")

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{
$sth = $dbh->prepare ("SELECT id, title, entry_date, last_update, content from
notepad where id=$note_id");
die "cannot prepare statement: $DBI::errstr\n" if !defined $sth;
$sth->execute() or die "Couldn't execute statement: $DBI::errstr; stopped";

# Fetch each row
while ( $fields = $sth->fetchrow_arrayref() )
{
fetchNotepad($fields->[0], $fields->[1], $fields->[2], $fields->[3], $fields->[4]);
}

print<<"EndOfHTML";

<html>
<head>
<title>Yigang's Notepad - Note Edit</title>
<script language="JavaScript">

function update (aform)
{
document.aform.id.value="$note_id";
document.aform.feature.value="update";
document.aform.submit();
}

function expt (aform)
{
document.aform.id.value="$note_id";
document.aform.title.value="$note_title";
document.aform.content.value="$note_content";
document.aform.feature.value="export";
document.aform.submit();
}

</script>
</head>

<body text="#000070" bgcolor="#FFFFFFE" topmargin="20" leftmargin="20"
rightmargin="20">
<basefont face="arial">

<form name="aform" method="post" action="/cgi-bin/notepad.pl">
<input type="hidden" name="feature" value="">
<input type="hidden" name="id" value="$note_id">
<input type="hidden" name="entry_date" value="$note_entry">
<input type="hidden" name="last_update" value="$note_update">

<table width="80%" align="center" border="1" cellspacing="0" cellpadding="2"
bgcolor="#FFFFFF">

<tr>
<td bgcolor="sky blue">
<table width="100%">
<tr>
<td align="left"><font color="#000000" size="+1"><b>Yigang's Notepad</b></font> -
<font color="#000000" size="+1">Note Edit</font></td>
<td align="right">
&nbsp;
<a href="javascript:onclick=update()"></a>&nbsp;
<a href="/cgi-bin/notepad.pl"></a>&nbsp;
<a href="NoteEntry.html"></a>&nbsp;
<a href="javascript:onclick=expt()"></a>
</td>
</tr>
</table>
</td>
</tr>

```



```
</table>
</form>

</body>
</html>
<!-- c:/perl56i/htdocs/NoteSearch.html -->
```

```
<html>
<head>
<title>Yigang's Notepad - Note Search</title>
<script language="JavaScript">
<!--
    function search (aform)
    {
        document.aform.id.value="";
        document.aform.feature.value="search";
        document.aform.submit();
    }
-->
</script>
</head>

<body text="#000070" bgcolor="#FFFFFFE" topmargin="20" leftmargin="20"
rightmargin="20">
<basefont face="arial">

<form name="aform" method="post" action="/cgi-bin/notepad.pl">
<input type="hidden" name="feature" value="">
<input type="hidden" name="id" value="">

<table width="80%" align="center" border="1" cellspacing="0" cellpadding="2"
bgcolor="#FFFFFF">

<tr>
<td colspan="4" bgcolor="sky blue">
<table width="100%">
<tr>
<td align="left"><font color="#000000" size="+1"><b>Yigang's Notepad</b></font>
- <font color="#000000" size="+1">Note Search</font></td>
<td align="right">
&nbsp;
<a href="NoteEntry.html"></a>&nbsp;
<a href="/cgi-bin/notepad.pl"></a>&nbsp;&nbsp;
<input type="text" name="keyword" value="" size="10">&nbsp;
<a href="javascript:onclick=search()"></a>
</td>
</tr>
</table>
</td>
</tr>

<tr>
<td>&nbsp;&nbsp;&nbsp;</td>
<th align="center">Matched Titles</th>
<th width="30%" align="center">Entry Date</th>
<th width="30%" align="center">Last Updated</th>
</tr>

</table>
```

```
</form>
```

```
</body>
```

```
</html>
```