

## RE: Tracking Log In and Log Out times of Users

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*Source:*

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.modulesdaovba/2006-07/msg00004.html>

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- *From:* Dan <[Dan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Dan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Fri, 30 Jun 2006 17:41:01 -0700
- 

Does it matter that I'm on a server. the IT people have restrictions set up on our department folder. I know we have permission to read and write.

"Klatuu" wrote:

This one I don't understand. I see your dim as  
Dim rst As Recordset.

If you have both DAO and ADO references set, this might be the problem. You may need to specify  
Dim rst As DAO.Recordset (or ADO if that is what you are using)

"Dan" wrote:

also when I go into the form it give me an error message that says Run Time Error '13': Type mismatch and then highlights Set rst = CurrentDb.OpenRecordset("AuditLog")

"Dan" wrote:

I made the change and rename my Fucnciton "Logger" and my Module "AuditLogger". Now I'm getting an error when I run my forms that say it can't find my table "AuditLog". Then it goes to the debugger and hightlights  
Set rst = CurrentDb.OpenRecordset("AuditLog") in the code you gave me for the auditlogger module which is listed below. Even if I use tblAuditLog as you did, which I assume is the name you gave the table you created, I get the same message. I'm assuming that because I did not use tbl to distinguish my table in its name I do not need to use the tbl in the code or is

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tbl part of  
the code?

```
Public
Function
AuditLogger(strObject
as
String)
Dim
rst
As
Recordset

Set
rst
=
CurrentDb.OpenRecordset("tblAudit
With
rst
.AddNew
![User]
=
Me.UserId
![TimeStamp]
=
Now()
![ObjectAccessed]
=
strObject
.Update
End
With
Set
rst
=
Nothing
End
Function
```

"Klatuu" wrote:

AuditLogger is a Sub, not a module.  
Modules contain Subs and Functions.  
There are 3 types of modules.  
A Form module is an object attached to a  
form object that contains code for

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that form. It loads with the form.

A Report module is the same, except it is specific to that report.

A Standard module is not associated with any specific form or report, but is a collection of Subs and Functions visible to any object. This is where you put code you want to use throughout the application.

Now, there is one important point. A module cannot have a Sub or Function

in it that has the same name as the module.

For example, you have a Function name AuditLogger; therefore, you can't name the module AuditLogger. It will confuse Access.

"Dan" wrote:

Sorry but I'm just learning how to use modules.

On my startup form, (that opens every time the database is open, but is visible) I went to design and clicked on upper left box of the design form and click on properties for the form. I then went to the load event and clicked on the 3 dots and chose code builder. When it the code builder comes up I have "form" in the left box and "Load" in the right dropdown box with the following in the lower pane

```
Private Sub Form_Load()
```

```
End Sub
```

I then put  
AuditLogger("Logged In")  
as follows

```
Private Sub Form_Load()  
AuditLogger("Logged In")
```

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End Sub

I also did the same for my  
Closed Event except I put  
AuditLogger("Logged Out")

Then on the form that  
everyone accesses for this  
database I did the same  
thing. I open it in design  
view clicked on the box in  
the upper left  
corner and then went to  
properties for the form then  
to Load event and did  
the same as above but used

AuditLogger(me.Name)

However I keep getting an  
error message that says that  
AuditLogger is not a  
module. I'm I doing this  
right. I have a icon in my  
Modules for AuditLogger  
with the code you had given  
me before. Thanks for the  
help, I'm just  
learning so I'm sorry for the  
repeted questions.

"Klatuu" wrote:

You don't  
need to use  
Call. Call is  
for Subs,  
this is a  
function.  
Subs and  
Functions  
are very  
similar, but  
there are  
some  
differences.

To repeat  
the  
instructions

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I posted earlier:  
With your form or report open in design view, open the properties dialog and select the Events tab. Click in the text box for the Load event. Click the command button with the 3 dots when it appears. select code builder.

Once you have selected Code Builder, the VBA editor will show with the sub declaration already done. This is where you put the call to the function, which is:

`AuditLogger(Me.Name)`

"Dan"  
wrote:

I  
sorry  
this

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is  
what  
I  
dont  
understand  
how  
to  
put  
the  
call  
to  
the  
function  
in  
the  
event  
procedure.  
I  
have  
never  
worked  
with  
modules  
before  
and  
this  
is  
all  
new  
to  
me.  
I'm  
assuming  
that  
this  
a  
command  
line  
that  
goes  
like  
"Call  
AuditLogger"  
then  
"end  
sub"  
  
"Klatuu"  
wrote:

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We  
have  
too  
many  
nested  
answers  
and  
it  
is  
getting  
hard  
to  
follow.  
I  
apologize  
if  
I  
missed  
something.

If  
you  
copied  
the  
code  
I  
posted  
into  
a  
function,  
then  
you  
don't  
need  
to  
worry  
about  
an  
append  
query.  
The  
code  
I  
sent  
uses  
the  
recordset  
way  
of  
doing  
it.

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Since you are trying to learn to use VBA, we will use that method, although it is not the only way to do it. With your form or report open in design view, open the properties dialog and select the Events tab. Click in the text box for the Load

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event.  
Click  
the  
command  
button  
with  
the  
3  
dots  
when  
it  
appears.  
select  
code  
builder.  
Now  
put  
the  
call  
to  
the  
function  
in  
the  
event  
procedure.

"Dan"  
wrote:

see  
below

"Klatuu"  
wrote:

See  
answers  
below,  
I  
hope  
this  
is  
useful.

"Dan"  
wrote:

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"Klatuu"  
wrote:

It  
will  
take  
a  
little  
work,  
but  
you  
can  
do  
it.  
First,  
you  
will  
need  
to  
be  
able  
to  
capture  
the  
userid  
of  
the  
logged  
on  
user.  
Here  
is  
a  
link  
to  
an  
API  
routine  
that  
does  
that:  
<http://www.mvps.org>

I  
have  
copy  
this

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code  
and  
placed  
it  
in  
my  
modules

You're  
app  
will  
need  
a  
form  
that  
is  
opened  
when  
assess  
opens.  
You  
identify  
that  
form  
from  
the  
menu  
bar  
Tools,  
Startup  
and  
put  
the  
name  
of  
the  
form  
in  
Display  
Form/Page:

I  
have  
a  
start-up  
form  
that  
opens  
when

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the  
database  
opens.

This  
form  
should  
always  
be  
open.  
You  
can  
make  
it  
invisible,  
but  
it  
is  
the  
easiest  
way  
to  
handle  
closing  
the  
application  
without  
having  
to  
put  
code  
in  
every  
form's  
close  
event.

My  
startup  
form  
is  
always  
open  
and  
is  
the  
only  
way  
to

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navigate  
within  
the  
database

You  
will  
need  
a  
function  
in  
a  
standard  
module  
that  
can  
be  
accessed  
from  
any  
form  
or  
report  
that  
will  
write  
an  
entry  
to  
an  
audit  
log  
table.

I  
have  
a  
audit  
log  
tabel,  
however  
what  
fields  
should  
I  
put  
in  
this  
table.

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What  
would  
this  
function  
look  
like.  
I'm  
new  
to  
module  
and  
I'm  
trying  
to  
learn  
how  
to  
write  
code  
and  
how  
this  
works.

What  
fields  
you  
put  
in  
the  
table  
are  
up  
to  
you.  
You  
probably  
want  
UserId,  
TimeStamp,  
and  
Object  
Accessed.  
(that  
would  
be  
the  
form  
or  
report

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opened,  
or  
Logged  
In  
or  
Logged  
Out).

I  
set  
up  
my  
AuditLog  
with  
4  
fields,  
autoNumber,  
UserId,  
TimeStamp  
and  
Object  
Accessed

As  
to  
the  
code,  
it  
could  
be  
done  
a  
couple  
of  
ways.

One  
would  
be  
an  
append  
query  
that  
would  
add  
a  
row  
to  
the

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audit  
log

c>

and  
the

other  
would  
be  
using  
a  
recordset.

Im  
not  
sure  
what  
a  
recordset  
is  
or  
how  
to  
use  
it

To  
call  
the  
function,  
you  
would  
put  
something  
like  
this  
in  
the  
Load  
event  
of  
each  
form  
or  
report:

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AuditLogger(Me.Name)  
and  
in  
the  
Load  
event  
of  
your  
main  
form  
AuditLogger("Logged  
In")  
and  
in  
the  
Close  
event  
of  
your  
main  
form  
AuditLogger("Logged  
Out")

I'm  
not  
sure  
how  
to  
call  
the  
function.  
What  
do  
I  
do  
to  
call  
it?  
Do  
I  
need  
to  
go  
to  
Expression,  
Macro  
or  
Code  
builder

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or  
do  
I  
just  
type  
in  
AuditLogger("Logged  
In")  
in  
the  
box  
next  
to  
on  
load.

Now  
the  
function  
(which  
must  
be  
in  
a  
standard  
module)  
Public  
Function  
AuditLogger(strObject  
as  
String)  
Dim  
rst  
As  
Recordset

Set  
rst  
=  
CurrentDb.OpenRecordset("tblAudit")  
With  
rst  
.AddNew  
![User]  
=  
Me.UserId  
![TimeStamp]  
=  
Now()  
![ObjectAccessed]

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```
=  
strObject  
.Update  
End  
Wtih  
Set  
rst  
=  
Nothing  
End  
Function
```

I  
created  
a  
Module  
called  
AuditLogger  
with  
the  
code  
above.

Then  
in  
the  
Load  
event  
of  
each  
form  
and  
report,  
call  
the  
function  
and  
pass  
it  
the  
information  
you  
want  
captured  
in  
your

audit  
log.

Are  
you  
talking  
about  
the  
function  
you  
mentioned  
above?  
I'm  
assuming  
that  
what  
you  
mean  
is  
on  
each  
form  
on  
my  
start-up  
screen  
I  
should  
write  
code  
to  
the  
on  
load  
of  
the  
properties  
of  
the  
form  
that  
will  
refer  
to  
the  
function  
created  
above  
and  
this

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will  
write  
to  
the  
audit  
log

In  
the  
Load  
event  
of  
every  
form  
and  
report  
AuditLogger(Me.Name)  
Will  
cause  
an  
entry  
to  
be  
written  
to  
the  
Log.  
It  
can  
also  
be  
used  
in  
a  
Macro,  
except  
you  
will  
have  
to  
hard  
code  
the  
Macro's  
name  
in  
place  
of  
Me.Name.  
Now,

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you  
could  
also  
track  
any  
other  
activity  
you  
want  
by  
adding  
a  
second  
argument  
to  
the  
function.  
AuditLogger(Me.Name,  
"Open")

–  
Call  
in  
the  
Load  
event  
to  
know  
the  
object  
was  
opened.  
AuditLogger(Me.Name,  
"Close")

–  
Call  
in  
the  
Close  
event  
to  
know  
the  
object  
was  
closed.  
Now  
let's  
say  
you  
want  
to

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record  
that  
a  
user  
exported  
data  
to  
Excel.  
You  
could  
make  
calls  
in  
your  
VBA  
code  
to  
record  
that:  
DoCmd.TransferSpreadsheet...  
AuditLogger("qselSomeData",  
"Exported")

Tracking  
tables  
and  
queries  
is  
not  
really  
necessary.  
If  
the  
app  
is  
structured  
so  
that  
users  
cannot  
get  
directly  
to  
these  
objects  
(that  
is  
the

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way  
it  
should  
be),  
you  
will  
know  
what  
data  
the  
user  
is  
working  
with  
from  
the  
forms  
and  
reports  
they  
open.

And  
when  
the  
use  
closes  
the  
app,  
our  
famous  
invisible  
statup  
form's  
Close  
event  
should  
capture  
that  
fact  
and  
update  
the  
audit  
table.

"Dan"  
wrote:

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I need to track the log in and log out tie of users.

I would like to store this information in a table and be able to refer back to it, if needed.

I was also wondering if the log could track what forms, queries or table each individual opened while

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online.