

# Voyager Room Reservations: Made Easy



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# Short Loan



- Circulation Module
- Scroll left to right
- Is it a room or an item?
- Which room is it?

# Short Loan



**Short Loan Search List**

Pick Up Location:

Search:

From:  ...

To:  ...

Patron Name	Patron Barcode	Title	Call Number	Enum/Chron	Item Location	II
Test Patron	888888888	Study Rooms	Study Room Key	/ / 1	Circulation Desk 1st fl	S
Test Patron	888888888	Media Room	Media Room Key	/ / 1	Circulation Desk 1st fl	S
Elizabeth Suzann Jones	00000926	Study Rooms	Study Room Key	/ / 2	Circulation Desk 1st fl	S

**Short Loan Search List**

Pick Up Location:

Search:

From:  ...

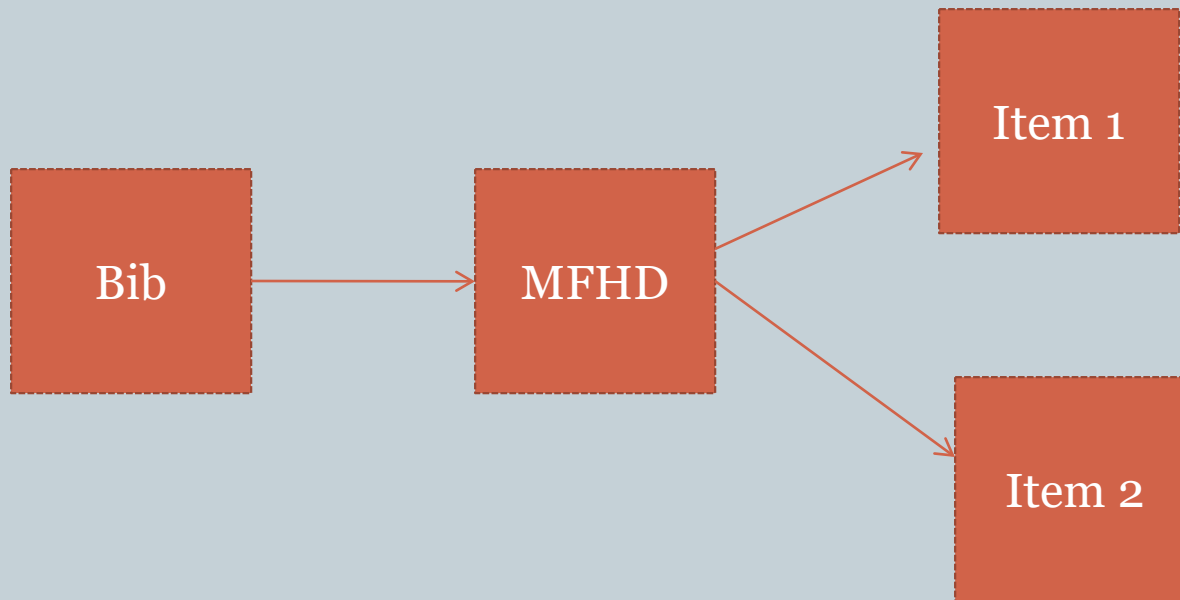
To:  ...

Item Location	Item Status	SL Status	Start-End Time
Circulation Desk 1st fl	Short Loan Request+	Accepted - 8/3/2011 09:49 AM	8/3/2011 12:00 PM - 8/3/2011 02:00 PM
Circulation Desk 1st fl	Short Loan Request+	Accepted - 8/3/2011 09:49 AM	8/3/2011 02:00 PM - 8/3/2011 04:00 PM
Circulation Desk 1st fl	Short Loan Request+	Accepted - 8/3/2011 09:50 AM	8/3/2011 03:00 PM - 8/3/2011 04:00 PM

# Study Rooms



- 2 Study Rooms
- Media Room
- 2 Faculty Carrels





# CGI/PERL



- PERL is the language we are going to use to write the room reservations script.
- CGI is the interface that lets the web browser and the script communicate.
- The file will be named `rooms.cgi` and referred to as a CGI script.
- Lots of people find this confusing and think the programming language is CGI.

# What You Need



- Notepad++ (<http://notepad-plus-plus.org/>)
- FTP access to your server
- FTP Software
  - FTP commander (<http://www.internet-soft.com/ftpcomm.htm>)
  - Filezilla (<http://filezilla-project.org/>)

# CGI/PERL Server Configuration



- CGI has to be enabled on your server.
- An http alias has to be defined for the folder where you are posting files.
- `etc/aliases/xxxdb_vwebv_httpd.conf`
- The CGI script will go in the following folder  
`/m1/voyager/xxxdb/tomcat/vwebv/context/vwebv/htdocs/vwebv`
- You will be able to access it at  
<http://serveraddress/vwebv/rooms.cgi>



# PERL Examples



- **Declaring variables**
  - My \$variable;
- **Ending Statements**
  - Every statement ends with a semicolon
  - \$variable = "Elizabeth";
- **Comments**
  - Start a comment with the pound sign
  - #this script was created on 8/4/2011

# Rooms.cgi



- You can download the CGI script at <http://www.okcu.edu/library/cgi>
- The first thing you need to do is set up the HTML form contained in the CGI script.
- The second thing you will need to do is construct your queries. There are three of them and they are at the bottom of the CGI script.

# Form & Style Sheet



Line 104

```
print "<LINK REL=StyleSheet  
  HREF='http://yourserver/vwebv/rooms.css'  
  TYPE='text/css' MEDIA=screen>";
```

Line 190

```
print "<br><div id='formdate'><form method='get'  
  action='http://yourserver/vwebv/rooms.cgi'>";
```

# Reserve Query



```
sub ConstructReserveSQL { return (" select
$db_name.short_loan.bib_id,
$db_name.short_loan.item_id,
to_char($db_name.short_loan.start_time,'MMDDHH2
4'), to_char($db_name.short_loan.end_time,
'MMDDHH24') from $db_name.short_loan where
($db_name.short_loan.bib_id = '297270' Or
$db_name.short_loan.bib_id = '297271' Or
$db_name.short_loan.bib_id = '308320' Or
$db_name.short_loan.bib_id = '302625') and
(to_char($db_name.short_loan.start_time,'YYYYMMD
D') = $sql_date OR
to_char($db_name.short_loan.end_time,
'YYYYMMDD') = $sql_date) "); }
```

# Charge Query



```
sub ConstructChargeSQL { return (" select $db_name.bib_text.title,  
  $db_name.item.item_id,  
  to_char($db_name.circ_transactions.charge_date, 'MMDDHH24'),  
  to_char($db_name.circ_transactions.current_due_date,  
  'MMDDHH24MI') from $db_name.bib_text, $db_name.bib_item,  
  $db_name.item, $db_name.circ_transactions where  
  $db_name.bib_text.bib_id = $db_name.bib_item.bib_id and  
  $db_name.bib_item.item_id = $db_name.item.item_id and  
  $db_name.item.item_id = $db_name.circ_transactions.item_id  
  and ((to_char($db_name.circ_transactions.charge_date,  
  'YYYYMMDD') = $sql_date or  
  (to_char($db_name.circ_transactions.current_due_date,  
  'YYYYMMDD')= $sql_date)) and ($db_name.item.item_type_id =  
  '65' or $db_name.item.item_type_id = '64' or  
  $db_name.item.item_type_id = '67' or  
  $db_name.item.item_type_id = '66'))"); }
```

# Operating Hours



```
sub OperatingHours { return (" select
$db_name.exception_calendar.calendar_id,
to_char($db_name.exception_calendar.exception_d
ate, 'MMDDHH24'),
$db_name.exception_calendar.exception_open,
$db_name.exception_calendar.exception_openhour
,
$db_name.exception_calendar.exception_closehour
from $db_name.exception_calendar where
$db_name.exception_calendar.calendar_id = '5' and
to_char($db_name.exception_calendar.exception_d
ate, 'YYYYMMDD') = $sql_date "); }
```

# Variables



```
$ENV{ORACLE_SID} = "VGER";
```

```
$ENV{ORACLE_HOME} =
```

```
"/oracle/app/oracle/product/10.2.0/db_1";
```

```
my $db_name = "xxxdb"; my $username =  
"xx_XXXXX";
```

```
my $password = " xx_XXXXX ";
```

# Make Table



## Starting at line 360

```
$n = 0;
while ($n < 48) {
    $use[$n] = 'available';
    $use2[$n] = 'available';
    $use3[$n] = 'available';
    $use4[$n] = 'available';
    $use5[$n] = 'available';
    $use6[$n] = 'available';
    $n++;
}

print "<div id='maketable'><table valign='center'>";
print "<th></th>";
print "<th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=297270'>
Room 204</a></th><th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=297270'>
Room 205</a></th><th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=297271'>
Media Room</a></th><th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=308320'>
Room 510</a></th><th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=308320'>
Room 511</a></th><th><a
href='http://library.okcu.edu/vwebv/patronRequest?requestCode=SHORTLOAN&requestSiteId=1%40OKCITYDB20030515094709&bibId=302625'>
Netbook</a></th>";
```



# Make Table



## Starting at line 730

```
$n2 = 0;
while ($col[$n2]) {
    print
    "<tr><td><b>$col[$n2]</b></td><td>$use[$n2]</td><td>$u
se2[$n2]</td><td>$use3[$n2]</td><td>$use4[$n2]</td><td
>$use5[$n2]</td><td>$use6[$n2]</td></tr>";
    $n2++;
}
print "</table></div>";

}
```

# Operating Hours



## Starting on Line 375

#insert normal operating hours here, I have done an hourly basis, you could change to 30 minute intervals

```
@col2 = ('7:00 AM', '8:00 AM', '9:00 AM', '10:00 AM', '11:00 AM', '12:00 PM', '1:00 PM', '2:00 PM', '3:00 PM', '4:00 PM', '5:00 PM', '6:00 PM', '7:00 PM', '8:00 PM', '9:00 PM', '10:00 PM', '11:00 PM');
```

#our normal operating hours are different on Sun, Sat, and Fri so we have arrays for those 3 days as well

```
@sun = ('12:00 PM', '1:00 PM', '2:00 PM', '3:00 PM', '4:00 PM', '5:00 PM', '6:00 PM', '7:00 PM', '8:00 PM', '9:00 PM', '10:00 PM', '11:00 PM');
```

```
@sat = ('10:00 AM', '11:00 AM', '12:00 PM', '1:00 PM', '2:00 PM', '3:00 PM', '4:00 PM', '5:00 PM', '6:00 PM');
```

```
@fri = ('7:00 AM', '8:00 AM', '9:00 AM', '10:00 AM', '11:00 AM', '12:00 PM', '1:00 PM', '2:00 PM', '3:00 PM', '4:00 PM', '5:00 PM', '6:00 PM');
```

#this array contains all hours of the day starting with 1am. If you want 30 minute intervals, you will need to add those here as well.

```
@other = ('1:00 AM', '2:00 AM', '3:00 AM', '4:00 AM', '5:00 AM', '6:00 AM', '7:00 AM', '8:00 AM', '9:00 AM', '10:00 AM', '11:00 AM', '12:00 PM', '1:00 PM', '2:00 PM', '3:00 PM', '4:00 PM', '5:00 PM', '6:00 PM', '7:00 PM', '8:00 PM', '9:00 PM', '10:00 PM', '11:00 PM', '12:00 AM');
```

# Closed Hours



Starting at line 460

```
elseif ($day2 eq 'closed') {  
    @col = ();  
    print "<span id='closed'>The library is closed on this  
day. See the library <a  
href='http://www.okcu.edu/library/calendar.htm'>c  
alendar</a> for hours of operation.</span><br>";  
}
```

# Item ID



Starting on line 516, 567, 591, 642, 682, &  
703

```
if ($dataitemid[$n] == '315264') {  
    $use[$time3] = 'IN USE';  
}  
elseif ($dataitemid[$n] == '317738') {  
    $use2[$time3] = 'IN USE';  
}  
elseif ($dataitemid[$n] == '315265') {  
    $use3[$time3] = 'IN USE';  
}  
elseif ($dataitemid[$n] == '325715') {  
    $use4[$time3] = 'IN USE';  
}  
elseif ($dataitemid[$n] == '325716') {  
    $use5[$time3] = 'IN USE';  
}  
elseif ($dataitemid[$n] == '320232') {  
    $use6[$time3] = 'IN USE';  
}
```

# Drawbacks



- Reservations made by phone or in-person
  - Still use circulation module
- Half hour check-outs are rounded

# QUESTIONS??

