

Single Mouse Class (Second Method)

As an example of the second method, the following Mouse Object occupies a single file, but has several methods which are called by the respective Page class in order to render the respective view. When the constructor is called, a basic Mouse Object is instantiated.

```
class MessageDB extends DB {  
    function __construct() {  
        parent::__construct();  
  
        $this->has(array(  
            message_id => array(isa => 'int'),  
            subject => array(name => 'Subject',  
                isa => 'Str32'),  
            message => array(isa => 'Text'),  
            from_user_id => array(name => 'From',  
                isa => 'int'),  
            to_user_id => array(name => 'To',  
                isa => 'int'),  
            sent_date_time => array(name => 'Time Sent',  
                isa => 'DateTime'),  
            order => 'desc'),  
            read_date_time => array(isa => 'DateTime')  
        ));  
    }  
}
```

When the Viewer page class calls the `set_view_options()` method, the Mouse Object is modified to reflect the needs of the Viewer page.

```
function set_view_options() {  
    //modify the join option of the message_id attribute  
    $message_id->join = array(where => "lms_message.message_id = " . $this->get_message_id());  
    $this->modify_message_id($message_id);  
  
    $subject->name = "";  
    $this->modify_subject($subject);  
  
    $message->row = 2;  
    $message->col = 1;  
    $message->name = "Message";  
    $this->modify_message($message);  
  
    $from_user_id->join = array(table => 'lms_user lu_from',  
        column => 'lu_from.username',  
        where => 'lu_from.user_id = lms_message.from_user_id');  
    $from_user_id->row = 1;  
    $from_user_id->col = 1;  
    $this->modify_from_user_id($from_user_id);  
  
    $to_user_id->join = array(table => 'lms_user lu_to',  
        column => 'lu_to.username',  
        where => 'lu_to.user_id = lms_message.to_user_id');  
    $to_user_id->row = 1;  
    $to_user_id->col = 2;  
    $this->modify_to_user_id($to_user_id);  
}
```

```
$sent_date_time->row = 3;
$sent_date_time->col = 1;
$this->modify_sent_date_time($sent_date_time);

$read_date_time->row = 3;
$read_date_time->col = 2;
$read_date_time->name = "Time Read";
$this->modify_read_date_time($read_date_time);
}

function set_list_options() {
// modify the Mouse Attribute "subject" to properly render the list
//message_id is in the 0th array position of this MOUSE object
$subject->link = function($data) {return('default.php?appname=message-view&message_id=' .
$data[0]);};
$this->modify_subject($subject);

// modify the Mouse user_id Attributes in order to render the user lists
$from_user_id->join = array(table => 'lms_user lu_from',
column => 'lu_from.username',
where => 'lu_from.user_id = lms_message.from_user_id');
$this->modify_from_user_id($from_user_id);

$to_user_id->join = array(table => 'lms_user lu_to',
column => 'lu_to.username',
where => 'lu_to.user_id = lms_message.to_user_id');
$this->modify_to_user_id($to_user_id);
}
```

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