

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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