Group: Sarah Stauber, Emma Juettner, Leo Carrico, Samuel Robertson

**Final Project Deliverable 3**

Goals:

In the final phase of this project, our goals were to develop a PHP interface that can be used to access our Video Store database and perform various functions, as described in the project requirements.

Implementation Process:

We began implementing our database by making a list of all the pages that we needed to include, and dividing them among ourselves to work on. We started with the login pages, and then worked our way to the subpages of the member and administrator menus. Once we were mostly done writing the PHP, we also began working on the CSS styles. We updated the SQL to create and populate our database as we worked on the PHP, since we had to make multiple changes to the database to properly implement and test the PHP interface.

Revisions to Phase 2 Specifications:

We made some changes to the SQL we submitted for Phase 2. Mainly, these were changes related to the attribute types of primary keys and text fields to avoid problems in our implementation of the database (see below).

Problems Encountered:

* We had to change several of the attribute types in our database to make some of our functions work correctly (e.g. changing primary keys for several categories from char to int and setting them to auto-increment, or making char fields longer so names wouldn’t get cut off).
* We had to restructure the way we tracked fines, eventually settling on storing a member’s total outstanding fines in a BALANCE column in the MEMBER table and storing individual fine amounts in the INVOICE\_TRANSACTION table.
* We had some issues with mixed capitalization causing errors when we accessed the database on Mac computers (for some reason Windows didn’t have the same problem) so we had to change all our SQL queries to lower-case.
* We had to account for the possibility of users reloading pages that were not meant to be reloaded, for example the movie\_search\_target.php page, so we added statements that would direct them back to the previous page if the necessary data had not been submitted via post.

Users’ Guide: