**Team 29: Test Plan Document**

**Introduction**

We are creating a website repository that will store Chicago Board of Review class and lecture resources. The course material will be stored on a database, and access to parts of the site and course resources will be restricted to participants in the Chicago Board of Review courses.

**Strategy**

Robert Billinghurst will be in charge of quality assurance, and Jason Faulk, Jonny Mai, and Corey Mayo will assist in testing. Corey Mayo will be in charge of PayPal testing. Robert Billinghurst will be in charge of non-source code document quality.

We will be performing unit, system, and usability testing. Unit tests will be created for all model and library methods using Toast (a unit tester for CodeIgniter). Due to the difficultly in unit testing controller methods when using CodeIgniter, the functionality of controllers will be ensured through strict system tests. Unit tests will be performed whenever the associated method is updated. Usability testing will be accomplished through functional walkthroughs on different browsers with javascript disabled. System testing will be handled through requirement tracing, and all possible inputs will be considered when creating tests. Unit tests will be done through white-box testing and system tests will be done through black box testing. System tests will be too complicated to perform white-box testing on.

Testing for PayPal will be conducted in the PayPal Sandbox test environment.

We have our code stored on Google Code project hosting, so we will use their issue tracking system to track bugs. Priority of bug fixes can be ranked as low, medium, high, or critical. Their status will be indicated as new (new bug), fixed (code has been edited and we think it is fixed), verified (tested and verified to work), invalid (not a bug), and WontFix (no action will be taken).

**Adequacy Criteria**

At least one unit test should be written for each model and library method. Tests of each model and library method should cover every line of code. This will help ensure the quality of the code. Unit tests will not be written for controller methods due to CodeIgniter limitations.

System testing will be done for every requirement. There should be a matching system test for every use case. All valid and invalid inputs will be tested. This will ensure the product meets the requirements.

**Bug Tracking**

Please visit <http://code.google.com/p/homerweb/issues/list>

Note that in order to see fixed bugs, you need to search All Issues (drop down box) or see *BugTracking.jpg* in the deliverables folder.

**Test Cases**

Please see *Test Cases.pdf* in the deliverables folder.