**Project 2:**

**Test Plan**

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**Revision History**

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1. **Introduction**

This document is a test plan to verify that the functionality of the developed system is operational as per the Project Requirements Document (PRD).

1. **Features being Tested**

The following features will be tested:

* Verification of database check constraints
* Verification of protection against injection attacks
* Latest Internet Explorer (IE) browser support
* Latest Google Chrome browser support

1. **Procedure**

The following is an overview of the various tests which will be carried out.

*3.1 Unit Tests*

Unit tests will need to be performed for the following:

1. Verify the connection with the database
2. Verify the following check constraints in the DDL are obeyed:
   1. If the breed is not null, its string length must be greater than zero
   2. The weight must be non-null, greater than zero and smaller than 500
   3. If the age is not null it must be greater than zero and smaller than 100
3. Verify that the system is protected against injection attacks

*3.2 Integration Test*

Sikuli will be used to perform integration tests for both browsers; IE and Chrome. The general idea behind an integration test is:

1. Open browser
2. Browse to client’s desired webpage:

<http://localhost:52778/Mode1/WebForm1.aspx>

1. Ensure the following:
   1. Table is being displayed correctly
   2. Insert function can be correctly carried out
   3. Update function can be correctly carried out
   4. Delete function can be correctly carried out
2. Close browser

**Appendix**

The following are instructions to install Sikuli:

1. Download sikuli-setup.jar from <http://www.sikulix.com/download.html>
2. Recommended to create a folder for Sikuli somewhere on local machine
3. Double-click sikuli-setup.jar file and follow on screen instructions to install
   1. Only need to select ‘Pack 1’ to install
4. Upon successful installation, runIDE.cmd should appear in local Sikuli folder
5. Double-click runIDE.cmd to run Sikuli