# Unit Test Plan

## Module Overview

This module will be used to log different messages throughout an application; it has the ability to log to a text file, the console and/or the database. Messages can be marked as message, warning or error. It has also the ability to selectively be able to choose what gets logged, such as to be able to log only errors or only errors and warnings.

## Pre-conditions

* Setup a database using the script at bottom.
* Setup a directory with enough permission and space to add logs files.
* Set connection parameters to database in “connection” setting into web.config file of “Web” project and app.config file of “Console” project.
* Set log file directory path in application setting “LogFileDirectory” into web.config file of “Web” project and app.config file of “Console” project.
* Set with true or false if application must log errors, messages or warnings in “LogErrors”, “LogWarnings” & “LogMessage” parameters, this parameters are in web.config file of “Web” project and app.config file of “Console” project

## Tools to test

There are two ways to test log handler functionality,

* Web: Using web application “web” load testLogger.aspx page. Console message can’t use in this version.
* Console: Using console application run “program” module. No restrictions.

## Test Data

### Positive cases

#### Web

* Introduce a message into the textbox
* Choose one message type, one option only.
* Choose where the log will be send to, multiple choices allowed.
* Press button “Send”
* Check your request according selected destination
  + Database into LogData table
  + File into a file named “LogFile” plus this date in format “yyyMMdd”
  + Console does not show it

#### Console

* Introduce a message after request “Message to show:” and press Enter key
* After request “Message type[1-Message/2-Error/3-Warning]:” introduce 1 if it is a message, 2 if it is an error or 3 if it is a warning. Press Enter key.
* After request “Log to Database [y/n]” introduce “y” if you want to log into database, otherwise “n”. Press Enter key.
* After request “Log to File [y/n]” introduce “y” if you want to log into a file, otherwise “n”. Press Enter key.
* After request “Log to Console [y/n]” introduce “y” if you want to log into console, otherwise “n”. Press Enter key.
* Finally, after message “Press enter to proceed.” Press Enter key to proceed.
* Check your request according selected destination
  + Database into LogData table
  + File into a file named “LogFile” plus this date in format “yyyMMdd”
  + Console will show the log in the same current console.
* You will be requested if you want to do another test “Press 1 to make another test or press enter to exit.”

### Negative cases

All another ways using the web or console tool.

## Script to create database

create database belatrix

go

use belatrix

go

create table LogData(

var\_Message varchar(400),

int\_Type int,

dtm\_Created datetime default getdate()

)

go

create proc LogData\_Insert

@var\_Message varchar(400),

@int\_Type int

as

begin

insert into LogData (var\_Message, int\_Type, dtm\_Created) values (@var\_Message, @int\_Type, GETDATE())

end

go