

SENG8030

Software Testing Tools

Assignment #1 – Defect Tracking Systems – due Jan 28, 2022 @ 11:59 PM 75 Marks – worth 7.5%

This is a group assignment. Do your own work and do not share your work with other teams.

Sharing work is an Academic Offense and is subject to a penalty. Be aware that all source code and other documentation is automatically checked by eConestoga upon submission.

For this assignment, we are going to use the Mantis BT defect tracking system to create defects for a software application.

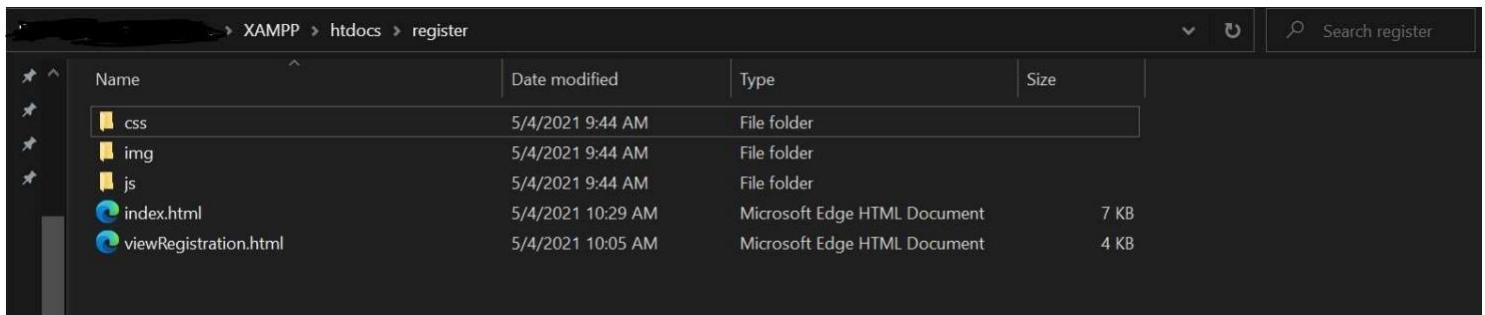
The instructions for setting up Mantis BT are in the slides of Week 01. When setting up your project in Mantis BT, please name the project as follows:

FirstName_LastName_A1

(where FirstName, LastName are your first name and last name respectively)

To assist you in logging some meaningful defects, a simple web application is available in eConestoga along with this Assignment. To use this web application, you will need to install XAMPP and run the Apache server on your PC. Instructions for this are also found below.

You will need to download and unzip the contents into the XAMPP\htdocs\register directory as follows:



Start the Apache server using the XAMPP Control Panel and then navigate to the site in your browser as follows:

<https://localhost/register/index.html>

As you're testing this application, you may encounter some defects. Your job now, is to log each defect with this application using Mantis BT. The Requirements for the web application are as follows:

- This web app allows users to register for an event called "THE Event!"
- Registrants must provide their first name, last name, address, city, province and postal code along with their phone number and email address.
- Registrants must also provide the number of participants attending and what day(s) they want to attend (either Day 1 or Day 2 or Both)
 - o Registrants attending Day 1 will be charged \$450
 - o Registrants attending Day 2 will be charged \$350
 - o Registrants attending Day 1 and Day 2 will be charged \$750 (as opposed to \$800)
- Registrants registering more than five participants will be given a 10% discount
- Links are to be provided at the top of the web app to "THE Event!", the home page, and to the main page of Conestoga College.
- The list of provinces needs to contain all Canadian provinces and territories in an increasing alphabetized drop-down list
- The Phone Number field must only accept phone numbers of the form 111-111-1111 or (111)111-1111
- The Postal Code field must only accept in the format A1A 1A1 (where A represents an alpha character A-Z and 1 represents a digit from 0-9)
- Upon registering, a new page should show:
 - o The number of participants
 - o The days they are registered for
 - o The total price (there is no tax or any other fees)
 - Users should be able to go back to the main page after registering through a link.

Once you've found all of the defects with this application, you will then submit a Word document that contains all of your found defects as individual screenshots as well as an overall view of all of the defects by Summary and Severity. Ensure that you are using at least four different Severity levels in the logging of your defects as well as at least one Feature Request/Enhancement. In terms of the number of defects to log, there isn't a specific number per se, but rather, test this web application as thoroughly as possible (to mimic what you would be expected to do in the Industry).

Provide screenshots of the "Summary" and "Summary – By Severity" reports of the defects that were logged. (You may have to install the "Mantis Graphs" plugin from the Manage | Manage Plugins screen).

After having logged your defects, analyze the defects logged from this application and provide a recommendation as to whether or not this application is ready to be released to end customers – be sure to defend your position by providing concrete examples of why or why not.

As a final point, this assignment is geared towards your practical use of a defect tracking tool to log defects and your ability to communicate with others using this tool – as such, when providing your analysis and/or recommendation, base it on your specific, individual results (as opposed to searching on the Internet).

Submissions

The format for submitting the assignment is as follows:

1. eConestoga submissions:

A single MS Word document named:

Group_Number_num_Assignment1.pdf that contains:

- i. Assignment Title Page with your name, student ID, "Assignment#1" in the title and date;
- ii. A listing of all of the defects as screenshots with the following fields properly filled in: "Reproducibility", "Severity", "Summary", "Description", "Steps to Reproduce", "Actual Result", "Expected Result" and "Attachments".
 - **[40 Marks]**
- iii. Screenshots of the Summary Reports shown by Summary and Severity
 - **[20 Marks]**
- iv. Analysis of the defects logged and a definite recommendation provided as to the disposition of the application (about one to two paragraphs).
 - **[15 Marks]**
- v. Please submit to your respective Group Lockers. Only one submission is required by the team that means one of the team member can submit the file.

Late penalties will apply for any late submissions.

A -10% penalty will be applied for any files that are zipped up or not using the correct naming format.

As this is a technical report, proper spelling and grammar will also be required and marks may be lost for reports that have poor spelling and / or grammar.

A more detailed marking scheme is shown in the Rubric associated with the Assignment Folder in eConestoga.