**6 FEATURES TO BE TESTED**

A. Graphical interface in check sheet form, for faculty advisor to view, edit and update advisee’s academic information.

B. Recommend course schedule for upcoming semester.

C. Provide alerts if advisee is at risk of deviating from advisee’s planned graduation date.

D. Keep track of advisee’s academic progress and store student academic records.

E. Generate information to help advisor’s fill out advisee forms.

F. Allow advisor to store notes about student.

G. Retrieve and update course information, semester offerings, university requirements, and department check sheets.

**7 FEATURES NOT TO BE TESTED**

A. Network security and internet access.

B. Minors are not integrated into the system, and therefore will not be tested

**8 APPROACH**

**8.1 Testing Levels**

The testing for the Student Advisement System will consist of Unit and Integration test levels. There are three modules and three developers. Each developer will be assigned a module to test that he/she did not implement themselves.

UNIT Testing will be performed by a tester who did not write the module and tests for that module. Unit test cases must be well documented (test case list, sample output, data printouts, defect information) before being accepted and passed on to the test person. All unit test information will also be provided to the test person. The test person will record their results and send them back to be analyzed and evaluated by the developer of the module.

INTEGRATION Testing will be performed by all three of the project developers. Modules should have no major defects before being accepted for integration testing.

**8.2 Configuration Management/Change Control**

All system files reside in the project’s Github repository. Github has an extensive configuration, version, and change management system. All changes, enhancements and other modification requests to the system will be handled through the Github interface, and typed out in a standard format; purpose of issue, high level description of the issue, low level description of the issue, priority level of issue (minor, major, critical ), unique ID for issue.

**8.3 Test Tools**

* CSIT Course Dependencies Graph
* CSIT Checksheets
* Browser

**8.4 Meetings**

The team will meet once every two weeks to evaluate progress to date and to identify

error trends and problems as early as possible. Additional meetings can be scheduled as required, and online communication is always available.

**8.5 Measures and Metrics**

The following information will be collected by the Development team during the testing

process. This information will be provided to the test team at program turnover as well as be

provided to the project team on a weekly basis.

1. Defects by module and severity.

2. Defect Origin (Requirement, Design, Code)

3. Time spent on defect resolution by defect, for Critical & Major only. All Minor defects

can be totaled together.

**9 ITEM PASS/FAIL CRITERIA**

The test process will be completed once the initial set of distributors have successfully

sent in reassigned sales data for a period of one month and the new EDI data balances

with the old ZIP/FAX data received in parallel. When the sales administration staff is

satisfied that the data is correct the initial set of distributors will be set to active and

all parallel stopped for those accounts.

At this point the next set of distributors will begin the parallel process, if not already doing so.

Only the initial set of distributors must pass the data comparison test to complete the testing,

at that point the application is considered live. All additional activations will be on an as

ready basis. When a distributor is ready, and their data is verified, they will then also be

activated.

**10 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS**

A. No Distributors are ready for testing at pilot initiation.

The pilot project will be delayed until at least three Distributors are ready to initiate the pilot

process. No additional elements will be added to the Reassigned Sales project during this

delay.

B. Unavailability of two EDI mail boxes.

In the event two production lines and mail box facilities cannot be obtained the current single

production line and mail box will continue to be used until a second line becomes available.

This will necessitate careful coordination between the Order Entry department and the

Reassigned Sales group.

C. Distributor PC EDI software delays.

In the event of a delay in the delivery or availability of the PC software package, the only

major delay will be in pilot testing. Unit, Integration and Systems testing can continue using

limited data until such time as the PC software is ready.

This will also add time to the lower levels of testing as full complete testing cannot be done

without reasonable amounts of data. The data can only be derived from actual transmissions

from the PC software package.