Assignment 3: Test Plan
Issued: Monday, November 8th, 2004
Due: Wednesday, November 24th, 2004 (beginning of discussion)
**Test Plan Assignment**

The Architecture and Component Design that you just submitted has been tentatively accepted by Phoenix’s management. While they review your design, they now ask you to begin the process of creating a test plan that will serve to verify that the system works as expected, your later enhancements do not break the prototype, as well as ensuring that the additional requirements are implemented correctly.

Your next deadline is **Wednesday, November 24th** and Phoenix is looking for a detailed test plan document that fully describes how the game should be verified that it satisfies the requirements and adheres to the design. Your project manager (aka TA) will hold twice-weekly meetings to guide you through the selection of test cases.

**Structure of the Test Plan Document**

The Test Plan document should have the following structure:

1. **Table of Contents**
   - Listing all relevant sections and their page numbers

2. **Introduction**
   - A short introduction of the system
   - What is this document about?
   - Who was it created for?
   - What steps were involved in determining the information contained in this document?

3. **Overall Test Plan**
   - Explain and justify the overall testing strategy that will be used
   - Provide a rationale, with advantages and disadvantages, of the specific testing methodology
   - Describe the format of your test cases.
     - Must include expected inputs and outputs
     - Must include rationale (purpose) for the test
   - Describe the approach to running the enclosed test cases
   - Describe how the test case results should be stored for later analysis
   - Describe how a test case is determined to succeed or fail

4. **Acceptance Test Plan**
   - What test cases are required to have a successful system?
     - Focus on the high level attributes of the game
     - Focus on test cases for new functionality
   - **Suggestion:** Four test cases

5. **Component Test Plan**
   - What test cases are required to validate the components?
     - Focus on boundary condition and events
6. Regression Test Plan
- What test cases will ensure that nothing is broken?
  - Focus on cases that are currently broken or might easily be broken by your changes
- Suggestion: Four test cases

7. Test Case Matrix
- For each of your test cases in “Acceptance Test Plan” on page 2 and “Component Test Plan” on page 2 and “Regression Test Plan” on page 3, provide the status of the test case with respect to the current prototype.

8. Definitions of Terminology
- Precise definition of terms used throughout the project

9. Reference documents
- Pointers to existing literature and tools
- Pointers to other similar software

Submission Criteria
You must submit a hard copy at the beginning of discussion that follows these guidelines, and you must also submit an electronic copy to the course EEE DropBox.

Printed Criteria
The printed copy of your test plan that you turn in for credit must include:
- Page numbers at the bottom of each page
- Double-spacing for all paragraphs
- Use proportional font similar to either Times (New Roman) or Arial.
- Major section headings in 14 point, subsection headings in 12 point, and body text in 12 point.
- One inch margins around the page
- (Optional) Duplex (two-sided) printing is acceptable
- Stapled once in the upper left hand corner, no binders, no plastic covers.
Klax Test Plan
by:
Your_First_name Your_Last_name
{UCINetID: i.e. panteater@uci.edu}
ICS 52
Instructor: Dr. Richard N. Taylor
Fall 2004

Electronic Criteria
You must submit your electronic version of your requirements document via the EEE DropBox entitled: ICS 52 HW #3. The documents must be compressed via ZIP before submission. Word or PDF documents accepted. Other formats accepted by prior arrangement only.

Grading
The test plan should be clear, easy to understand, easy to verify, and easy to change. Apply the software engineering principles introduced in the lectures and found in the textbook.

The grading of this assignment will be broken down as follows:
20%. Completeness of your acceptance test plan
20%. Completeness of your component test plan
20%. Completeness of your regression test plan
30%. Accuracy of test case matrix
10%. Documentation of your testing process

As a whole, this assignment counts 10% towards your final grade for the course.

Note:
• Do not work in teams to complete this assignment
• No late assignments will be accepted