

# GUI Client Design Inspection

## ***FANG***

Postlab 7

Revision 2

FLANCREST ENTERPRISES

CS 340 Group 22

March 27, 2002

## Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Inspection Checklist</b>	<b>1</b>
2.1	Appearance . . . . .	1
2.2	Content . . . . .	1
<b>3</b>	<b>Appearance Inspection</b>	<b>2</b>
<b>4</b>	<b>Content</b>	<b>2</b>

## Approval

We, the members of Flancrest Enterprises, accept this document as representation of our work for the past week and agree that fair contributions to this project have been made by all whose signature appear below.

<b>Name</b>	<b>Signature</b>
Chris Frost	_____
Emilio Lahr-Vivaz	_____
Scott Rein	_____
Thomas Whanger	_____

## Pledge

On our honor as students of University of Virginia, we pledge that we have neither given nor received aid on this assignment.

<b>Name</b>	<b>Signature</b>
Chris Frost	_____
Emilio Lahr-Vivaz	_____
Scott Rein	_____
Thomas Whanger	_____

## 1 Introduction

System design is essentially the blueprint of the system as a whole. In addition, the design document is used later to develop the system. Therefore, the design has to look professional, while giving an accurate and thorough depiction of the system. In order to achieve this quality in the design, we conducted a rigorous inspection. First, a checklist was constructed with questions to make sure everything was in there, updated, correct, and looking professional. See section 2 for a sample checklist. Next, every Flancrest employee used the checklist to inspect the design, and had a discussion on how the document could be better.

## 2 Inspection Checklist

Please make any comments that come to mind while completing the checklist.

### 2.1 Appearance

- Is the document's structure comprehensive (face page, approval, contents, etc.)
- Is the document's appearance professional?
- Is the font consistent and readable?
- Are the included diagrams legible and labeled correctly?

### 2.2 Content

- Is the high-level overview in natural language and understandable?
- Is the Static structure explained using a UML class diagram? is it understandable and accurate?
- Are all class interfaces included and do they reflect the class diagrams?
- Do comments document what design decision each class is hiding?
- Does each member function include a comment explaining the purpose of the function and what each parameter is for?
- Do the use cases accurately show scenarios for only the most important system behaviors?
- Are the use case diagrams helpful, understandable, and accurate?
- Are the sequence diagrams understandable and accurate? Do they reflect the system's object interactions?
- Is there any unnecessary natural language?

### 3 Appearance Inspection

This section of the inspection was fairly easy due to the fact that we used Latex instead of Microsoft Word. With Latex, our documents have consistent fonts and spacing. Also, the documents always contain facepages, a table of contents, a pledge page, and an approval page. The most time consuming part of this section was finding a correct width for each of our diagrams, so they can all be readable. Once this was completed, we knew the document had a consistent professional appearance.

### 4 Content

This section of the inspection was much more involved than the appearance section because there had been some changes since the first revision of the design document. There were many significant changes within the Robot Class, and the GUI class was now called the CFangDlg Class, as well. This led to many aspects of the design document to be out of date. For example, the static structure diagram, use cases, use case diagrams, and sequence diagrams all needed to be updated. In addition, the section on likely changes did not have accurate information on why it was easy to fix these likely changes. Therefore, we discussed how we could fix the changes, then updated the section accordingly. Finally, after the checklist and discussions ended, we knew the information given in the design document was updated, accurate, and necessary. Thus, our design inspection process was complete.