**Steganography Phase** III

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**Overview**

In week 7, our group has been focusing on testing, bug fixes, and minor improvements to the code. All features have been implemented. We are currently on schedule. Specific milestones and their status are listed in the table below.

Phase III (Week 7) Milestone Status Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Scope** | **Milestone** | **Status** | **Notes** |
| Week5-6 | Main GUI | complete |  |
| Week5-6 | Popup windows | complete |  |
| Week5-6 | ImageObject Class | complete |  |
| Week5 | File Input | complete |  |
| Week5-6 | File Output | complete | JPEG compression disabled due to message corruption when images are compressed. JPEG images can be saved with the .jpeg extension but will not be compressed. |
| Week5 | Message conversion | complete |  |
| Week6 | Image encoding | complete | Will need to refactor to simplify some of the code. |
| Week6 | Image decoding | complete |  |
| Week6 | Image reset | complete |  |
| Week6 | Image save | complete |  |
| Week7 | Test plan updated |  |  |
| Week7 | ImageObject unit tests | complete |  |
| Week7 | Message conversion utility unit test | complete |  |
| Week7 | Front end unit tests |  |  |
| Week7 | Manual Integration tests |  |  |

**Problems Encountered and Reevaluation of the Decisions**

We are unable to implement unit testing for some parts of the application due to some design choices. Notably, exception testing cannot be automated for methods which handle their own exceptions instead of passing the exception to the caller. A major refactor would be required to fix this issue which may affect our ability to deliver on time. We currently intend to press forward with manual testing the exceptions.

**Changes of the previous document**

The test plan has been completely updated. We have added a table of automated tests, removed some redundant tests, updated some testing criteria to align with changes in the design and implementation, and added columns to record test results and figure numbers.

**Phase III Results**

* screen shots of each major feature
* screen shot of unit tests passsing