

Stenographer Module Design View

UI:	
Handle Button Action	
• Input:	The button that was pressed
• Output:	The appropriate method called, returned, and UI updated accordingly.
One of the Load Buttons Pressed (4 scenarios)	
• Input:	The button that was pressed
• Output:	The image or text loaded into the program and displayed from the appropriate location in the UI.
• Uses:	File Library's: Load Image or File Library's: Load Text
One of the Save Buttons Pressed (4 scenarios)	
• Input:	The button that was pressed
• Output:	The image or text saved to the computer.
• Uses:	File Library's: Save Image or File Library's: Save Text
One of the Clear Buttons Pressed (5 scenarios)	
• Input:	The button that was pressed
• Output:	The image(s) and/or text removed from the program and the UI updated.
Composed Button Pressed	
• Input:	The button that was pressed
• Output:	The composite image created in program memory from the cover and hidden images and the composite image view in the UI updated to display it.
• Uses:	The Cover Image stored in the program, The Hidden Image stored in the program, Image Comp's: Images to Composite
Decomposed Button Pressed	
• Input:	The button that was pressed
• Output:	The Cover and Hidden images stored in program memory from the decomposition of the composite and the UI updated to display them.
• Uses:	The Composite image stored in the program, Image Comp's: Composite to Images

Image To Text Button Pressed

- Input: The button that was pressed
- Output: The text area of the UI updated to display the text decryption of the Hidden image stored in memory.
- Uses: The Hidden image stored in the program,
Text & Image's: Image to text

Text To Image Button Pressed

- Input: The button that was pressed
- Output: and The Hidden image in memory updated to the encrypted version of the text
the hidden image view in the UI updated to display this image.
- Uses: The Cover image stored in the program(need to clarify?),
Text & Image's: Text to image

Stenographer**Text to image**

- Input: A String containing the message,
The desired width of the image,
The desired height of the image
- Output: An Image of the String with the width and height given

Image to text

- Input: An image of the encrypted string
- Output: A String of the message encrypted in the image

Images to Composite

- Input: The cover image,
The image to hide in the composite
- Output: A image that is the composite of the first 2 images

Composite to Images

- Input: A image to be decomposed
- Output: A two element array containing the cover image and the hidden image

File Library:

Load Image

- Input: A string describing the file path of the image to open
- Output: The image in the file or null if an error occurred
- Uses: A File Chooser

Save Image

- Input: The image to save,
A string describing the file path to save the image to
- Output: True if a save occurred, false otherwise
- Uses: A File Chooser

Load Text

- Input: A string describing the file path of the text to open
- Output: The text in the file or null if an error occurred
- Uses: A File Chooser

Save Text

- Input: A String containing the text to save,
A string describing the file path to save the text to
- Output: True if a save occurred, false otherwise
- Uses: A File Chooser

Test class

Test Text To image and back

- Input: A String
- Output: True if the conversion was successful, false otherwise
- Description: Converts the string to an image and then converts the image back to a string and compares the resulting string with the initial string
- Uses: Text & Image's: Image to text
Text & Image's: Text to image

Monkey Test UI

- Input: A batch of random key presses and mouse clicks sent to the UI
- Output: Any exceptions that occurred
- Uses: The UI and all classes it depends on

Ext...