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**Task Breakdown**

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| --- | --- |
| File/Class Name | Class description, Attributes, Functions |
| nh\_G40A04 | **This file will be the interface for the game. It will include the QuoteManager, Logic, and exceptions class. It will handle user input and display the updated guessed quote.** |
| Exceptions | **There is where I will have all my exceptions for the game** |
| CryptpgramGameLogic | **Attributes:**   * **game\_time**   **Functions:**   * **check\_guessed\_letter** * **check\_quessed\_quote** * **update\_quote** * **get\_hint** * **is\_win** |
| Quote | **Attributes:**   * **quote** * **quote\_encoded** * **ascii letters** * **mixed ascii letters**   **Functions:**   * **encode\_letter** * **decode\_letter** * **encode\_quote** * **decode\_quote** |
| QuoteManager | **In this class I will have my HTMLParser and will scrap the quotes from the site provided. It will include a quotes dictionary with Quote objects. It will also get a random quote from the dictionary of quotes.** |

**Test Case Scenarios for Cryptogram Game**

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| --- | --- | --- |
| Scenario | Input | Expected Result |
| 1. Entered a guess that has a decoded letter, a space, and a letter to replace it | >>>Z A | The decoded letters and guessed letters reprinted |
| 1. Entered a guess that has a decoded letter, no space, and a letter to replace it | >>>ZA | Error Message: Please enter the decoded letter and a letter to replace it with a space in between. |
| 1. Entered a guess that has a decoded letter, a space, and more than one letter to replace it | >>>Z AB | Error Message: please enter the decoded letter to replace and ONE letter to replace it with, with a space in between. |
| 1. Entered a guess that has a decoded letter, a space, and an invalid character. | >>>Z \* | Error Message: Invalid character, please enter the decoded letter to replace and a letter to replace it with, with a space in between. |
| 1. Entered a guess that only has a decoded letter. | >>>Z | Error Message: Invalid guess, please enter the decoded letter to replace and a letter to replace it with, with a space in between. |
| 1. Entered a guess that has numbers | >>>123 | Error Message: Invalid guess, please enter the decoded letter to replace and a letter to replace it with, with a space in between. |
| 1. Entered nothing | >>> | Error message, please enter the decoded letter to replace and a letter to replace it with, with a space in between. |
| 1. Entered a guess that has a decoded letter, a space, and an underscore | >>> Z \_ | Replaces all the Z’s to \_ in the guessed quote. |
| 1. Entered a guess that has a decoded letter, a space, and a number | >>> Z 1 | Error message, please enter the decoded letter to replace and a letter to replace it with, with a space in between. |
| 1. Entered a guess that starts with a number, a space, and a letter | >>> 1 Z | Error message, you convert a number to a letter. Please try again |
| 1. Receive a hint | >>>? |  |
| 1. Find all mistakes | >>>! |  |