red = not completed

orange = in progress + amount done + date

green = completed + date completed

**Basic Software - Text**

1. Ability to encrypt and decrypt 26/10/23

**1.1.** Ability to enter both plaintext and ciphertext 26/10/23

**1.1.1.** Ensure text is not empty or contains invalid characters 07/11/23

**1.1.2.** Have error messages when message is invalid 07/11/23

**1.1.2.1.** Check for empty text on attempt to encrypt/decrypt to avoid constant triggering of the error while text inputs are empty

07/11/23

**1.1.2.2.** Check for invalid characters in either plain or cipher text whenever modified 07/11/23

**1.1.3.** Do not allow program to progress if text is invalid 08/11/2023

**1.2.** Ability to view both plain and cipher text simultaneously 26/10/23

1. Ability to choose algorithm used 26/10/23

**2.1.** Dropdown Menu 26/10/23

**2.2.** Changing Functionality based on choice 40% 13/11/23

1. Ability to choose key 26/10/23

**3.1.** Key Validation 08/11/23

**3.1.1.** Don’t let program progress if key not valid 07/11/23

**3.1.2.** Have error messages when key is invalid 07/11/23

**3.1.3.** Check whenever key is modified 08/11/23

**3.2** Key input should scale to the size of the key 08/11/23

1. Ability to randomly generate key 27/10/23

**4.1.** Must generate valid key for algorithm used 40% 13/11/23

**4.2.** Key security is to the discretion of the user 27/10/23

**4.2.1.** Ability to generate another random key if user does not like previously generated key 27/10/23

**Basic Software - Non-Functional Requirements (kind of)**

1. Customise font style 08/11/23

**1.1.** Choose from list of predefined fonts 08/11/23

**1.2.** Choose font size from list of sizes 08/11/23

**1.3.** Choose font weight (bold or normal) 08/11/23

**1.4.** Choose font slant (italic or roman) 08/11/23

**Basic Software - Rating**

1. Ability to Score Algorithms 40% 13/11/23

**1.1** Generate Figures on all specified in [Scoring Algorithm](https://docs.google.com/document/d/1x8oBOC4nBP271JJj1JvewRFNFvA8ph6BGIs16ouSA38/edit?usp=drive_link) 13/11/23

1. Button to press that runs tests on 10 predefined testing messages 13/11/23
2. Window to view all scoring information of algorithms 13/11/23
3. Automatic report creation on testing 13/11/23

**4.1** Make it autocreate names? i.e “CeaserShiftReport1”, “CeaserShiftReport2”

13/11/23