|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functional Requirement | Description | Priority | Test | Requirement fulfilled |
| Create a SMS | User can create a SMS message | Must | SMSTest() | Yes |
| Create a Tweet | User can create a Tweet | Must | TweetTest() | Yes |
| Create an Email | User can create an Email | Must | EmailTest() | Yes |
| Specify message type | User can specify the message type | Must | User Testing | Yes |
| Create a SIR | User can create a SIR | Should | SIRTest() | Yes |
| Replace abbreviations with full words | Replace abbreviations like ‘LOL’ with their full version (‘Laughing out loud’ in this case) for SMS and Tweet messages. | Should | keywordTest() | Yes |
| Remove URLs from Emails | URLs in Email messages should be replaced with ‘<URL Quarantined>’ | Should | URLTest() | Yes |
| View processed message | User can view the message | Should | User Testing | Yes |
| Output the processed message to JSON file | The message must be written as an entry in a JSON file after processing | Should | JSONOutTest() | Yes |
| Create and show a list of SIRs, quarantined URLs, hashtags and mentions | All SIRs, quarantined URLs, hashtags and mentions used in the current message session should be shown on screen at the end of the session | Could |  | NO |
| Load input from file | Ideally, the system should be able to load input from a file | Should |  | NO |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Non-Functional Requirement | Description | Priority | Test | Requirement fulfilled |
| Message IDs consist of a letter followed by 9 digits | The letter should be S for SMS, E for Email or T for Tweet. | Should |  | NO |
| Message IDs should be unique | A unique ID allows the message to be uniquely identified. | Should |  | NO |
| Phone numbers have character limits | The value should be a number between 8 and 16 digits. | Should | phoneNumTest()  noPhoneTest() | Yes |
| Messages should adhere to a character limit | SMS messages and Tweets should go up to 140 characters, Emails can be up to 1028 characters – it was assumed that this included the sort code and nature of incident for SIRs. | Should | smsLimTest()  tweetLimTest()  emailLimTest() | Yes |
| Email addresses should be validated | Email addresses should be checked to ensure they are valid. | Should | eAddressTest()  noEAddressTest() | Yes |
| Subject should be available when writing emails, with a character limit. | The subject input should be available for emails, with up to 20 characters. | Should | User Testing | Yes |
| The subject for SIRs should be  ‘SIR dd/mm/yy’ | Where the date is the date when the message was processed. The subject textbox should be disabled so that it cannot be modified. | Should | noSubjectTest()  subjectLimTest() | Yes |
| TwitterIDs have a character limit and start with ‘@’ | Up to 15 characters plus the ‘@’. | Should | AtIDTest()  TwitIDLimTest()  noIDTest() | Yes |
| The sort cade and nature of incident should be in the SIR body. | The first 2 lines of an SIR body should be sort code and nature of incident respectively. The format of the sort code should be validated and the nature of the incident must match one of the possible options. | Should | SIRSortCodeTest()  SIRNOITest() | Yes |