

## RFC Compliance

- **HELO**  
The 'HELO' command is used to specify the domain name that the client wishes to identify by. I have implemented this at the beginning of my code where the client and server initially connect. The client must enter a valid domain name in the correct format or else they cannot progress. Example 'HELO <domain.test>'.
- **MAIL FROM**  
The 'MAIL FROM' command is used to specify the email address of the client that wishes to send an email. I have implemented this after the HELO method. The client must enter a valid email address in the correct format or else they cannot progress. The client is only capable of inputting one email address per loop. Example 'MAIL FROM:<mail@from.test>'.
- **RCPT TO**  
The 'RCPT TO' command is used to specify an email address the sender wishes to send an email to. The client can enter as many emails as they wish. The client must enter a valid email address in the correct format or else an error will be produced. The client must enter at least one valid email address that they wish to send a message to. I implemented this after the MAIL method. Example 'RCPT TO:<rcpt@to.test>'.
- **DATA**  
The 'DATA' command enables the client to start the body of the email. This has no boundary length or limit to what they can enter. The client will enter 'DATA' once they have entered all the valid email addresses they would like to send a message to.
- **TERMINATION (.)**  
The termination command specified by the '.' character on a new line means the client wishes to finish the body of the email and send the email to the recipient(s).
- **NOOP**  
The 'NOOP' command is used to enable the client to see if they are still connected to the server or not. This command can be used at any point within the solution.
- **RSET**  
The 'RSET' command is used to enable the client to restart and go back to the MAIL method. This clears the private variables that stored all the details relating to the sender's email, recipient(s) email, the subject and message. This command can be used at any point within the solution.
- **HELP**  
The 'HELP' command is used to enable the client to see all the possible commands they can use. This is formatted to display to the user the description of the command, the syntax needed to perform the command and a brief explanation of what the command does. This command can be used at any point within the solution.
- **QUIT**  
The 'QUIT' command is used to terminate the connection between the client and the SMTP server. This command can be used at any point within the solution.
- **Server responses**  
Depending on what the client sends to the server, the server will send code responses/information to indicate if the command has succeeded, failed or if there is an error.