

Req_159: Email shall be sent to any valid email address from To, Cc, and/or Bcc address lines
Assumptions:

- 1) User email is user@test.com, test control emails are test1@test.com, test2@test.com, and so on.

Test Procedure:

Step 1: Log into/ identify the server for testing.

Step 2: Run the testing code send email with the correct server.

Step 3: Ensure the code runs properly and reports that there were errors in sending to the invalid_address emails only.

Test Automation:

```
import smtplib, ssl
import imaplib
import email
import os
```

```
def send_email(imap_ssl_host):
```

```
    # Accessing the server
    server = imaplib.IMAP4_SSL(imap_ssl_host)
```

```
    # Identifying the emails to send to including invalid emails that it should not send to
    user_email = user@test.com
    send_to = ['test1@test.com', test1a@test.com, invalid_address1@com']
    send_cc = ['test2@test.com', test2a@test.com, invalid_address2.com']
    send_bcc = ['test3@test.com', test3a@test.com, invalid_address3']
```

```
    # Creating the message and data for the message
    message= MIMEMultipart('alternative')
    message['Body']=""'\This is a test.'""
    message['Subject']="Test"
    message['To']=send_to
    message['Cc']=send_cc
    message['Bcc']=send_bcc
```

```
    # Splitting the addresses and combining into one list for sending
    send_total= send_to.split(',') + send_cc.split(',') + send_bcc.split(',')
```

```

# Sending the message
try:
    server.sendmail(user_email, send_total, message.as_string())

#Checking that the message is sent but only to the valid email addresses
except ssl.SMTPConnectionError:
    print(_logger.exception('SMTP Connection failed to %s on %s' % (host, port)))
except Exception as e:
    print(e)

```

Req_42: All email addresses identified as spam by the user shall be automatically sent to the spam folder

Assumptions:

- 1) User email is user@test.com, test control email is test@test.com and spam test email is spam@test.com. The user has identified spam@test.com as spam.
- 2) The backend application has access to the folders spam and inbox.

Test Procedure:

Step 1: Log into the user@test.com email.

Step 2: Identify spam@test.com as a spam email address.

Step 3: Run the spam_test function with local server.

Step 4: Ensure that no error messages print and that “Test email was received in inbox” and “Spam email was received in spam” are returned.

Test Automation:

```

import smtplib, ssl
import imaplib
import email
import os

```

```

def spam_test(imap_ssl_host):
    server = imaplib.IMAP4_SSL(imap_ssl_host)

    # Sending test emails that should reach inbox and spam
    sending_email = 'test@test.com'
    spam_email = 'spam@test.com'
    receiving_email = 'user@test.com'

```

```

message= MIMEMultipart('alternative')
message['Body'] = """"\This is a test.""""
message['Subject']="Test"
message_spam= MIMEMultipart('alternative')
message_spam['Body'] = """"\This is a test for spam.""""
message_spam['Subject']="Test Spam"

try:
    server.sendmail(sending_email, receiving_email, message.as_string())
    server.sendmail(spam_email, receiving_email, message_spam.as_string())
except Exception as e:
    print(e)

# Access receiving email
server.login(receiving_email, password)

# Accessing the Inbox
server.select('Inbox')

# Checking if the test email was properly received in the inbox, printing error if not
result, data = mail.search(None, '(FROM "test@test.com")')
if data:
    print("Test email was received in inbox")
else:
    print("Error: Test email was NOT received in inbox")
# Checking if the spam test email incorrectly ended up in inbox
result, data = mail.search(None, '(FROM "spam@test.com")')
if data:
    print("Error: Spam email received in inbox")
# Switching to the spam folder
server.select('Spam')
# Checking if the spam test email was properly received in spam, printing error if not
result, data = mail.search(None, '(FROM "spam@test.com")')
if data:
    print("Spam email was received in spam")
else:
    print("Error: Spam email was NOT received in spam")
# Checking if the test email incorrectly ended up in spam
result, data = mail.search(None, '(FROM "test@test.com")')
if data:
    print("Error: Test email received in spam")

```