

國立臺南大學

資訊工程學系

網路程式設計

郵件收發系統

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一、 問題描述與系統目標

1. 問題描述

設計一個上課投影片的程式碼為基礎，以圖形介面開發郵件接收的系統：以 SMTP 發送 EMAIL，以 POP3 接收信件。

2. 系統目標

應至少包含以下之功能：

- (1) 可編寫郵件、並同時發送給多人
- (2) 可回覆、轉寄郵件。
- (3) 可接收郵件，且對郵件管理提供儲存、查詢、刪除等功能。
- (4) 依上課所給程式碼進行 LOGIN 認證。

二、系統設計與功能報告

1. 將郵件收發系統的視窗開啟，介面如下

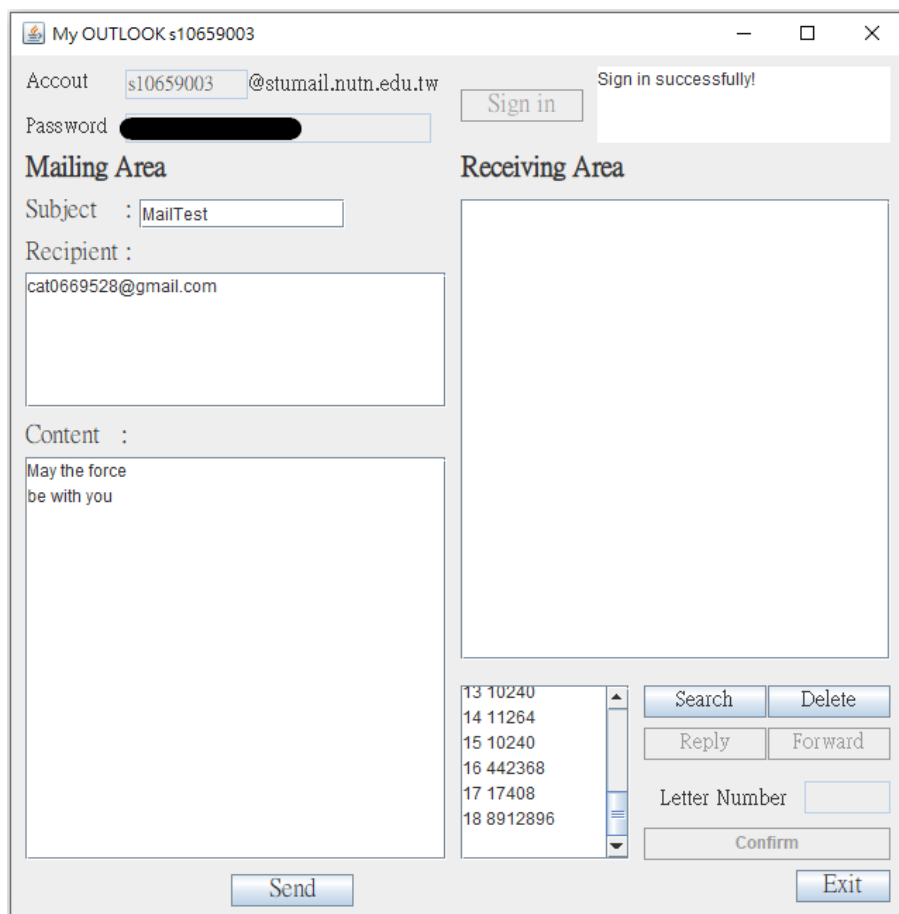
The screenshot shows the 'My OUTLOOK' application window. At the top, there is a title bar with the text 'My OUTLOOK' and standard window controls. Below the title bar, there is a login section with two input fields: 'Account' (containing '@stumail.nutn.edu.tw') and 'Password'. A 'Sign in' button is to the right of the password field. Below the login section, the window is divided into two main areas: 'Mailing Area' on the left and 'Receiving Area' on the right. The 'Mailing Area' contains fields for 'Subject', 'Recipient', and 'Content', along with a 'Send' button at the bottom. The 'Receiving Area' is currently empty. At the bottom right of the window, there are several buttons: 'Search', 'Delete', 'Reply', 'Forward', 'Letter Number' (with a dropdown arrow), 'Confirm', and 'Exit'.

2. 首先是要輸入信箱帳密，此限定在南大郵件系統進行登入 確認連上後，會在視窗顯示當前的郵件封數讓使用者知道

The screenshot shows the 'My OUTLOOK' application window after a successful login. The title bar now includes the user ID 's10659003'. The 'Account' field now contains 's10659003@stumail.nutn.edu.tw'. The 'Password' field is masked with black dots. A 'Sign in' button is still present, and a message 'Sign in successfully!' is displayed in the top right corner. The 'Mailing Area' and 'Receiving Area' remain the same. However, the 'Letter Number' dropdown menu is now expanded, showing a list of email IDs: 13 10240, 14 11264, 15 10240, 16 442368, 17 17408, and 18 8912896. The 'Send' button is still at the bottom of the 'Mailing Area', and the 'Search', 'Delete', 'Reply', 'Forward', 'Confirm', and 'Exit' buttons are still at the bottom right.

3. 接續著使用寄信部分的功能，在主旨、收件人、信件內容進行輸入準備寄信

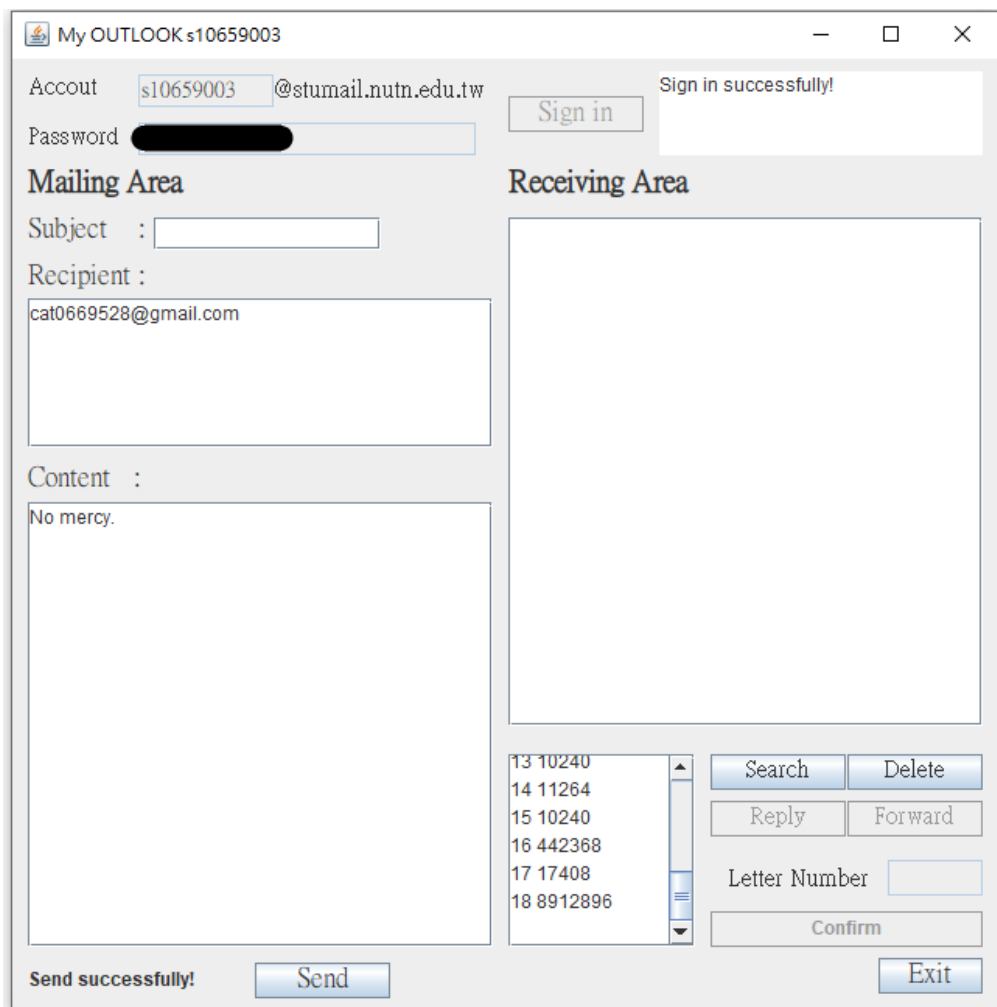
(1) 在每項目都輸入正確的資訊，收件人與內容都可輸入多行，寄信可一次寄給多人



收件人的部分



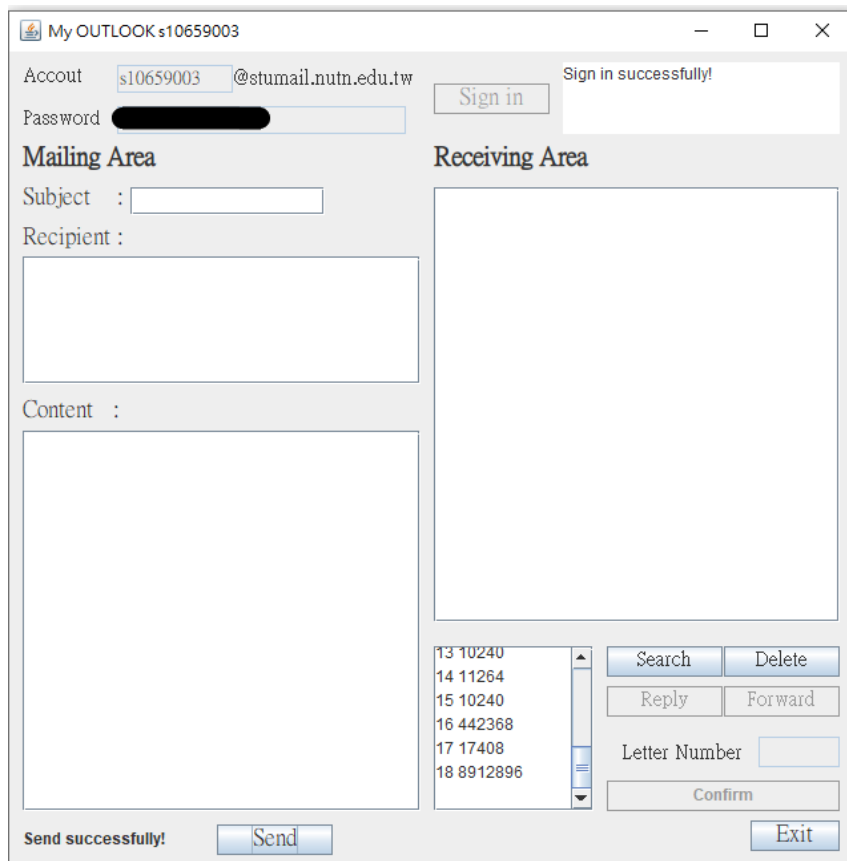
(2) 在主旨部分若使用者忘記或未輸入，會自動用預設的(No Subject)作為主旨



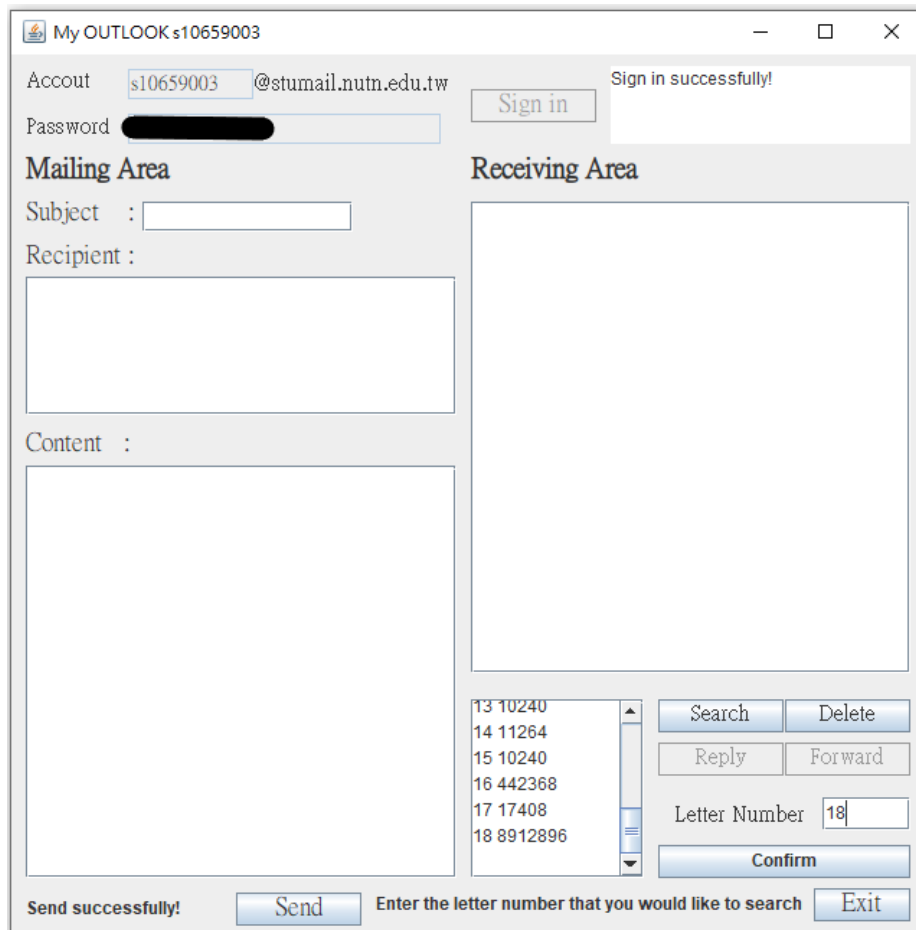
收件人的部分



(3) 信件確認完要傳送的訊息無誤後，點選 Send 按鈕寄出，同時也會在左下方顯示成功的訊息



4. 在視窗右半部的收信，用 Search 按鈕來查看小窗格的郵件編號中欲察看的信件
(1) 在點選完按鈕後，在框中輸入想查詢的對象編號後點選 Confirm 進行查看



(2) 進行處理過後，在右邊的文字方框中出現該封信件的內容(未經解碼的)

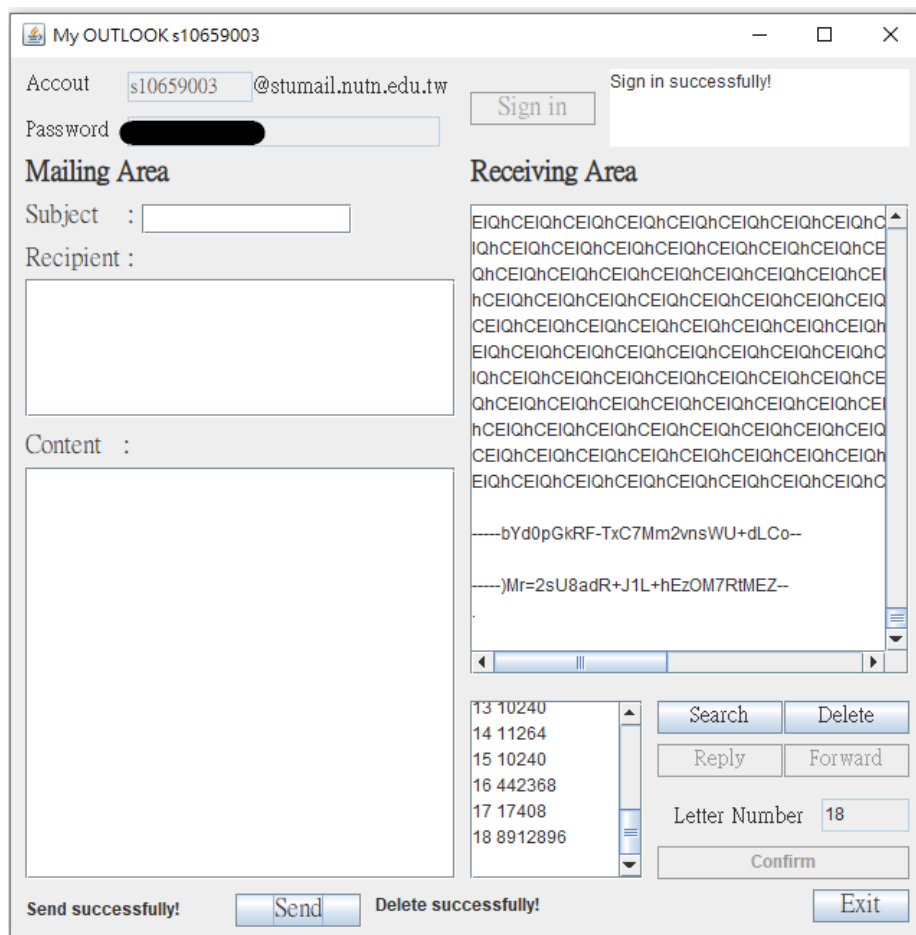
The screenshot shows the 'My OUTLOOK s10659003' window. The 'Account' field is 's10659003@stumail.nutn.edu.tw' and the 'Password' field is masked. The 'Sign in' button is active, and a 'Sign in successfully!' message is displayed. The 'Mailing Area' has fields for 'Subject', 'Recipient', and 'Content'. The 'Receiving Area' displays a list of messages with the following IDs: 13 10240, 14 11264, 15 10240, 16 442368, 17 17408, and 18 8912896. The 'Letter Number' is set to 18. The 'Confirm' button is visible at the bottom right of the 'Receiving Area'.

5. 除了查詢外，也可點選 Delete 按鈕進行刪除信件的动作

(1) 點選 Delete 按鍵後，在框中輸入想刪除的對象編號後點選 Confirm

The screenshot shows the 'My OUTLOOK s10659003' window. The 'Account' field is 's10659003@stumail.nutn.edu.tw' and the 'Password' field is masked. The 'Sign in' button is active, and a 'Sign in successfully!' message is displayed. The 'Mailing Area' has fields for 'Subject', 'Recipient', and 'Content'. The 'Receiving Area' displays a list of messages with the following IDs: 13 10240, 14 11264, 15 10240, 16 442368, 17 17408, and 18 8912896. The 'Letter Number' is set to 18. The 'Confirm' button is visible at the bottom right of the 'Receiving Area'.

(2) 進行處理過後，在下方出現了刪除成功的訊息



同時也在收件匣裡減少了一封信



三、 参考文献

SMTP_and_POP.pptx

Base64.class