

COMP3322A Modern Technologies on World Wide Web

Assignment 1: A Simple Webmail System

Marking Scheme

Total mark is 100.

Task 1 (15 marks) Create basic webmail.html and app.js

(1) Layout (9 marks):

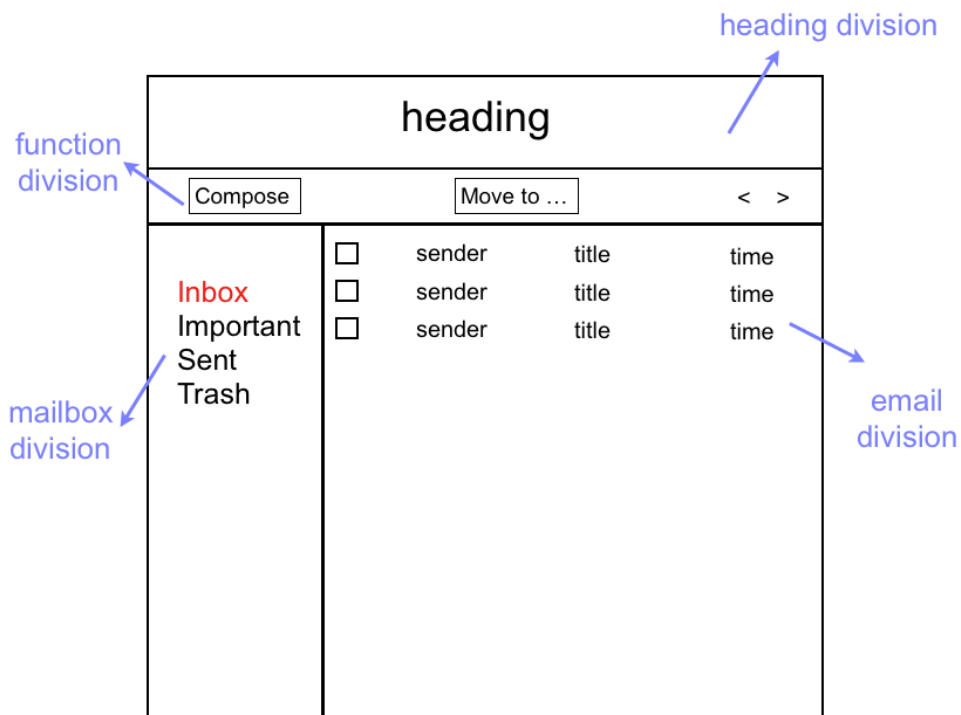


Fig. 1

Division	Marks
Heading division	1
Function division	4
Mailbox division	2
Email division	2

(2) Server side (6 marks):

Requirements	Marks
1. Create database	3
2. Load modules and add middlewares	2
3. Allow server to run at port 8081	1

Task 2 (25 marks) Display the email list

Requirements	Marks
1. When webmail.html is first loaded, load your specified number of emails in the Inbox in the email division, and order them in reverse chronological order.	6
2. When a mailbox link in the mailbox division is clicked, retrieve your specified number of the newest emails in the corresponding mailbox from the server side and display them in the email division, order them in reverse chronological order, and display the corresponding function buttons in the function division.	6
3. Whenever "<" or ">" is clicked, newer or older emails in the corresponding mailbox (of your specified number) will be retrieved and listed in the email division.	3
4. Display the dropdown list containing different contents after clicking "Move to ...", and different colors on the mailbox links when the page is showing different mailbox views.	3
5. app.js: HTTP GET requests for http://127.0.0.1:8081/retrieveemailist.	7

Task 3 (15 marks) Display email content

Requirements	Marks
1. Display the content in the email division, replacing the email list	3
2. When "<" or ">" is clicked, the content of the previous email or the next email in the same mailbox will be retrieved and displayed.	4
3. app.js: HTTP GET requests for http://127.0.0.1:8081/getemail.	8

Task 4 (20 marks) Move emails

Requirements	Marks
1. After you select some emails in the email list and select an entry in the drop-down	4

list of “Move to ...”, a request will be sent to the server to update the “mailbox” field	
2. Remove the selected email entries from the email list display in the email division, and append the newly retrieved email entries to the bottom of the list	4
3. Correctly handle moving mail on an email content page view	4
4. app.js: HTTP POST requests for http://127.0.0.1:8081/changemailbox	8

Task 5 (15 marks) Compose new email

Requirements	Marks
1. Correct display when the “Compose” button is clicked.	3
2. When “Send” is clicked, a request should be sent to the server side for inserting a new email document.	2
3. Correct display after receiving response from the server side.	3
4. app.js: HTTP POST requests for http://127.0.0.1:8081/sendemail	7

Task 6 (10 marks) Style the page using CSS

Requirements	Marks
1. Use CSS styling you choose to make your page look nice with good layout	5
2. Implement Responsive Web Design to make your page look nice on screens of different sizes	5