Very Important note:

Eclipse workspace is in :

C:\

Project directory:

C:\eclipseWorkspace\ MailServer-assignment 8

The folder that the program reads the file from:

C:\eclipseWorkspace\MailServer-assignment 8\src\system

The folder where the resourses of project:

C:\eclipseWorkspace\MailServer-assignment 8\src\ resources

Description:

First of all user enter the server and click on sign up if it’s the first time enter the server or sign in if he /she sign up before.

\*\*Function compose email: this function is responsible for sending email

And user send an email through it.

\*\*Function set viewing options: this function responsible for

1-Handling mails in folders: we make it as follows

we create folder called system folder inside it folder for each user by its email address and inside it folders as:

-Sent: Hold mails that user sends.

-Inbox: Hold mails that user receives.

-Trash: Hold mails that user deletes.

-Drafts: Hold mails that user wants to draft it and we make it optional for user.

-Contacts: Responsible for contacts manipulation and holds inside it names of user’s friends in each line in index file and also we make it optional for user while sending an email.

Folders like sent, inbox, trash & drafts we put mail inside these folders as follows:

We put email address of user then we put separator “#” then we put email addresses or receivers and between each address and another space “ “ to recognize then then separator “#” then we put subject then we put separator “#” then we put date and time then separator “#” then we put priority number as we make it optional for user choose it while sending mails then separator ”#” then we put attachments and between each attachment and another we put separator “~” to recognize them. Since each line in index file can hold limited characters so we make assumption as follows:

We make another folder called by subject and date that email holds and inside it one file for message or “email body” and another files for attachments. we make file for each attachment.

2-Sorting mails: we do it by two strategies:

-First: do sorting on priority number of mail using priority queue.

-Second: do sorting on another components of mails using quick sort

3-Searching: using binary search algorithm.

\*\*Function list mails: it lists 10 mails and show them for user.

\*\*delete emails: for deleting.

\*\*move emails: for copying mails from folder to another.

Sample runs:

صورة تحتوي على أسود

تم إنشاء الوصف تلقائياً

صورة تحتوي على لقطة شاشة

تم إنشاء الوصف تلقائياً

صورة تحتوي على لقطة شاشة

تم إنشاء الوصف تلقائياً

Pseudo code:

\*\*Sign in:

If (email address &password found) then enter site.

Else user cannot enter site.

\*\*Sign up:

If (user enter username& email address& password) then use function write line in file to save this information.

Else give an error.

\*\*Compose:

If (user wants to send an email) then check

If (receivers valid) then send an email.

Else cannot send email.

\*\*I Mail list:

If (user wants mails to be listed) then return at least 10 mails.

\*\*Move mails:

If (user wants mails to be moved) then use this function.

\*\*Delete mails:

If (user wants mails to be deleted) then use this function.

\*\*Set Viewing options:

If (user wants to search for a component in an email) then use

this function.

If (user wants to make a folder) then use this function.

If (user wants to make sorting) then use this function.

Names:

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-محمد طلعت محمد 18011510