ReactJS Practice Question Set 10

Instructions:

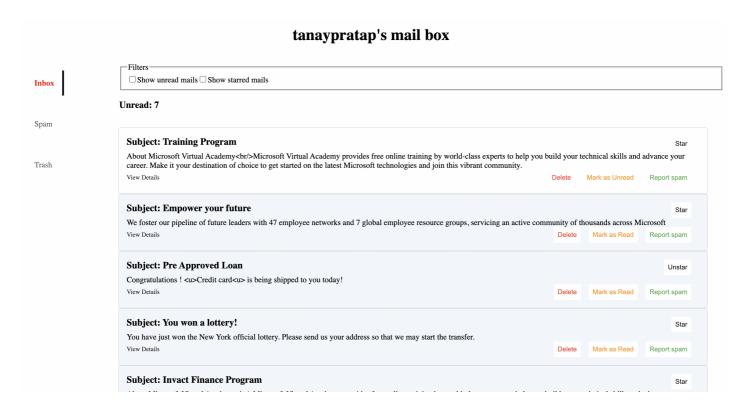
- 1. Do these questions in a React JS template editor. You can use React JS CodeSandbox or React JS REPL.
- 2. This set is about practicing useReducer, useContext and React Router in React.
- 3. You can make use of methods such as .map(), .filter(), .reduce(), .length, .toLowerCase(), .toUpperCase(), .push, .includes wherever needed.
- 4. Do NOT use for-loops.

Question:

Create a mail application in React closest to the image shown below with following features:

- 1. Have 3 folders: Inbox, Spam, Trash. Implement routing to navigate through these folders using React Router.
- 2. Initially load the mail data for Inbox. And Spam and Trash folder should have no data. Do this using context (MailProvider).
- 3. Perform various operations on the mail app using useReducer.
 - Implement filters to show unread emails and to show starred emails with the help of checkbox. Initially these checkboxes should not be selected.
 - Star and un-star an email.
 - Delete an email: The email should be sent to the Trash folder if you delete an email.
 - Mark an email as read: This should decrease value of the "Unread" counter.
 - Report an email as spam: The email should be sent to spam folder if you report an email as spam.
 - View Details should open that email in an individual page.

Initial data has been provided below.



Data:

```
export const mails = [
   mId: 'guid-1',
   unread: false,
    isStarred: false,
    subject: 'Training Program',
    content:
      'About Microsoft Virtual Academy<br/>Microsoft Virtual Academy provides free online tr
  },
   mId: 'guid-2',
   unread: true,
   isStarred: false,
    subject: 'Empower your future',
    content:
      'We foster our pipeline of future leaders with 47 employee networks and 7 global emplo
  },
   mId: 'guid-3',
   unread: true,
    isStarred: true,
    subject: 'Pre Approved Loan',
      'Congratulations ! <u>Credit card<u> is being shipped to you today!',
  },
   mId: 'guid-4',
   unread: true,
    isStarred: false,
    subject: 'You won a lottery!',
    content:
      'You have just won the New York official lottery. Please send us your address so that
  },
  {
```

```
mId: 'guid-5',
   unread: true,
   isStarred: false,
   subject: 'Invact Finance Program',
   content:
      'About Microsoft Virtual Academy<br/>Microsoft Virtual Academy provides free online tr
  },
   mId: 'guid-6',
   unread: true,
   isStarred: false,
   subject: 'neoG Camp Interview',
    content:
      'We foster our pipeline of future leaders with 47 employee networks and 7 global emplo
 },
   mId: 'guid-7',
   unread: true,
   isStarred: false,
   subject: 'Pre Approved Loan 1',
    content:
      'Congratulations ! <u>Credit card<u> is being shipped to you today!',
  },
   mId: 'guid-8',
   unread: true,
   isStarred: false,
    subject: 'You won a lottery! 8th time',
    content:
      'You have just won the New York official lottery. Please send us your address so that
 },
]
```