

# 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.

Inbox

Spam

Trash

tanaypratap's mail box

Filters

Show unread mails

Show starred mails

Unread: 7

Subject: Training Program

About Microsoft Virtual Academy<br>Microsoft Virtual Academy provides free online training by world-class experts to help you build your technical skills and advance your career. Make it your destination of choice to get started on the latest Microsoft technologies and join this vibrant community.

View Details

Delete

Mark as Unread

Report spam

Star

Subject: Empower your future

We foster our pipeline of future leaders with 47 employee networks and 7 global employee resource groups, servicing an active community of thousands across Microsoft

View Details

Delete

Mark as Read

Report spam

Star

Subject: Pre Approved Loan

Congratulations ! <u>Credit card<u> is being shipped to you today!

View Details

Delete

Mark as Read

Report spam

Unstar

Subject: You won a lottery!

You have just won the New York official lottery. Please send us your address so that we may start the transfer.

View Details

Delete

Mark as Read

Report spam

Star

Subject: Invect Finance Program

View Details

Delete

Mark as Read

Report spam

Star

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 empl
  },
  {
    mId: 'guid-3',
    unread: true,
    isStarred: true,
    subject: 'Pre Approved Loan',
    content:
      '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 emplc
},
{
  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
},
]
```