**Activity list**

kA screenshot of a cell phone

Description automatically generated

The screenshot shows a scrollable list of activity items. Build a page which shows this view. You are provided with activityGenerator.js file in which there are subscribe and unsubscribe methods. Subscribing to the method will start giving you activities, data from which can be used to populate the above UI. There are following business rules:-

1. There are 3 types of activities – reaction, atmention, reply.
2. Each type of activity will have an ID associated with it.
3. When reaction activity with same ID is received again, then the previously shown activity with same ID gets updated with title X + 1 reacted to your post. And if 3 more such activities come with same ID then title says X + 4 reacted to your post and so on. X is the first name of the person. This procedure we will call as **dedupe**.
4. Just like #3, same rule applies for reply type of activity with title as X + 4 replied.
5. When same reply activity is received again with the same ID by the same person, then only the timestamp on the right changes but text X + 4 replied remains the same.
6. Activities of type atmention will not be deduped and “X mentioned you” will always remain as single activity in the list.
7. For timestamp – show in the format: mm/dd hh:mm
8. No dupe activity for atmention will be received as a part of subscribed function.

Sample json object for rendering 1st item in the above screenshot:-

{

activityId: "1",

byUser: {

email: "test1@msft.com",

firstName: "Nitish",

imageDataUri: "<base64string>”,

lastName: "Nilay",

userId: "2"

},

generatedAt: 1594910183423,

message: "EFIN P1 fix: Clicks on Activity-tab button should be no-op",

team: "FeedsBlrTeam",

channel: "PR Reviews",

type: "reaction"

}

Required features:-

1. Render activity list using incoming data.
2. While rendering, dedupe of reaction and reply activities is must and no dedupe of at-mention activities is required.
3. The UI should match closely with the one in the screenshots.

Bonus features:-

Time sorted order of activities - The list of activities is time sorted (descending order) based on generatedAt value in the payload.

Important:-

1. The solution should be coded in vanilla JavaScript, HTML, and CSS. No jQuery, bootstrap, or other frameworks/libs are allowed.
2. Focus on modularity of code and design of the solution.
3. Focus on functional completeness. A working demo is very important.
4. Try to match the look and feel of the UI with the given screenshot.
5. Follow best practices for writing code.
6. You will be evaluated on functionality, UI design, and code quality.

Examples of UI of different activity types:-

Mentions:

A picture containing knife, table

Description automatically generated

Replies (without dedupe):

A picture containing knife, table

Description automatically generated  
  
Replies (with same person replying to the post again - update the timestamp)  
  
A picture containing knife, table

Description automatically generated

Replies (with dedupe):  
A picture containing knife, table

Description automatically generated  
  
Reaction (without dedupe):  
A picture containing table, knife

Description automatically generated  
Reaction (with dedupe):  
A picture containing knife

Description automatically generated