Frontend Documentation

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Start application:

```
cd frontend
npm run start
```

The front end will be started at port 3000. To use a different port, edit package.json:

"scripts": { "start": "set PORT=PORTNUMBER && react-scripts start" }

Technology Stack:

React

React Hooks and routing are used extensively:

- {useNaviagte, useState, useEffect}
- Browser Router for URL path management

Axios

Used to make HTTP requests and handle responses from the server.

Redux

Stores global state of user information:

- {useDispatch, useSelector}
- Redux-persist will use local storage.

Redux documentation

We define our user data slice/definition for redux in userSlice.js. We store the currently logged-in user's email(default is "") in the state and have a reducer/method changeEmail to modify the storage state.

Then, we define our storage in store.js and use redux-persist to only allow component render after the state is loaded.

In index.js, we pass the storage as a global state into the application and when rendering, we display the component set as loading.

useDispatch

useSelector

```
import { useSelector, useDispatch } from 'react-redux'
export default function Component() {

// Contains the current email stored. Only proceed to next statements until the email is retrieved.
const currentUserEmail = useSelector((state) => state.email);
```

Axios

```
1 axios.defaults.withCredentials = true;
                                                        // needed to retreive session id
 2 axios.PROTOCAL(URL,
 3
    {},
 4
     {
 5
           headers: {
               'Access-Control-Allow-Credentials': true,// needed to send credentials
 6
 7
               'Access-Control-Allow-Origin': HOSTNAME, // needed to pass CORS
 8
           },
9
       }
10 ).then(() => {
                                                       // Called when the call is a success
11 }).catch(function () {
                                                       // Called O.W.
12 });
```

Custom Components:

MomentieTimeline

Displays one or more vertical timelines. See the demo on App.js.

Attributes: { timelineList, setTimelineList, width, height, editMode, isSkill, section }

- timelineList- useState variable that contains the passed-in data.
- setTimelineList useState set method to change timelineList.
- width width of each timeline
- height height of each timeline
- · editMode display the edit view

- isSkill when set to true, timeline should display a much simple version.
- · section name of this timeline.

MomentieTimelineItem

Displays a single timeline item.

Attributes: { index, timelineItem, width, editMode, deleteItem, editItem, isSkill }

- index index position inside the timeline array
- · timelineItem item data
 - o Contract: The data should be an object looking like

- width width of the item
- · editMode display the edit view
- deleteItem takes a topic and an index and deletes it from the view. Will re-render.
- · editItem takes a topic, index, field, and value that sets the item's field by this new value. Will not re-render
- isSkill when set to true, timeline should display a much simple version.

Momentie Tag

Displays a list of tags

```
Attributes: { tagList, setTagList, edit }
```

• tagList - useState variable of list of tag data

```
1 [{
2    current: string
3 }]
```

- setTagList useState set method to change the tags.
- · edit display edit view when true.

Rate

Displays a rating value

```
Attributes: { rating, setRating, read, rate }
```

- rating useState variable a rating integer value
- setRating useState set method to change the rating value
- · read readOnly if set to true.
- rate a function called to handle a change in rating

Displays a list of posts.

```
Attributes: { postList }
```

• postList

```
1 [{
2    email: string
3    content: string
4 }]
```

Miscellaneous

• constants.js You should store global constants here. Currently, only backendHost which is the backend hostname is stored