#### Full Stack IV - Lab (React)

- Functional & Class Components
- Component Props, State & Events
- Controlled Components

#### **Developer Note:**

 Work can be done in the same create-react-act application. Remember to not include node modules in the GitHub submission.

#### Demo can be found here

https://voutu.be/5Vur82tsaiU

#### References:

https://reactis.org/

https://www.npmis.com/package/react-moment

### **Simple Tweeter Application**

Build an application with the following requirements:

• Create 4 components, TweetContainer, Comment, Timer and LikeButton

### App.js

- Imports TweetContainer component
- Renders 3 TweetContainer components and passing in a different status for each component

# TweeterContainer Component 25%

#### Build a container component which has the following requirements:

- Imports the **Comment** component
- Displays the status passed into the component (as a prop from the parent App control)
- Contains a Comment Form and Post button (this can be an inline form in the isx)
  - when the comment text is entered and Post button clicked,a new comment component containing the text is created and displayed in Comment list
- Renders a list of Comment components

Hint: The Form and input textbox should be controlled components there should have two functions:

1. handleFormSubmit - that will handle the form submit event and keep track of the list or array of comments added.

2. handleTextChange - that will track the controlled textbox component value (ie. comment text), so that when the form is submitted the React component knows which new comment to add

### Comment Component 25%

Build a container component which has the following requirements:

- Imports the LikeButton and the Timer Component
- Renders the comment text passed in as a prop (from the parent TweeterContainer component)
- Renders the LikeButton Component and Timer Component

Hint: The comment text passed in from the parent TweeterContainer component is a read-only prop.

## Timer Component 25%

Build a component which has the following requirements:

- Imports the **Moment from react-moment**
- Calculates the current date
- Use React Moment to display the current time in format (Hour, Minutes, Seconds)

Hint: The component can be stateless and just render the current time.

### LikeButton Component 25%

Build a component which has the following requirements:

- Has internal state to keep track of number Like clicks
- Has a click handler function to update the Like counter
- Displays the number of Likes

Hint: This component should have state and keep track of the number of clicks. It should have an event handler to handle the button click event.

The **TweeterContainer** component should display as follows:

# At home, binge watching Breaking Bad for second time!

	Post
22:35:32 You need to watch Nar	cos Like 3 Likes
22:35:32 I don't have a Netflix acc	count Like 1 Likes

#### Bonus 5%

Solve the problem with the Timer component updating, when the Comment component state is updating on every user text input into the Comment post control. The Timer time should not change once rendered.

Specification	Percentage
1:TweeterContainer Component	25%
2: Comment Component	25%
3:Timer Component	25%
4: <u>Like Button Component</u>	25%
Bonus	5%
Total	100%