Assignment V

The USA (**U**niversal **S**tyle **A**ssocation) needs your help! They feel like they are missing out (fomo..) because of all the new styling libraries such as MaterialUI and ReactBootstrap. They want to create a new styling library called **InfinityModules**. This module should work similarly as **MaterialUI** or **ReactBootstrap**. Every styles should be implemented using **CSS Modules**. If the component must use provided **props** for styling, the **style** props can be used. Let's take a look at what it should implement:

1. **(10%) -** Create a component called **Modal** which should be a floating dialog. This component should receive as props:
   I. **isOpen** - default false
   II. **onClose : func**

   (3) The modal should contain a title which should be rendered as the following:
   <Modal.Title>My Modal Title</Modal.Title>
   (4) The modal should contain a body which should be rendered as the following:
   <Modal.Body>My Modal Body</Modal.Body>
   (5) The modal should contain an optional footer which should be rendered as the following:
   <Modal.Footer>My Modal Footer</Modal.Footer>

```
<Modal
    isOpen={this.state.isOpen}
    onClose={() => this.setState({ isOpen: false })}>
    <Modal.Title>My Modal Title</Modal.Title>
    <Modal.Body>My Modal Body</Modal.Body>
    <Modal.Footer>My Modal Footer</Modal.Footer>
</Modal>
```

2. **(10%) -** Create a component called **ProgressBar** which should display a progress bar. This component should receive as props:
   I. **progress (**0 - 100**)**
   II. **striped (**true/false**)** - default false
   III. **animated (**true/false**)** - default false
   IV. **state (**info/success/warning/danger**)**

```
<ProgressBar
    progress={50}
    striped={true}
    animated={true}
    state={success} />
```

3. **(10%) -** Create a component called **NameCard** which should display a name card for a person. This component should receive as props:
   I. **name**
   II. **email**
   III. **telephone**
   IV. **imageUrl**

```
<NameCard
    name="Arnar Leifsson"
    email="arnarl@ru.is"
    telephone="+354-777-7777"
    imageUrl="https://example.com/profile.jpg" />
```

4. **(10%) -** Create a component called **Carousel** which should be a basic image slider with two arrows (*left and right*) to navigate between images. This component should receive as props:
   I. **images (an array)**
   II. **size (small, medium, large)** - default medium

```
<Carousel
    images={[
        'https://example.com/pic1.jpg',
        'https://example.com/pic2.jpg'
    ]}
    size="medium" />
```

5. **(10%) -** Create a component called **Row** which should contain **Col** (see below) within. This component should receive as props:
   I. **children (node)**

```
<Row>
    <Col size={4}></Col>
    <Col size={4}></Col>
    <Col size={4}></Col>
</Row>
```

6. **(10%) -** Create a component called **Col** which should reside within a **Row** (see above) component. Each row should accept twelve <**Col size={1}></Col>**, which results in a fully stacked row. Two **<Col size={6}></Col>** also results in a fully stacked row. Whenever there is a combined size of more than twelve the column should jump to the next line. This component should receive as props:
   I. **size** - default 1

7. **(10%) -** Create a component called **TimePicker** which should be used to select time. This must a visual component, where a user picks a time, similar to the Material-UI Time Picker. This component should receive as props:
    - I. **onTimePick : func**
    - II. **format (**24/12**)** - determines the format either 24H or 12H (using AM/PM). It should default to 24

```
<TimePicker
    onTimePick={time => this.setState({ time })}
    format={24} />
```

8. **(10%) -** Create a component called **DatePicker** which should be used to select a date. This must a visual component, where a user picks a date, similar to the Material-UI Date Picker. This component should receive as props:
    - I. **onDatePick : func,**
    - II. **locale : (**en-EN, is-IS, de-DE, …, ko-KR**)** - determines what locale the date string should be passed to **onDatePick**. It should default to is-IS.

```
<DatePicker
    onDatePick={date => this.setState({ date })}
    locale="en-EN" />
```

9. **(10%) -** Create a component called **Tabs** which should serve as a container for tabs. Within **Tabs** one to many **Tab** can reside. This should look and feel like switching between tabs in the browser.
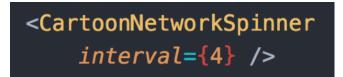
    Tabs should receive as props:
    - I. **theme** (dark/light) - default light
    - II. **layout** (horizontal/vertical) - default horizontal
    - III. **onSelect : func**
    - IV. **currentSelectedTab : number**

    Tab should receive as props:
    - V. **selectionKey : number** (this number should correspond to **currentSelectedTab** in the **Tabs** component)
    - VI. **title**

```
<Tabs
    theme="dark"
    layout="horizontal"
    onSelect={newTab => this.setState({ tab: newTab })}
    currentSelectedTab={this.state.tab}>
    <Tab selectionKey={1} title="Tab 1">
        Content 1
    </Tab>
    <Tab selectionKey={2} title="Tab 2">
        Content 2
    </Tab>
    <Tab selectionKey={3} title="Tab 3">
        Content 3
    </Tab>
</Tabs>
```

10. **(10%) -** Create a component called **CartoonNetworkSpinner** which should be like a washer which spins in an even interval (provided as props) and every time it spins it should display a new image from any Cartoon Network characters you want. The component should receive as props:
    I. **interval : number** (representing seconds) - default 3

```
<CartoonNetworkSpinner
      interval={4} />
```

Submission
This package should be published using NPM (https://docs.npmjs.com/getting-started/publishing-npm-packages) and the link to the NPM repository should be submitted in Canvas.

External libraries
No external libraries can be used for this assignment.

Other
Feel free to let your inner artist bloom. There will be a ***prize*** for the best looking styling library.
As usual we will be aware of other tools such as **Material-UI, React-Bootstrap, Elemental** etc…
If the code looks to similar to the code of the these libraries, the student/s will be brought in for questioning and if the result will be negative from the questioning the assignment will receive a grade of 0.