

## Assignment V

The USA (**U**niversal **S**tyle **A**ssociation) 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**. 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

## 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 too similar to the code of 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.