

IMY 220

Practical 8:

React.js

Due: Friday 28 September @ 11:30

The submission instructions are available on ClickUP. Any deviation from these instructions will cause a 10% deduction from your mark.

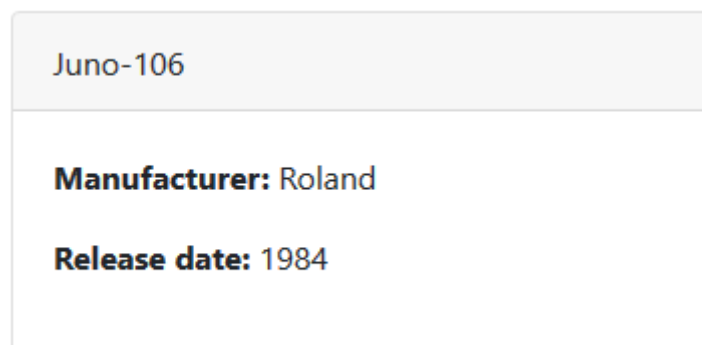
You will get 0 if you do not submit on ClickUP.

Instructions

- The aim of this practical is to use React.js to display an array of synthesizers inside formatted Bootstrap cards.
- Download the files (*index.html* and *script.js*) from ClickUP, which contain some simple markup and the JavaScript for the array of synthesizers respectively.

Section 1: Synth component

Inside *index.html*, include all the required files to use React.js and Bootstrap's CSS. Also include *script.js*, which will contain all the JavaScript for this practical. Inside *script.js*, define a React component called Synth, which renders a single Bootstrap column containing a Bootstrap card which displays information about a single synthesizer as follows:



All the information to be displayed must be obtained from the Synth component's props, for example, you should be able to render the above component as follows, given the provided array of synthesizers (although your prop name may differ):

```
<Synth synth={synths[2]} />
```

(Note that this is purely for testing purposes. You only need to render a SynthCollection component for this practical, as this will contain multiple Synth components.)

Section 2: SynthCollection component

Define a React component called SynthCollection which displays the given list of synthesizers in formatted Bootstrap cards as well as the amount of synthesizers being

displayed. (You must render this component to *div#root*, which you are not allowed to change.)

A SynthCollection must be rendered with two props:

- an array of synthesizers in the format provided
- a minimum-year value.

Given a minimum-year value (you can call this prop what you want), all synthesizers that have a release-property more than this minimum-year value must be displayed along with a heading stating the number and year, for example, given a value of 1981:

4 synths released after 1981:

Juno-106	DX-7	Chroma Polaris
Manufacturer: Roland	Manufacturer: Yamaha	Manufacturer: Rhodes
Release date: 1984	Release date: 1983	Release date: 1984
SH-101		
Manufacturer: Roland		
Release date: 1983		

There must always be three cards displayed per row (use Bootstrap columns to do this) and you must use the Synth component for each card displayed.

Submit ONLY the following file(s) according to the submission instructions.

- *index.html*
- *script.js*