# IMY 220 Practical 7: Node + React.js

Due: Friday 14 October @ 9:30

The submission instructions are available on ClickUP. Your practical will not be marked if you do not follow these instructions.

### Instructions

- The aim of this assignment is to create a UI for displaying clickable bootstrap cards of users that expand and display more information when the heading is clicked.
- Download index.js, which contains an array of users. You will have to edit this file and create other files.
- Remember to include the CDN for bootstrap in your *index.html* and use the appropriate class names.
- You must use React the recommended way for this practical. In other words, you must make use of
  the packages and functionality discussed in Lecture 19 (NodeJS + ReactJS) to be able to use JSX
  syntax for declaring components. You must also make use of the recommended file structure and
  define each React component inside its own file as discussed in this lecture.

# Section 1 - User component

After installing all the required modules for being able to transpile and bundle JSX into valid JS and serve a webpage that renders JSX components, create a component called User in a new file called User.js which receives a single JS object with the details for a user as its prop (in the format given in index.js) and renders a Bootstrap card heading that contains the user's username in the following format:

Daniells Cool

Add functionality that allows you to click on the heading which then displays more information about the user (this information is obtained from *script.js*). You should be able to toggle this on and off (i.e., when you click on the heading again it should collapse). If done correctly it should look like the following:

Name: Daniel
Surname: Daniels
Age: 23

(Note that you will only need to render a UserList component for this practical, as this will contain multiple Users components.)

# **Section 2 - UserList component**

Write the definition for a component called UserList, which takes a prop:

An array of users in the format given by the array inside index.js

The module must render a list of User components for all the users in the array in *index.js*. Each card should take up half the width of the row (i.e., col-6). The result should be as follows:

When all the headings are collapsed:

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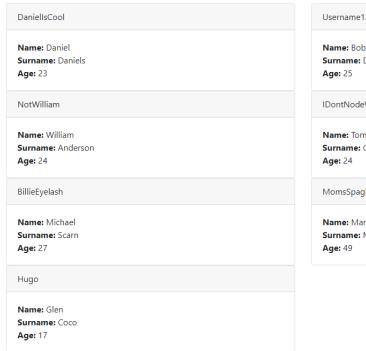
### Users

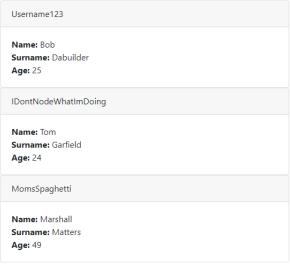


This is an example when all the headings are clicked:

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### **Users**





### **Additional Information**

• Refer to the slides and react.js website for help

Submit all the files required for this practical to work (including the config files for babel and webpack) **except** for your node\_modules directory and its contents.