

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:

DaniellsCool

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:

DaniellsCool

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:

Practical 7

Users

DaniellsCool	Username123
NotWilliam	IDontNodeWhatImDoing
BillieEyelash	MomsSpaghetti
Hugo	

This is an example when all the headings are clicked:

Practical 7

Users

DaniellsCool	Username123
Name: Daniel Surname: Daniels Age: 23	Name: Bob Surname: Dabuilder Age: 25
NotWilliam	IDontNodeWhatImDoing
Name: William Surname: Anderson Age: 24	Name: Tom Surname: Garfield Age: 24
BillieEyelash	MomsSpaghetti
Name: Michael Surname: Scarn Age: 27	Name: Marshall Surname: Matters Age: 49
Hugo	
Name: Glen Surname: Coco Age: 17	

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.