MaterialUI

Source: https://mui.com/material-ui/getting-started/overview/

-library of react UI components, implementing Google's Material design.

-comprehensive collection prebuilt components, ready to use in production and out of box.
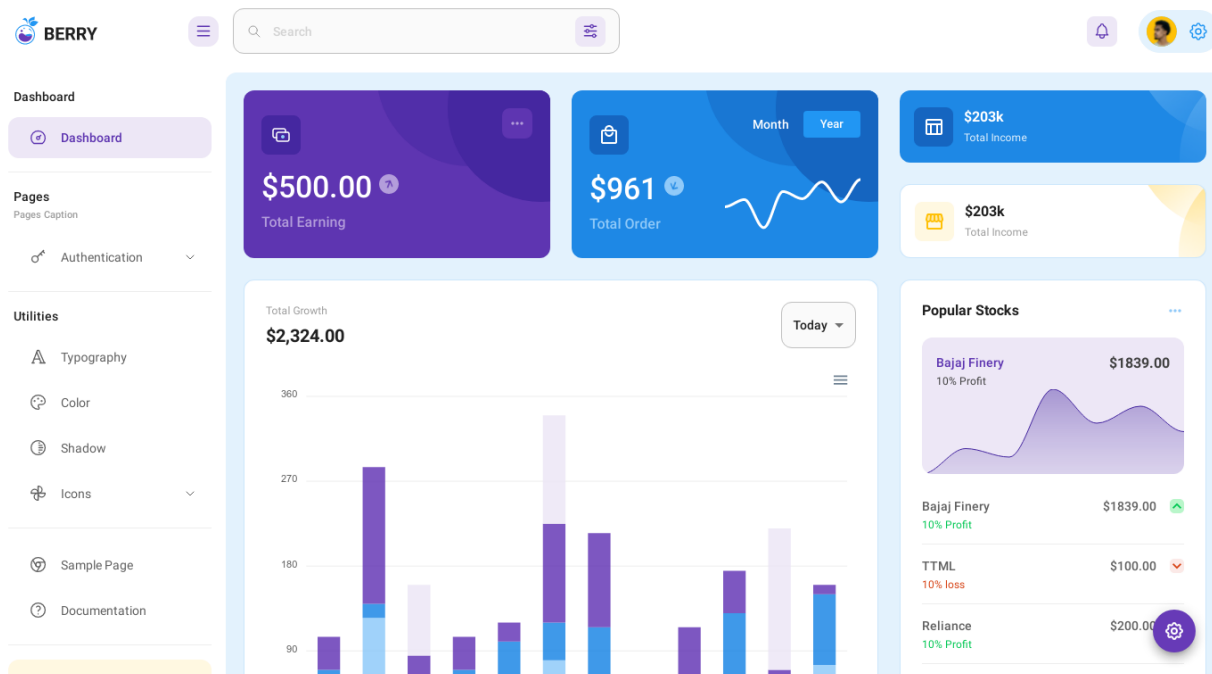
-easy to implement own custom design system

Why materialUI?

- Thousands of open source contributors
- allow focus on business logic instead of UI.
- Customization: intuitive customization features
- pre-styled

https://mui.com/store/previews/minimal-dashboard-free/

https://mui.com/store/previews/berry-react-material-admin-free/:

Features to study: User Authentication page, Money widgetrs, Profile w/ user shown (top right), Live customization (spinning purple thing), Dashboard bar (top left) BUT prefer others.

Creating a button in react.

```
import * as React from 'react';

import Button from '@mui/material/Button';



export default function MyApp() {

  return (

    <div>
```

```
        <Button variant="contained">Hello World</Button>

    </div>

  );

}
```

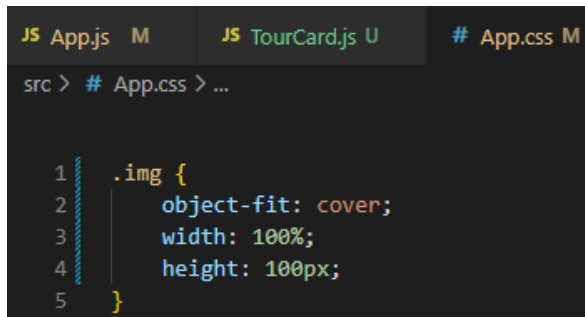**MU15 (Material UI v5) Crash Course :**

Objective: Building a tourism website

https://www.youtube.com/watch?v=o1chMISeTC0

TIP: break it down into 1 element at a time, then go to the MUI documentation to find that element and create it.

Step 0: create a reactJS app

In cmd terminal: npx create-react-app [app-name]

Task1 – create a card.

- How can we make the square? Choose surface, a paper or card
- How do we center the square on the page? Use a container
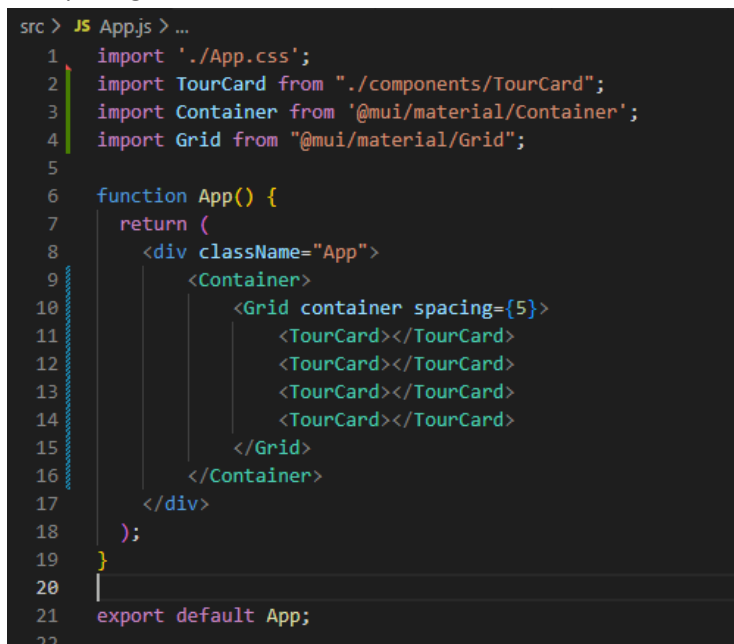- How do we control the size of our image? Create settings for the image in app.css.

```
JS App.js  M        JS TourCard.js U        # App.css M

src > # App.css > ...


1   .img {
2       object-fit: cover;
3       width: 100%;
4       height: 100px;
5   }
```

- How do we space out 4 cards evenly on the page and define their margins? Use a "grid container", and specify the spacing.
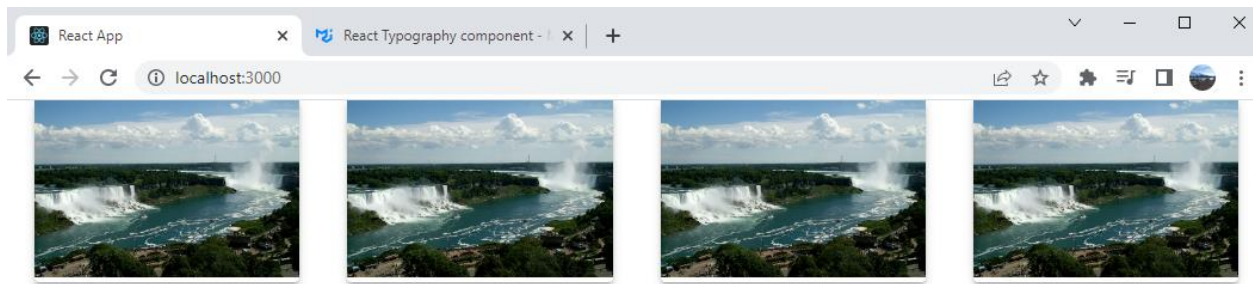
```
src > JS App.js > ...
1   import './App.css';
2   import TourCard from "./components/TourCard";
3   import Container from '@mui/material/Container';
4   import Grid from "@mui/material/Grid";
5
6   function App() {
7     return (
8       <div className="App">
9         <Container>
10          <Grid container spacing={5}>
11            <TourCard></TourCard>
12            <TourCard></TourCard>
13            <TourCard></TourCard>
14            <TourCard></TourCard>
15          </Grid>
16        </Container>
17      </div>
18    );
19  }
20
21  export default App;
22
```

Progress thus far:

Let's put in text now w/ Typography:

Process: size, padding

```
11              <Box paddingX ={1}>
12                  <Typography variant="subtitle1" component="h2">
13                      Immerse into the Falls
```

Install icons:

npm install @mui/icons-material

Adding an app bar: suggested just copying all the code and modifying (many components)

Add a spacing between app bar and paper by using "sx" property, where "sx" lets you add any css styling to a component.

```
7   function App() {
8     return (
9       <div className="App">
10          <SearchAppBar/>
11          <Container sx={{marginY: 5}}>
12              <Grid container spacing={5}>
13                  <TourCard></TourCard>
14                  <TourCard></TourCard>
15                  <TourCard></TourCard>
16                  <TourCard></TourCard>
17              </Grid>
18          </Container>
19      </div>
20    );
21  }
```
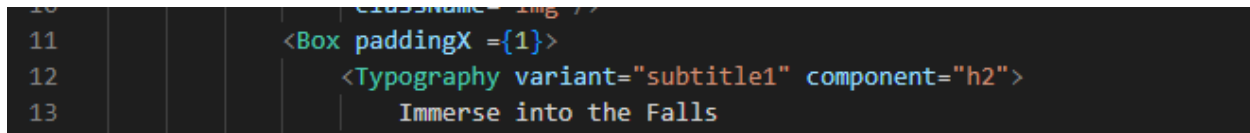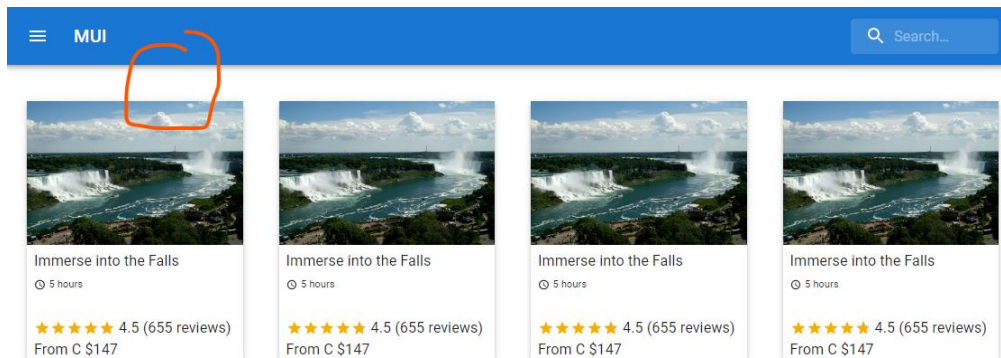
Tutorial product:

Top Niagara Falls Tours

Immerse into the Falls

🕐 5 hours

⭐⭐⭐⭐ 4.5 (462 reviews)

From C $465

Helicopter Over the Falls

🕐 8 hours

⭐⭐⭐ 3.5 (641 reviews)

From C $385

The Falls at Night

🕐 2 hours

⭐⭐⭐⭐ 4.5 (133 reviews)

From C $144

Immerse into the Falls

🕐 5 hours

⭐⭐⭐⭐ 4.5 (462 reviews)

From C $465

Top Las Vegas Tours

All Around the World

🕐 5 hours

⭐⭐⭐⭐ 4.5 (462 reviews)

From C $465

View the Casinos

🕐 5 hours

⭐⭐⭐⭐ 4.5 (462 reviews)

From C $465

Show me the Magic

🕐 8 hours

⭐⭐⭐ 3.5 (641 reviews)

From C $385

The Falls at Night

🕐 2 hours

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From C $144