# Week 3

# Section 4 - Grid System

grid.js

```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  \dots the {\tt me.typography.body2},
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));
export default function BasicGrid() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs=\{8\} sm=\{12\} md=\{8\}>
         <Item>Grid 1</Item>
        </Grid>
        <Grid item xs={4} sm={12} md={4}>
          <Item>Grid 2</Item>
        </Grid>
        <Grid item xs={4} sm={6} md={12}>
         <Item>Grid 3</Item>
        </Grid>
        <Grid item xs={8} sm={6} md={12}>
          <Item>Grid 4</Item>
        </Grid>
      </Grid>
    </Box>
 );
```

### App.js

### Section 5 Content block in Material UI

blog.js

```
import * as React from "react";
import { styled } from "@mui/material/styles";
import Grid from "@mui/material/Grid";
import Paper from "@mui/material/Paper";
import Typography from "@mui/material/Typography";
import ButtonBase from "@mui/material/ButtonBase";
const Img = styled("img")({
  margin: "auto",
  display: "block",
  maxWidth: "100%",
  maxHeight: "100%"
});
export default function ComplexGrid() {
  return (
    <Paper
      sx={{
        margin: "auto",
        maxWidth: 500,
        flexGrow: 1,
        backgroundColor: (theme) =>
          theme.palette.mode === "dark" ? "#1A2027" : "#fff"
      }}
      <Grid container spacing={2}>
        <Grid item >
          <ButtonBase sx={{ width: 128, height: 128 }}>
             <Ima
              alt="img text"
              src="https://images.unsplash.com/photo-1682695798522-6e208131916d?ixlib=rb-4.0.3&ixid=M3wxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB
          </ButtonBase>
        </Grid>
        <Grid item xs={12} sm container>
          <Grid item xs container direction="column" spacing={2}>
             <Grid item xs>
               <Typography gutterBottom variant="subtitle1">
                 Standard license
               </Typography>
               <Typography variant="body2" gutterBottom>
                 Full resolution 1920x1080 • JPEG
               </Typography>
               <Typography variant="body2" color="success.main">
                 ID: 1030114
               </Typography>
             </Grid>
           </Grid>
          <Grid item>
             <Typography variant="subtitle1" component="div">
             </Typography>
          </Grid>
        </Grid>
      </Grid>
    </Paper>
 );
}
```

# App.js

```
);
}
export default App;
```

# **Section 6 Navigation in Material UI**

Change the code in package.json

```
"scripts": {
    "start": "export SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts start",
    "build": "export SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts build"
},
```

#### index.js

## App.js

```
import React from 'react';
import BasicGrid from './grid.js'
import Blog from './blog.js'
import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';
class App extends React.Component {
 render() {
   return (
     <div>
       <nav>
         <l
           <
            <Link to="/">Home</Link>
           <
            <Link to="/Blog">Blogs</Link>
           <
            <Link to="/BasicGrid">BasicGrid</Link>
```

# Blog.js

```
import * as React from "react";
import { styled } from "@mui/material/styles";
import Grid from "@mui/material/Grid";
import Paper from "@mui/material/Paper";
import Typography from "@mui/material/Typography";
import ButtonBase from "@mui/material/ButtonBase";
const Img = styled("img")({
  margin: "auto",
 display: "block",
 maxWidth: "100%",
 maxHeight: "100%"
export default function ComplexGrid() {
    <Paper
     sx={{
       p: 2,
       margin: "auto",
       maxWidth: 500,
       flexGrow: 1,
       backgroundColor: (theme) =>
  theme.palette.mode === "dark" ? "#1A2027" : "#fff"
     }}
     <Grid container spacing={2}>
       <Grid item>
         <ButtonBase sx={{ width: 128, height: 128 }}>  
           <Img
             alt="complex"
             />
         </ButtonBase>
       </Grid>
       <Grid item xs={12} sm container>
         <Grid item xs container direction="column" spacing={2}>
           <Grid item xs>
             <Typography gutterBottom variant="subtitle1" component="div">
              Standard license
             </Typography>
             <Typography variant="body2" gutterBottom>
              Full resolution 1920x1080 • JPEG
             <Typography variant="body2" color="text.secondary">
              ID: 1030114
             </Typography>
           </Grid>
           <Grid item>
             <Typography sx={{ cursor: "pointer" }} variant="body2">
             </Typography>
           </Grid>
         </Grid>
         <Grid item>
           <Typography variant="subtitle1" component="div">
            $19.00
           </Typography>
         </Grid>
       </Grid>
```

```
</Grid>
</Paper>
);
}
```

# grid.js

```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
textAlign: 'center',
  color: theme.palette.text.secondary,
}));
export default function BasicGrid() {
  return (
    <Box sx={{ flexGrow: 1 }}>
       <Grid container spacing={2}>
         <Grid item xs={8}>
           <Item>xs=8</Item>
         </Grid>
         <Grid item xs={4}>
           <Item>xs=4</Item>
          </Grid>
         <Grid item xs={4}>
           <Item>xs=4</Item>
         </Grid>
         <Grid item xs={8}>
           <Item>xs=8</Item>
         </Grid>
       </Grid>
    </Box>
 );
}
```

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