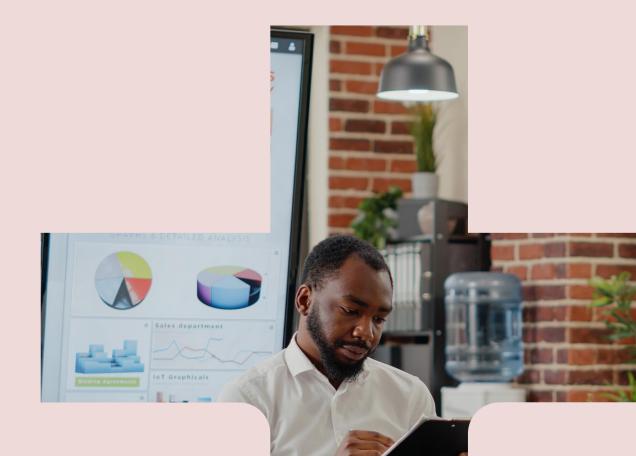
# pulsati<sup>+</sup>

Material UI

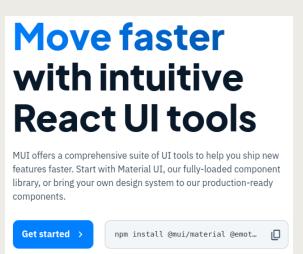




#### MUI

Adentramos agora na área de sistemas de design, essa é uma biblioteca que provê um sistema de design para a aplicação que for utilizá-la, desta forma podemos aproveitar um estilo padrão para apresentar componente e também podendo extender conforme necessidade.

Baseado no sistema de design da Google.



https://mui.com/

### Design System

Define as estruturas básicas que um componente deve ter.

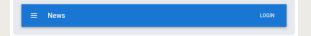
Padrões de espaçamentos, tamanhos, sombreamentos, fontes...





#### App Bar

https://mui.com/material-ui/react-app-bar/



```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import Button from '@mui/material/Button';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
export default function ButtonAppBar() {
 return (
   <Box sx={{ flexGrow: 1 }}>
     <AppBar position="static">
       <Toolbar>
         <IconButton
            size="large"
           edge="start"
           color="inherit"
           aria-label="menu"
           sx={{ mr: 2 }}
            <MenuIcon />
         </IconButton>
         <Typography variant="h6" component="div" sx={{ flexGrow: 1 }}>
           News
         </Typography>
         <Button color="inherit">Login</Button>
       </Toolbar>
     </AppBar>
   </Box>
```



#### Data Grid

https://mui.com/x/react-data-grid/

ID	First name	Last name	Age	Full name
1	Jon	Snow	35	Jon Snow
2	Cersei	Lannister	42	Cersei Lannister
3	Jaime	Lannister	45	Jaime Lannister
4	Arya	Stark	16	Arya Stark
5	Daenerys	Targaryen		Daenerys Targaryen
				1–5 of 9 < >

```
import Box from '@mui/material/Box';
import { DataGrid, GridColDef, GridValueGetterParams } from '@mui/x-data-grid';
const columns: GridColDef[] = [
 { field: 'id', headerName: 'ID', width: 90 },
   field: 'firstName',
   headerName: 'First name',
   width: 150,
   editable: true,
   field: 'lastName',
   headerName: 'Last name',
   width: 150,
   editable: true,
   field: 'age',
   headerName: 'Age',
   type: 'number',
   width: 110,
   editable: true,
   field: 'fullName',
   headerName: 'Full name',
   description: 'This column has a value getter and is not sortable.',
   sortable: false,
   width: 160,
   valueGetter: (params: GridValueGetterParams) =>
      `${params.row.firstName || ''} ${params.row.lastName || ''}`,
```



#### Data Grid

https://mui.com/x/react-data-grid/

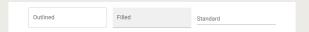
ID	First name	Last name	Age	Full name
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2	Cersei	Lannister	42	Cersei Lannister
3	Jaime	Lannister	45	Jaime Lannister
4	Arya	Stark	16	Arya Stark
5	Daenerys	Targaryen		Daenerys Targaryen
				1-5 of 9 < >

```
const rows = [
 { id: 1, lastName: 'Snow', firstName: 'Jon', age: 35 },
 { id: 2, lastName: 'Lannister', firstName: 'Cersei', age: 42 },
 { id: 3, lastName: 'Lannister', firstName: 'Jaime', age: 45 },
 { id: 4, lastName: 'Stark', firstName: 'Arya', age: 16 },
 { id: 5, lastName: 'Targaryen', firstName: 'Daenerys', age: null },
 { id: 6, lastName: 'Melisandre', firstName: null, age: 150 },
 { id: 7, lastName: 'Clifford', firstName: 'Ferrara', age: 44 },
 { id: 8, lastName: 'Frances', firstName: 'Rossini', age: 36 },
 { id: 9, lastName: 'Roxie', firstName: 'Harvey', age: 65 },
export default function DataGridDemo() {
 return (
   <Box sx={{ height: 400, width: '100%' }}>
      <DataGrid
       rows={rows}
       columns={columns}
       initialState={{
         pagination: {
           paginationModel: {
             pageSize: 5,
       pageSizeOptions={[5]}
       checkboxSelection
       disableRowSelectionOnClick
    </Box>
```



#### Text Field

https://mui.com/material-ui/react-text-field/



```
<TextField id="outlined-basic" label="Outlined" variant="outlined" />
<TextField id="filled-basic" label="Filled" variant="filled" />
<TextField id="standard-basic" label="Standard" variant="standard" />
```





Alterar nossa aplicação de usuários para utilizar o Material UI

# Exercícios :D

## Aplicação de passageiros

Alterar a aplicação de passageiros para que passe a utilizar o Material UI



# Obrigado!

pulsəti<sup>\*</sup>

pulsati.com.br