TypeScript convention

Component

Public components are considered all components exported from <code>@mui/material</code> or <code>@mui/lab</code>.

Internal components are considered all components that are not exported from the packages, but only used in some public component.

Props Interface

- export interface {ComponentName}classes from {component}Classes.ts and add comment for generating api docs (for internal components, may or may not expose classes but don't need comment)
- export interface {ComponentName}Props
- always export props interface (use interface over type) from the component file
- ▶ Public component
- ▶ internal component

ClassKey

- naming as {ComponentName}ClassKey
- export if classes exists in props interface using keyof from {component}Classes.ts

```
// fooClasses.ts
export interface FooClasses {
    ...
}

export type FooClassKey = keyof FooClasses;
// verify that FooClassKey is union of string literal
```

Classes generator & Utility

- export if classes exists in props interface from the component file
- use {Component}Classes as type to preventing typo and missing classes
- use Private prefix for internal component
- ▶ Public component
- ▶ internal component

StyledComponent

- naming using slot {ComponentName}{Slot}
- to extend interface of the styled component, pass argument to generic
- ▶ public component
- ▶ internal component
- ▶ extends interface

Component declaration

- prefer function Component() {} over React.FC
- naming the render function in React.forwardRef (for devtools)
- useThemeProps is needed only for public component

- pass ownerState to StyledComponent for styling
- ▶ public component
- ▶ internal component