Table Components Technical Document

Table of Contents

Introduction

- Purpose
- Entry Points

Components

- Basic
- Sortables
- RadioTable
- CheckboxTable

Usage

- Home Component (Desktop)
- MobileHome Component (Mobile)

Props

Component Structure

Examples

- Implementing Home (Desktop)
- Implementing MobileHome (Mobile)

Best Practices

- Reusability
- Maintainability

1. Introduction

Purpose

The Table Components library provides a set of components to display tabular data with various functionalities. These components are designed for both desktop and mobile views.

Entry Points

The library's entry points are the Home component for desktop views and the MobileHome component for mobile views. The MobileHome component is automatically loaded for views less than or equal to 1000px.

2. Components

Basic

The Basic component renders a basic table for desktop views. It accepts data via props and adjusts columns and rows to accommodate the data.

Sortables

The Sortables component renders a sortable table for desktop views. It populates the table with an array of data and provides sorting functionality for each column.

RadioTable

The RadioTable component renders a table with radio buttons for desktop views. It accepts an array of data as a prop and allows users to select a single row using radio buttons.

CheckboxTable

The CheckboxTable component renders a table with checkboxes for desktop views. It accepts an array of data as a prop and allows users to manually select multiple rows using checkboxes.

3. Usage

Home Component (Desktop)

The Home component for desktop views showcases different types of tables using the Basic, Sortables, RadioTable, and CheckboxTable components.

MobileHome Component (Mobile)

The MobileHome component for mobile views displays the Basic, RadioTable, and CheckboxTable components automatically for views less than or equal to 1000px.

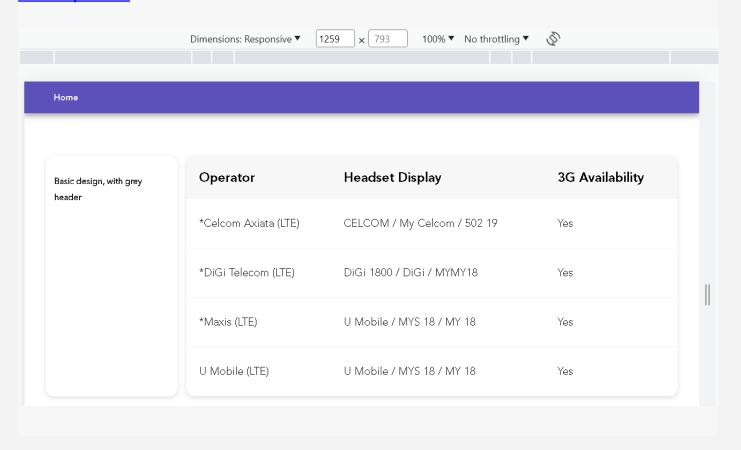
4. Props

Each component may accept different props to customize their behavior, such as providing data to display in the table.

Please Note: Mobile Component will only be loaded if the viewstate has width <=1000px and it will be reflected on page reload due to react-router change of page.

For eg:

Desktop Vlew



Mobile view:

Dimensions: Responsive ▼

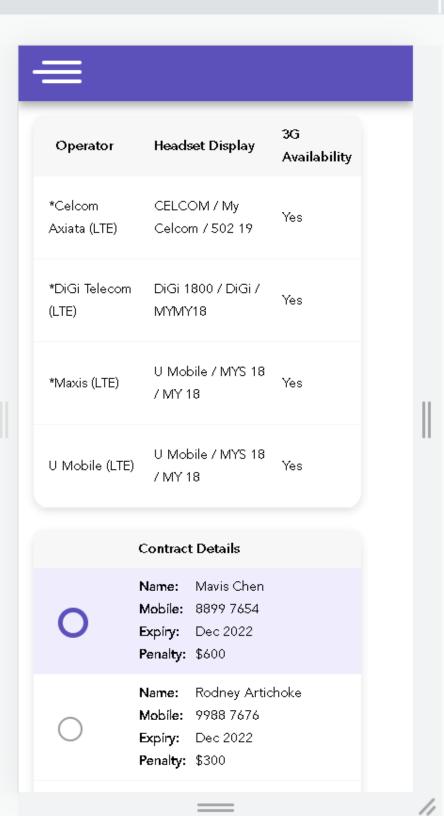
419

x 793

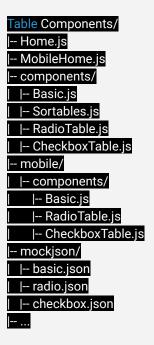
100% ▼

No throttling ▼





5. Component Structure



Installation and setup:

npm install npm start

Unit testing*
npm run test [Test covered using jest and enzyme]

React Version:

React 17.x

Created via Create React App [**No thirdparty library used**]

Examples

Implementing Home (Desktop)

Implementing Mobile based table components

```
// MobileHome.js
import React from 'react';
import './MobileHome.css';
import Basic from 'features/app/Tables/mobile/components/Basic';
import RadioTable from 'features/app/Tables/mobile/components/RadioTable';
import CheckboxTable from 'features/app/Tables/mobile/components/CheckboxTable';
import BasicJson from 'features/app/mockjson/basic.json';
import RadioJson from 'features/app/mockjson/radio.json';
import CheckboxJson from 'features/app/mockjson/checkbox.json';
```

```
const MobileHome = () => {
  return (
     <Basic data={BasicJson} /> //Compatible with mobile or tablet layout
  );
}
export default MobileHome;
```

Implementing Basic Table

export default Home;

Implementing Sortable Table Desktop

Implementing Checkbox Table Desktop

Implementing Radio Table Desktop

Best Practices

Reusability

- Keep components focused on their specific functionalities.
- Utilize components' reusability by passing appropriate props.

Maintainability

- Organize code and assets in a structured manner.
- Use meaningful variable and function names for clarity.

This documentation provides an overview of the Table Components library, its purpose, usage, and key components. Further details and customization can be implemented based on your project's requirements.

Remember to adapt and expand this documentation based on your needs and provide further explanations, code examples, and additional usage details.