React Native Development

Tech_Stack Apps Walkthrough



 Copy semua common component yang kita punya diproject lalu ke project yang sekarang

```
✓ src
   ✓ components
   ✓ common
   JS Button.js
   JS Card.js
   JS CardSection.js
   JS Header.js
   JS index.js
   JS Input.js
   JS Spinner.js
```



• Hapus semua code yang ada di App.js, dan diganti dengan ini:

Tech Stack



- Install Redux dan React Redux dengan mengetik ini di Integrated Terminal
- npm install --save redux react-redux



Import createStore dari Redux dan Provider dari React-Redux di App.js

```
import React from 'react';
import { View } from 'react-native';
import { Provider } from 'react-redux';
import { createStore } from 'redux';
```

Kemudian pasang

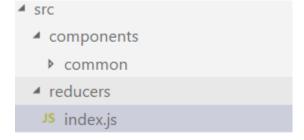
Warning: Failed prop type: Invalid prop `store` of type `function` supplied to `Provider`, expected `object`....

Warning: Failed child context type: Invalid child context `store` of type `function` supplied to...



• Kemudian buat folder reducers didalam folder src dan buat file index.js

didalam folder reducers A src



• Isi index.js nya

```
import { combineReducers } from 'redux';

export default combineReducers({
    libraries: () => []
});
```



Step 5 (continue)

Import reducers ke App.js

import reducers from './src/reducers';

Kemudian pasang

Sekarang warning diemulatornya akan hilang karena createStore sudah kita kasih reducer



Kemudian buat file LibraryReducer.js didalam folder reducers isinya cuma

```
export default () => [];
```

Kemudian ubah isi index.js di folder reducers jadi

```
import { combineReducers } from 'redux';
import LibraryReducer from './LibraryReducer';
export default combineReducers({
    libraries: LibraryReducer
});
```



 Kemudian buat file LibraryList.json di folder reducers juga, isinya array of objects

```
"id": 0,
   "title": "Webpack",
    "description": "Webpack is a module bundler. It packs CommonJ:
    "id": 1,
   "title": "React",
    "description": "React makes it painless to create interactive
},
   "id": 2,
    "title": "Redux",
    "description": "Redux is a predictable state container for Jav
},
    "id": 3,
    "title": "React-Redux",
    "description": "React-Redux is the official set of bindings be
```

Step 7 (continue)

Import dan pakai LibraryList.json tersebut di LibraryReducer

```
import data from './LibraryList.json';
export default () => data;
```



Kemudian buat file component baru LibraryList.js difolder components

```
import React, { Component } from 'react';
import { View, Text } from 'react-native';
import { connect } from 'react-redux';
class LibraryList extends Component {
    render() {
        console.log(this.props);
        return (
            <View>
                <Text>Library List</Text>
            </View>
const mapStateToProps = state => {
   return { libraries: state.libraries };
};
export default connect(mapStateToProps)(LibraryList);
```



Kemudian import dan pasang LibraryList di App.js

import LibraryList from './src/components/LibraryList';

Muncul di console browser seperti itu =>

```
▼{libraries: Array(9), dispatch: f} i
▶ dispatch: f dispatch(action)
▼libraries: Array(9)
▶ 0: {id: 0, title: "Webpack", description: "V
▶ 1: {id: 1, title: "React", description: "Reacter in the image in the
```



Ubah import di LibraryList.js yang import dari react-native jadi ini :

```
import { ListView } from 'react-native';
```

 Kemudian tambahkan lifeCycleMethod componentWillMount untuk mengisi this.dataSource (dataSource dari class LibraryList, sudah tersedia karena turunan dari class Component di React)

```
componentWillMount() {
    const ds = new ListView.DataSource({
        rowHasChanged: (r1, r2) => r1 !== r2
    });
    this.dataSource = ds.cloneWithRows(this.props.libraries);
}
```



 Kemudian tambahkan function renderRow() diantara render() dan componentWillMount()

```
renderRow(library) {
    return <Text>{library.title}</Text>;
}
```

Lalu pasang ke ListViewnya

```
<ListView
    dataSource={this.dataSource}
    renderRow={this.renderRow}
/>
```

Tech Stack

Redux React-Redux Lodash Redux-Thunk ESLint Babel Axios

Webpack

React



Kemudian buat file ListItem.js difolder yang sama dengan LibraryList.js

```
import React, { Component } from 'react';
import { Text, View } from 'react-native';
class ListItem extends Component {
    render() {
        const { title } = this.props.library;
        return (
            <View>
                <Text>{title}</Text>
            </View>
export default ListItem;
```



Step 12 (continue)

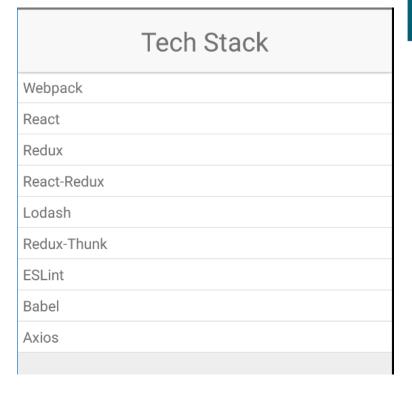
Kemudian import dan pasang ListItem di LibraryList

```
import ListItem from './ListItem';
renderRow(library) {
   return <ListItem library={library} />;
}
```

Tech Stack Webpack React Redux React-Redux Lodash Redux-Thunk ESLint Babel Axios



Kemudian import CardSection di ListItem.js kemudian pasang





Kemudian tambahkan style ke title Textnya

Tech Stack	
Webpack	
	_
React	
Redux	
React-Redux	
Lodash	
Redux-Thunk	
ESLint	
Babel	
Axios	



• Tambahkan style flex: 1 di tag View di App.js, biar ga kepotong isi dari ListView kita



• Buat file Reducer baru namanya SelectionReducer.js di folder reducers

 Kemudian import dan pasang SelectionReducer tersebut di combineReducers di file index.js di folder reducers

```
import SelectionReducer from './SelectionReducer';
export default combineReducers({
    libraries: LibraryReducer,
    selectedLibraryId: SelectionReducer
});
```



 Buat folder baru actions didalam folder src, dan buat file index.js di dalam folder actions tersebut, dan isinya ini:

```
export const selectLibrary = (libraryId) => {
    return {
        type: 'select_library',
        payload: libraryId
     };
};
```

Kemudian import action creators tersebut ke ListItem.js

```
import * as actions from '../actions';
```



• Kemudian import connect dari react-redux di ListItem.js

```
import { Text, View } from 'react-native';
import { connect } from 'react-redux';
import { CardSection } from './common';
import * as actions from '../actions';
```

Kemudian ubah exportnya jadi seperti ini untuk menghubungkan action creator

```
export default connect(null, actions)(ListItem);
```



 Kemudian import TouchableWithoutFeedback dari react-native di ListItem.js dan pasang



• Tambahkan destructure id saat destructure title dari this.props.library

```
const { title, id } = this.props.library;
```

Kemudian tambahkan event onPress pada TouchableWithoutFeedback



 Kemudian tambahkan mapStateToProps di ListItem, dan hubungkan dengan connect()

```
const mapStateToProps = (state) => {
    return { selectedLibraryId: state.selectedLibraryId };
};
export default connect(mapStateToProps, actions)(ListItem);
```

Kemudian tambahkan function renderDescription diatas render



Step 21 (continue)

Kemudian pasang renderDescription tersebut didalam function render

Tech Stack
Webpack
React
React makes it painless to create interactive Uls. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.
Redux
React-Redux
Lodash
Redux-Thunk
ESLint
Babel
Axios



Ubah function mapStateToProps menjadi seperti ini

```
const mapStateToProps = (state, ownProps) => {
  const expanded = state.selectedLibraryId === ownProps.library.id;
  return { expanded };
};
```

Kemudian ubah isi function renderDescription juga



 Import LayoutAnimation, UIManager, dan Platform dari react-native di ListItem.js, dan kemudian tambahkan lifeCycleMethod componentWillUpdate() import {

TouchableWithoutFeedback,

LayoutAnimation,

UIManager,

Text, View,

```
Platform
} from 'react-native';

componentWillUpdate() {
    if (Platform.OS === 'android') {
        UIManager.setLayoutAnimationEnabledExperimental(true);
    }
    LayoutAnimation.spring();
}
```



Finish!!!

• Apps ketiga kita akhirnya selesai hore!!

Tech Stack
Webpack
React
Redux
Redux is a predictable state container for JavaScript apps. It helps you write applications that behave consistently, run in different environments (client, server, and native), and are easy to test.
React-Redux
Lodash
Redux-Thunk
ESLint
Babel
Axios

