

React Native Assignment

Intro

For this assignment, you will use a network API which serves a list of articles in different categories. The main goal of this assessment is to get some hand in experience in React Native and basic components. We are aware of the simplicity of this API and thus the resulting app, so we don't mind if some things are a bit over-engineered. As long as it shows your critical thinking about the quality of code like it's a real project.

Before the coding

Please prepare the following software in your notebook.

1. Version control with Bitbucket and Source tree
 - a. Create account with company email
 - i. <https://bitbucket.org/>
 - b. Install Source tree
 - i. <https://www.sourcetreeapp.com/>
2. nvm
 - a. <https://github.com/nvm-sh/nvm>
3. Node.js
4. Yarn package
 - a. <https://yarnpkg.com/>
5. react-native-cli
 - a. <https://github.com/react-native-community/cli>
6. Debug with react-native-debugger
 - a. <https://github.com/jhen0409/react-native-debugger>
7. Android Studio
8. Xcode with Cocoapods
9. Visual Studio Code
 - a. <https://code.visualstudio.com/>

Develop with

Please use the following techniques whenever necessary:

Essential		
UI Rendering	Routing	Language
react-native@0.63 <ul style="list-style-type: none">UI layout with flexboxReact Native components (FlatList, ScrollView, Touchable, Image, TextInput, etc.)	react-navigation@5.x <ul style="list-style-type: none">All library under react-navigation https://github.com/react-navigation/react-navigation	typescript <ul style="list-style-type: none">Create new React Native project with TypeScript template
Configuration		
react-native-config (optional) <ul style="list-style-type: none">Configure the environment https://github.com/luggit/react-native-config		

Advanced		
State Management	Localization	Others
redux https://redux.js.org/ react-redux https://redux.js.org/basics/usage-with-react reduct-saga (optional) https://redux-saga.js.org immutable-js (optional) https://github.com/immutable-js/immutable-js	i18next https://github.com/i18next/i18next react-i18next https://react.i18next.com/	Other libraries what you need

Backlog

1. Login page:
 - a. Create a dummy login page to allow users to input their login name and password by test input. If both text input is filled and the login button is pressed, it will allow users to process to the category listing page. If either input is empty, it should show a warning message to remain users.
2. Get article information from API
 - a. <http://dev.prismcubehk.com/hkcsd/index.php/api/visitStatusHandleInArticles/getAll?lang=tc>
 - b. The articles are divided in 5 categories with key ("healthCare", "stationary", "snack", "infantArticle" and "others"), their display name and item list are placed at `category -> names` and `items` respectively. Try to obtain the article information by network request and store in reducer.
3. Category listing page:
 - a. In this page it should use ListView to list all categories with their display name obtained from the API. If the category is pressed, It will go to the item listing page.
4. Item listing page:
 - a. In this page it should use ListView to list all articles in the categories. If the article is pressed, It will go to the item detail page.
5. Item detail page:
 - a. In this page it should show the article information including image, name, description. The information should be presented in a ScrollView to allow scrolling if the screen height is not enough to show all information in a page.

Backlog (optional)

1. Functional component:
 - a. Create components without class
 - b. Using hooks
2. Allow to change language