React Native

Desenvolvimento de Software e Sistemas Móveis (DSSMV)

Licenciatura em Engenharia de Telecomunicações e Informática LETI/ISEP

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Disclaimer

Material and Slides

Some of the material/slides are adapted from various:

- Presentations found on the internet;
- Books;
- Web sites;
- •

Outline

- 1 To run XXX app
- 2 Conditional Rendering
- Interacting with REST Web Services
- 4 ToDos REST Client App
- Mavigation
- 6 Bibliography

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Running

- Unzip project file(creating the TP13 folder) unzip xxx.zip
- Create a new folder named TP13_projects
- cd TP13_projects
- For each <project_name> into TP13 folder
 - Create a new project
 npx @react-native-community/cli@latest init
 <project name>
 - Copy the following files and folders from TP13/project_name>
 to TP3_projects/project_name>
 - App.js and index.js files as well as other.js source code files.

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- screens/, components/, service/, and context/ folders.
- Launch Metro npm start
- Launch app in Android device (in another terminal)
 npm run android

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Several approaches





Check: TP13.zip(ConditionalRendering)

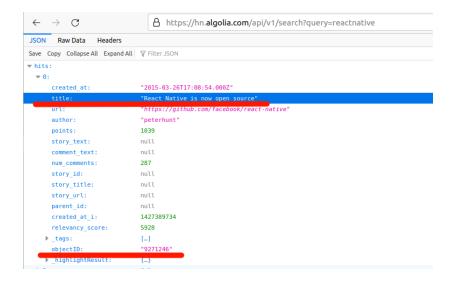
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Fetching data (I)

• Fetching news from Hacker News (https: //hn.algolia.com/api/v1/search?query=reactnative)



Fetching data (II)



REST Client (I)



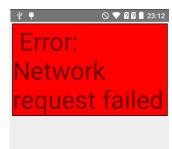
REST Client (II)



ψ 🏺 🚫 🛡 🛭 23:32
Query: reactnative
React Native is now open source
React Native for Android
React Native for Windows and Mac
Building all of our new mobile apps using React Native
React Native for OS X
React Native at Instagram
Proton Native - React Native for the desktop
Introducing React Native [video]
First Impressions Using React Native
Introducing Create React Native App
Shipping a Neural Network on iOS with CoreML, PyTorch, and React Native
React Native at Airbnb
Show HN: React Native Express – Learn React Native Through Interactive Examples
Deco Software - React Native IDE

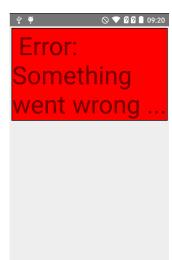
REST Client (III)





REST Client (IV)





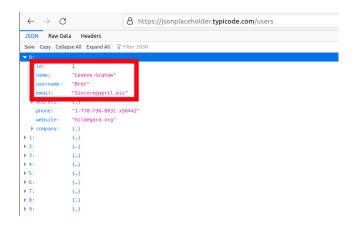
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Apps

- fetch: Check:TP13.zip(Fetch)
- fetch, async, await: Check:TP13.zip(AsyncFetch)
- axios: Check:TP13.zip(Axios)
- axios, async, await: Check:TP13.zip(AsyncAxios)

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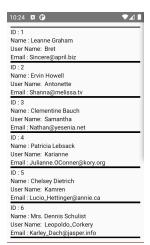
Fetching Data (I)



Fetching Data (II)

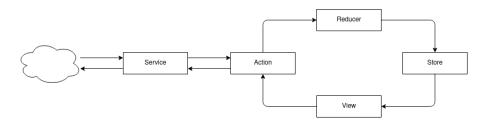


Output





Flux Architecture



Check: TP13.zip(ToDos, ToDosRedux)

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Stack

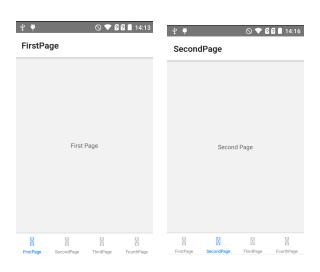






Check: TP13.zip(NavStack)

Tab



Check: TP13.zip(NavTab)

Drawer





Check: TP13.zip(NavDrawer)

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Resources

- David Flanagan, "JavaScript: The Definitive Guide", O'Reilly Media, Inc., 2020
- Adam Boduch and Roy Derks, "React and React Native: A complete hands-on guide to modern web and mobile development with React.js, 3rd Edition", Packt Publishing, 2020
- Dan Ward, "React Native Cookbook Second Edition Step-by-step recipes for solving common React Native development problems", ,Packt Publishing, 2019
- https://reactnative.dev/
- https://reactjs.org/
- https://reactnavigation.org/