
Passo a passo para realizar a atividade “API-REACTNATIVE-0705”

Acesse o endereço <https://github.com/lucasalu/API-REACTNATIVE-0705>

Endereço do GIT anterior = https://github.com/lucasalu/API_NODEJS_0705

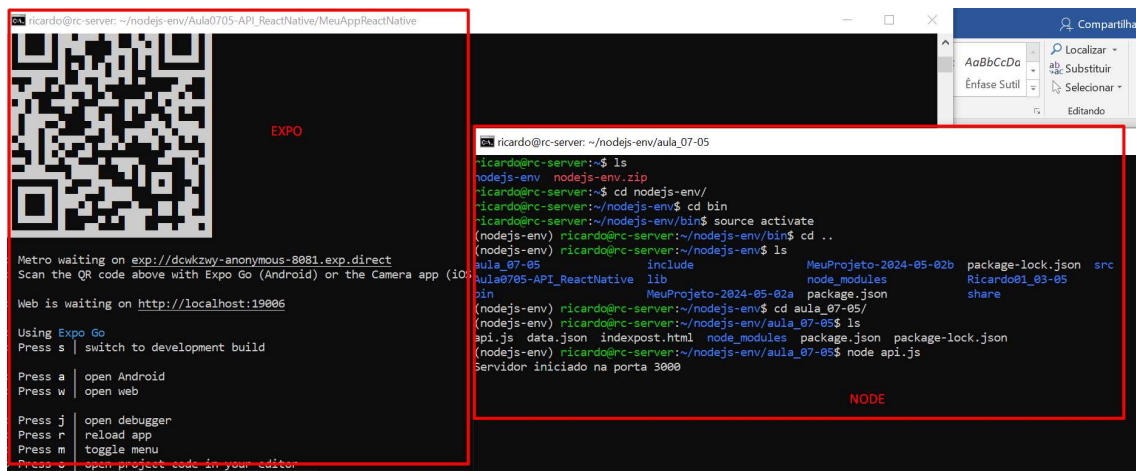
INFORMAÇÃO IMPORTANTE:

Este novo exercício, é um COMPLEMENTO do exercício anterior.
No exercício anterior, tínhamos um arquivo “.HTML” que tinha nosso FORM.

Esse FORM fazia o papel do “front” e através do NODE (na porta 3000) nós observávamos o resultado da atualização do arquivo JASON.

Agora, como “front” teremos o REACTNATIVE. Ou seja: Para realizar este exercício, temos que deixar um TERMINAL aberto rodando o NODE e ao invés do HTML, vamos fazer um REACTNATIVE.

Este manual foca na “segunda-parte”, a troca do HTML pelo REACT NATIVE:



(no final, teremos dois terminais rodando. Um do exercício anterior e outro com o REACT (expo):

Veja o passo a passo abaixo:

Antes de começarmos, sugerimos que você utilize o PROMPT DE COMANDOS do Windows (Prompt do DOS) para conectar no seu server pelo SSH.

Para isso, acesse seu LINUX (server) e através do comando “ip addr” veja qual é seu IP:

```
ricardo@rc-server:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP>
    link/loopback 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host
        valid_lft forever prefered_lft forever
    inet6 ::1/128 scope host
        valid_lft forever prefered_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP>
    link/ether 08:00:27:cb:a2:82
    inet 192.168.1.174/24 brd 192.168.1.255 scope global
        valid_lft forever prefered_lft forever
    inet6 fe80::a00:27ff:feeb:82/64 scope link
        valid_lft forever prefered_lft forever
ricardo@rc-server:~$
```

```
C:\Users\Instrutores>ssh ricardo@192.168.1.174
Microsoft Windows [versão 10.0.19045.4291]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\Instrutores>ssh ricardo@192.168.1.174
ricardo@192.168.1.174's password:
Permission denied, please try again.
ricardo@192.168.1.174's password:
```

Acesse o seu SERVER (ubuntu) e acesse com o seu usuário:

```
C:\Users\Instrutores>ssh ricardo@rc-server
ricardo@rc-server:~$
```

Após acessar seu UBUNTU SERVER, precisa ativar o NODE:

```
C:\Users\Instrutores>ssh ricardo@rc-server
ricardo@rc-server: ~/nodejs-env/bin

ricardo@rc-server:~$ ls
nodejs-env  nodejs-env.zip
ricardo@rc-server:~$ cd nodejs-env/
ricardo@rc-server:~/nodejs-env$ cd bin
ricardo@rc-server:~/nodejs-env/bin$ source activate
```

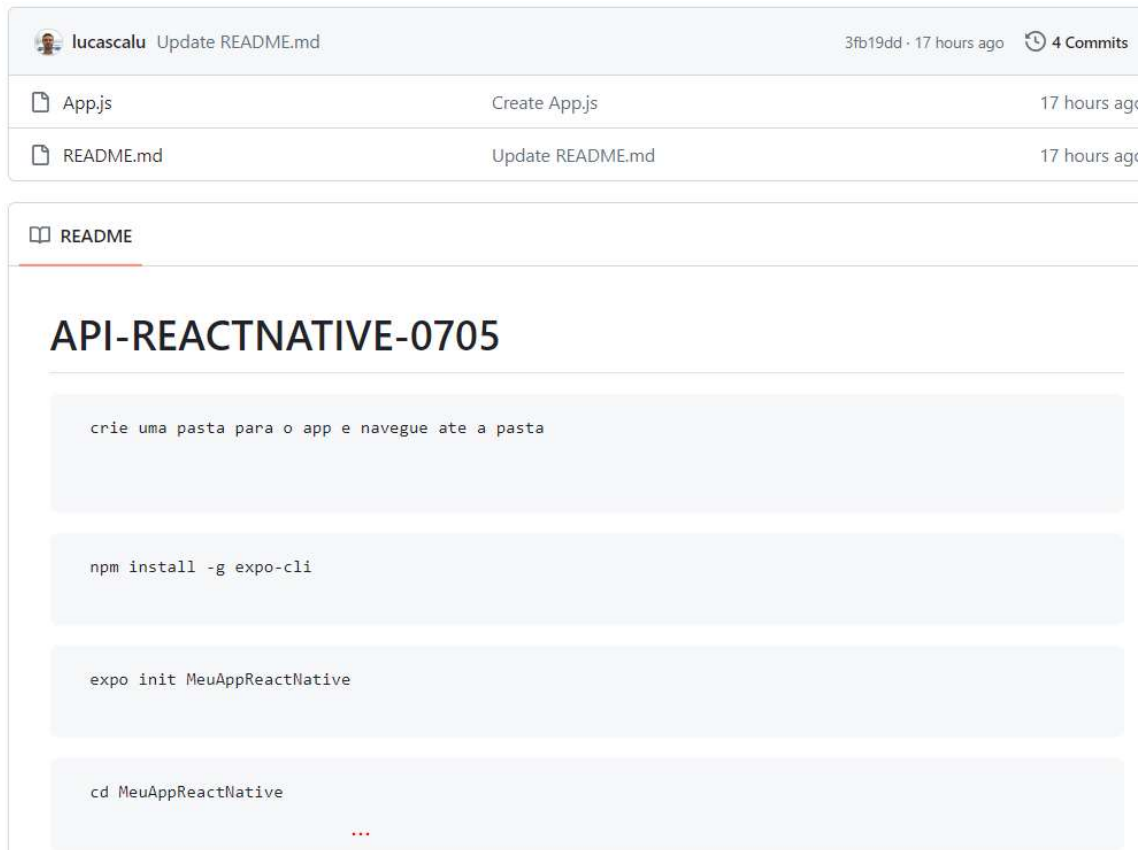
```
C:\Users\Instrutores>ssh ricardo@rc-server
ricardo@rc-server: ~/nodejs-env

ricardo@rc-server:~$ ls
nodejs-env  nodejs-env.zip
ricardo@rc-server:~$ cd nodejs-env/
ricardo@rc-server:~/nodejs-env$ cd bin
ricardo@rc-server:~/nodejs-env/bin$ source activate
(nodejs-env) ricardo@rc-server:~/nodejs-env/bin$ cd ..
(nodejs-env) ricardo@rc-server:~/nodejs-env$
```

Sair do diretório BIN, com o comando “cd ..”

Para começar a fazer o exercício <https://github.com/lucasalu/API-REACTNATIVE-0705> comece criando um diretório:

Abaixo um print do GIT, onde possui o enunciado:



Comecemos pelo item abaixo:

crie uma pasta para o app e navegue ate a pasta

ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative

```
(nodejs-env) ricardo@rc-server:~/nodejs-env$ mkdir Aula0705-API_ReactNative  
(nodejs-env) ricardo@rc-server:~/nodejs-env$ cd Aula0705-API_ReactNative/  
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$
```

npm install -g expo-cli

ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative

```
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ npm install -g expo-cli  
(nodejs-env) idealTree:ora: sill placeDep node_modules/expo-cli strip-ansi@6.0.1 OK for: expo-cli@6.3.10 want: ^6.0.0
```

```
expo init MeuAppReactNative
```

```
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random()
which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated expo-cli@6.3.10: The global Expo CLI has been superseded by 'npx expo' and eas-cli
changed 1274 packages in 30s
166 packages are looking for funding
  run 'npm fund' for details
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ expo init MeuAppReactNative_
```

```
ca. ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative
changed 1274 packages in 30s
166 packages are looking for funding
  run 'npm fund' for details
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ expo init MeuAppReactNative
WARNING: The legacy expo-cli does not support Node +17. Migrate to the new local Expo CLI: https://blog.expo.dev/the-new-expo-cli-f4250d8e3421.

The global expo-cli package has been deprecated.

The new Expo CLI is now bundled in your project in the expo package.
Learn more: https://blog.expo.dev/the-new-expo-cli-f4250d8e3421.

To use the local CLI instead (recommended in SDK 46 and higher), run:
> npx expo <command>

Migrate to using:
> npx create-expo-app --template

? Choose a template: > - Use arrow-keys. Return to submit.
  ----- Managed workflow -----
  blank a minimal app as clean as an empty canvas
  blank (TypeScript) same as blank but with TypeScript configuration
  tabs (TypeScript) several example screens and tabs using react-navigation and TypeScript
  ----- Bare workflow -----
  minimal bare and minimal, just the essentials to get you started
```

(aparecendo esta tela, deixe o valor PADRAO (Blank) e aperte ENTER.


```
166 packages are looking for funding
  run `npm fund` for details
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ expo init MeuAppReactNative
WARNING: The legacy expo-cli does not support Node +17. Migrate to the new local Expo CLI: https://blog.expo.dev/f4250d8e3421.
```

```
The global expo-cli package has been deprecated.

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To use the local CLI instead (recommended in SDK 46 and higher), run:
> npx expo <command>
```

```
Migrate to using:
> npx create-expo-app --template

Choose a template: > blank a minimal app as clean as an empty canvas
Downloaded template.
Using npm to install packages.
Installing JavaScript dependencies.
```

```
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> npx expo <command>
```

```
Migrate to using:
> npx create-expo-app --template

Choose a template: > blank a minimal app as clean as an empty canvas
Downloaded template.
Using npm to install packages.
Installed JavaScript dependencies.

Your project is ready!

To run your project, navigate to the directory and run one of the following npm commands.

- cd MeuAppReactNative
- npm start # you can open iOS, Android, or web from here, or run them directly with the commands below.
- npm run android
- npm run ios # requires an iOS device or macOS for access to an iOS simulator
- npm run web
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$
```

cd MeuAppReactNative

```
Selecione o arquivo:
Fonte: ~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative
Parâmetro:

(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ (nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ cd MeuAppReactNative
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative$
```

```
npm install axios
```

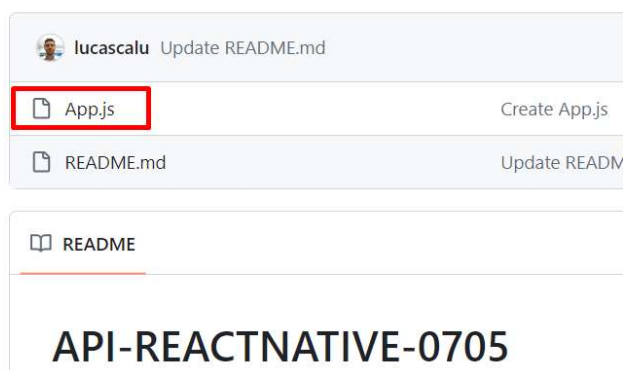
```
ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ (nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative$ cd MeuAppReactNative
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative$ npm install axios
added 4 packages, and audited 1233 packages in 2s
121 packages are looking for funding
  run `npm fund` for details
5 moderate severity vulnerabilities
To address all issues (including breaking changes), run:
  npm audit fix --force
Run `npm audit` for details.
```

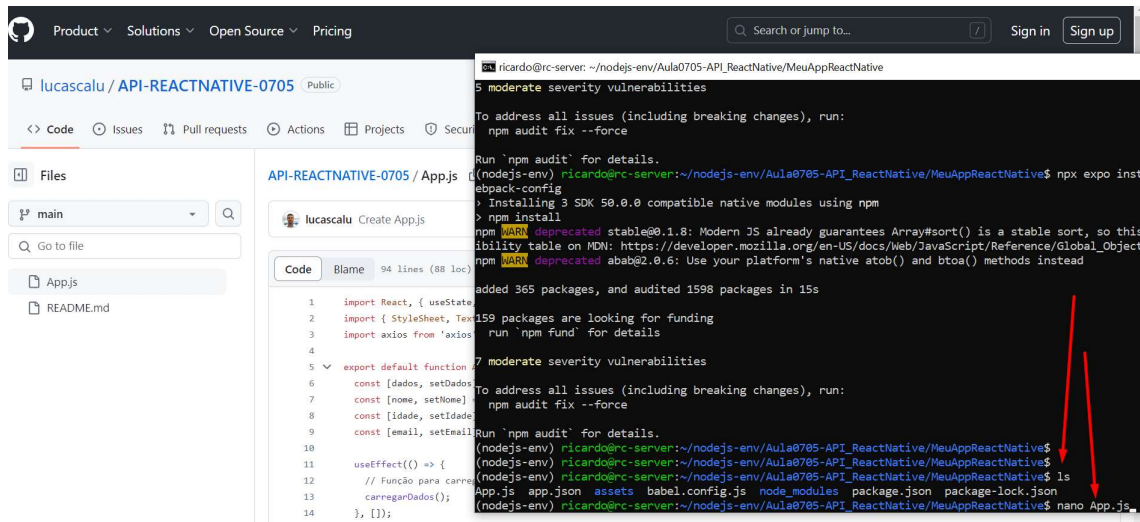
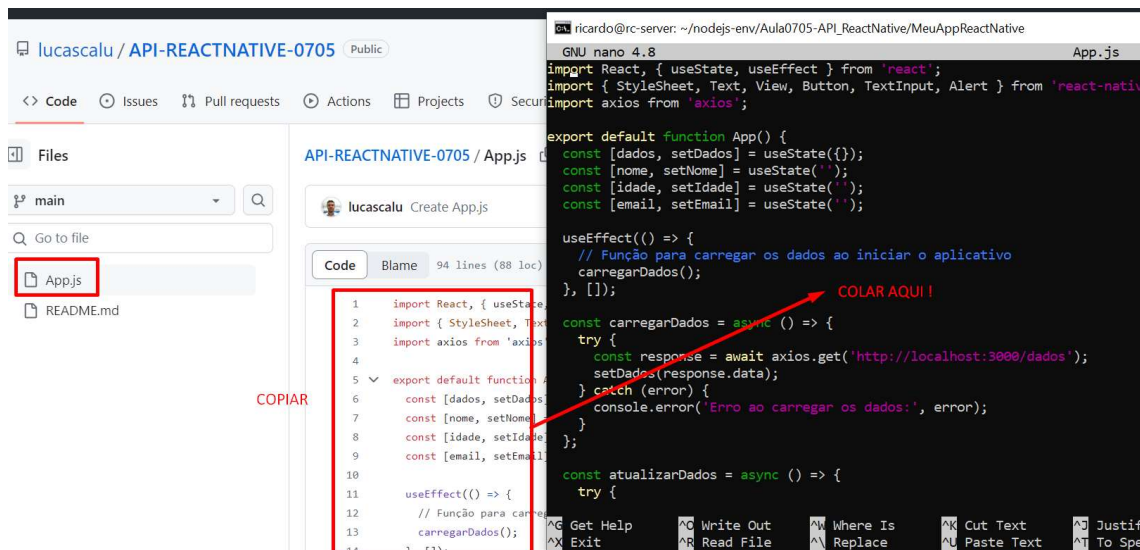
```
npx expo install react-dom react-native-web @expo/webpack-config
```

```
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative$ npx expo install react-dom react-native-web @expo/webpack-config
```

```
altere o código
```

(Na parte de cima do GIT, possui um arquivo chamado “App.js”. É necessário copiar este código e substituir, alterando assim o código:



Onde acharmos o endereço LOCALHOST, substitua pelo seu ip:

```
useEffect(() => {
  // Função para carregar os dados ao iniciar o aplicativo
  carregarDados();
}, []);

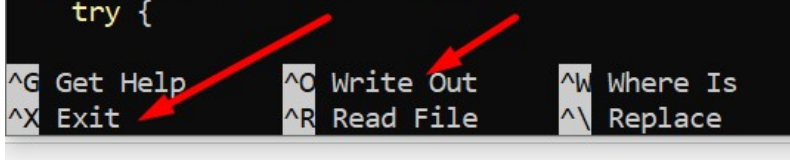
const carregarDados = async () => {
  try {
    const response = await axios.get('http://192.168.1.174:3000/dados');
    setDados(response.data);
  } catch (error) {
    console.error('Erro ao carregar os dados:', error);
  }
};
```

```
const carregarDados = async () => {
  try {
    const response = await axios.get('http://192.168.1.174:3000/dados');
    setDados(response.data);
  } catch (error) {
    console.error('Erro ao carregar os dados:', error);
  }
};

const atualizarDados = async () => {
  try {
    await axios.post('http://localhost:3000/atualizar', {
      nome,
      idade,
      email
    });
    // Recarregar os dados após a atualização
    carregarDados();
    Alert.alert('Dados atualizados com sucesso');
  } catch (error) {
    console.error('Erro ao atualizar os dados:', error);
  }
};
```

Após,

```
const atualizarDados = async () => {
  try {
    // ...
  }
}
```



Salvar e sair...

```
npx expo start --tunnel
```

```
ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative$ npx expo start --tunnel
```



```
ricardo@rc-server: ~/nodejs-env/Aula0705-API_ReactNative/MeuAppReactNative
(nodejs-env) ricardo@rc-server:~/nodejs-env/Aula0705-API_ReactNative/MeuAppRea
5-API_ReactNative/MeuAppReactNative$ npx expo start --tunnel
Starting project at /home/ricardo/nodejs-env/Aula0705-API_ReactNative/MeuAppRe
Starting Metro Bundler
Tunnel connected.
Tunnel ready.

> Metro waiting on exp://dcwkzwy-anonymous-8081.exp.direct
> Scan the QR code above with Expo Go (Android) or the Camera app (iOS)

> Using Expo Go
> Press s | switch to development build

> Press a | open Android
```

Abra o navegador e informe seu ip:19006



Se tudo deu certo, aparecerá conforme imagem abaixo:

Não seguro 192.168.1.174:19006

Nome:

Idade:

Email:

Novo Nome

Novo Idade

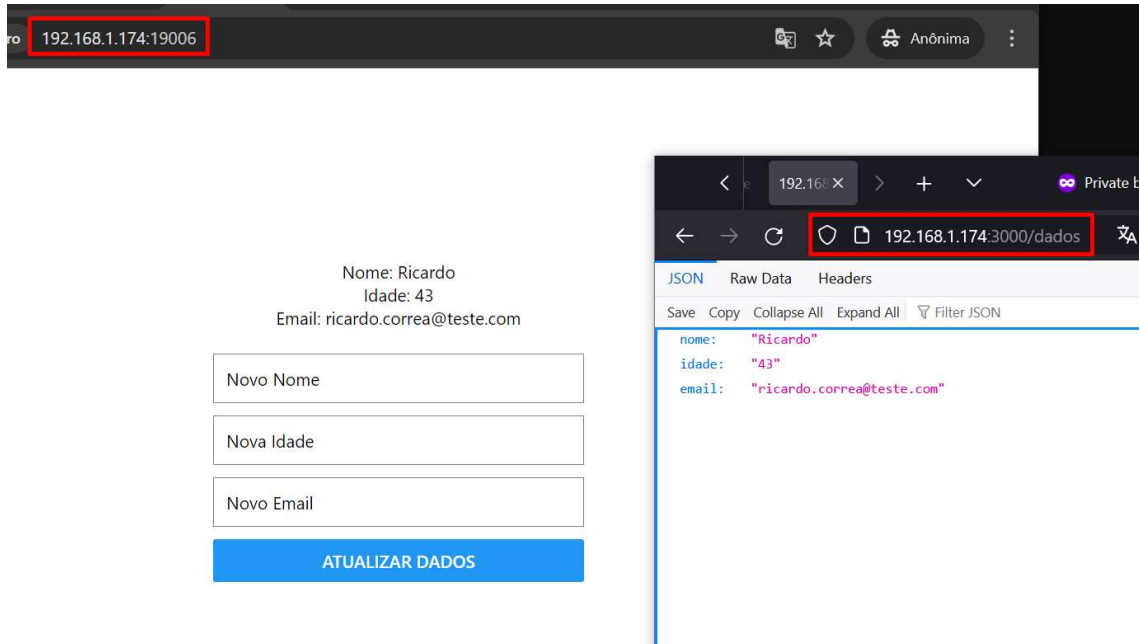
Novo Email

ATUALIZAR DADOS

Porém, agora para vermos a interação entre “FRONT” e “BACK”, teremos que acessar dois endereços:

- 1) <http://192.168.x.y:19006/> (*substitua com o SEU ip*) → Servirá para usar o REACTNATIVE para digitar um valor no FORM;
- 2) Semelhante ao exercício anterior, vamos abrir outra aba no navegador e usar o endereço <http://192.168.x.y:3000/dados> (*substitua com o SEU ip*) → Servirá ver os dados (JSON e ver as alterações):

Para testar, informe os dados no FORMULÁRIO e depois clique em **ATUALIZAR DADOS**.



The image shows two browser windows. The top window displays a web form with the following content:

Nome: Ricardo
Idade: 43
Email: ricardo.correa@teste.com

Below the form are three input fields labeled "Novo Nome", "Nova Idade", and "Novo Email", followed by a blue button labeled "ATUALIZAR DADOS".

The bottom window shows the browser's developer tools with the "JSON" tab selected. The address bar shows the URL 192.168.1.174:3000/dados. The JSON response is as follows:

```
{
  "nome": "Ricardo",
  "idade": "43",
  "email": "ricardo.correa@teste.com"
}
```