

Missão Prática | Nível 1 | Mundo 4

Adicionando interatividade com o React Native.

Microatividade 1: Configurar o ambiente de desenvolvimento React Native

Microatividade 2: Implementar a funcionalidade de entrada de texto em um componente React Native

Microatividade 3: Implementar um Componente de Lista Dinâmica (ScrollView)

Microatividade 4: Criando o visualizador de listas

Microatividade 5: Empregar imagens, seja para exibir gráficos, ícones, fotos ou outros elementos visuais em um aplicativo React Native

Objetivos da Prática

- Configurar o ambiente de desenvolvimento React Native.
 - Implementar a funcionalidade de entrada de texto em um componente React Native.
 - Implementar um Componente de Lista Dinâmica (ScrollView);
 - Implementar componentes React Native para exibir informações de forma dinâmica em listas;
 - Empregar elementos visuais em um aplicativo React Native.
-

Códigos

- App.js

```
import logo from './logo.svg';
import './App.css';
import CatApp from './CatApp';
import Cadastro from './Cadastro';
import Lista from './Lista';
import Inicial from './Inicial';
import { NavigationContainer, DarkTheme } from '@react-navigation/native';
import { createStackNavigator } from '@react-navigation/stack';

const Stack = createStackNavigator();

function App() {
  return (
    //<Cat/>
    //<CatApp/>
    <NavigationContainer theme={DarkTheme}>
      <Stack.Navigator initialRouteName="Inicial">
        <Stack.Screen name="Home" component={Inicial} />
        <Stack.Screen name="Cadastro" component={Cadastro} />
        <Stack.Screen name="Lista" component={Lista}/>
      </Stack.Navigator>
    </NavigationContainer>
  );
}

export default App;
```

```
export default App;
```

- Cadastro.jsx

```
import React, { useState } from 'react';
import { Text, Button, Image, TextInput, View, Platform, StyleSheet, Alert } from 'react-native';
import AsyncStorage from '@react-native-async-storage/async-storage';
import { createElement } from 'react';

const Cadastro = () => {

  const [alerta, setAlerta] = useState('');
  const [fornecedor, setFornecedor] = useState({
    nome: '',
    endereco: '',
    contato: '',
    categorias: ''
  });

  const [image, setImage] = useState(null);

  const handleInputChange = (field, value) => {
    setFornecedor({
      ...fornecedor,
      [field]: value,
    });
  };

  const selecionaImagem = Platform.OS === 'web' ? (event) => {
    setImage(URL.createObjectURL(event.target.files[0]));
  } : () => {
    ImagePicker.openPicker({
      width: 300,
      height: 400,
      cropping: true
    }).then(image => {
      setImage(image.path);
    });
  };

  const handleSubmit = async () => {
    try {
      const existingSuppliers = await AsyncStorage.getItem('@fornecedor');
      let newSuppliers = JSON.parse(existingSuppliers);
      if (!newSuppliers || !Array.isArray(newSuppliers)) {
        newSuppliers = [];
      }
      newSuppliers.push({ ...fornecedor, image });
      await AsyncStorage.setItem('@fornecedor',
        JSON.stringify(newSuppliers));
      setFornecedor({nome:'',
        endereco:'',
        contato:'',
        categorias:''});
      setAlerta('Usuario Cadastrado! ')
    } catch (e) {

```

```

        console.log(e);
    }
};

let ImagePicker;
if (Platform.OS !== 'web') {
    ImagePicker = require('react-native-image-crop-picker').default;
};

return (
    <View style={styles.container}>
        <View>
            <Text style={styles.label}>Nome:</Text>
            <TextInput
                style={styles.input}
                value={fornecedor.nome}
                onChangeText={(value) => handleInputChange('nome', value)}
            />
        </View>
        <br />
        <View>
            <Text style={styles.label}>Endereço:</Text>
            <TextInput
                style={styles.input}
                value={fornecedor.endereco}
                onChangeText={(value) => handleInputChange('endereco', value)}
            />
        </View>
        <br />
        <View>
            <Text style={styles.label}>Contato:</Text>
            <TextInput
                style={styles.input}
                value={fornecedor.contato}
                onChangeText={(value) => handleInputChange('contato', value)}
            />
        </View>
        <br />
        <View>
            <Text style={styles.label}>Categorias:</Text>
            <TextInput
                style={styles.input}
                value={fornecedor.categorias}
                onChangeText={(value) => handleInputChange('categorias', value)}
            />
        </View>
        <br />
        {image && <Image source={{ uri: image }} style={styles.image} />}
        {Platform.OS === 'web' ? (
            <input type="file" accept="image/*" onChange={selecionaImagem} />
        ) : (
            <Button title="Selecionar Imagem" onPress={selecionaImagem} />
        )}
        <br />
        <Button title="Cadastrar" onPress={handleSubmit}>
        />
        <Text>{alerta}</Text>
    </View>
);

```

```

};

const styles = StyleSheet.create({
  container: {
    flex: 1,
    padding: 10,
    backgroundColor: '#F5FCFF',
  },
  label: {
    width: 100,
    marginRight: 10,
    fontSize: 16,
  },
  input: {
    flex: 1,
    height: 40,
    borderColor: 'gray',
    borderWidth: 1,
    paddingLeft: 10,
  },
  image: {
    width: 20,
    height: 200,
    marginBottom: 20,
  },
});
}

export default Cadastro;

```

- Inicial.jsx

```

import React from 'react';
import { View, Button } from 'react-native';
import { useNavigation } from '@react-navigation/native';

function Inicial() {
  const navigation = useNavigation();

  return (
    <View
      style={{{
        backgroundColor: 'white',
      }}>
    <View
      style = {{{
        padding:10,
        width:300
      }}>
    <Button
      title="Cadastrar Fornecedor"
      onPress={() => navigation.navigate('Cadastro')}
    />
    </View>
    <View
      style= {{{
        padding:10,
        width:300
      }}>
  
```

```

        }
      >
      <Button
        title="Lista de Fornecedores"
        onPress={() => navigation.navigate('Lista')}
      />
    </View>
  </View>

);

}

export default Inicial;

```

- Lista.jsx

```

import React, { useState, useEffect } from 'react';
import { Text, View, FlatList, TextInput, Image, StyleSheet, Button } from
'react-native';
import AsyncStorage from '@react-native-async-storage/async-storage';

const Lista = () => {
  const [fornecedores, setFornecedores] = useState([]);
  const [localFornecedor, setLocalFornecedor] = useState([]);
  const [search, setSearch] = useState('');

  useEffect(() => {
    const fetchFornecedores = async () => {
      try {
        const jsonValue = await AsyncStorage.getItem('@fornecedor')
        setFornecedores(jsonValue != null ? JSON.parse(jsonValue) : []);
      } catch(e) {
        console.log(e);
      }
    }
    fetchFornecedores();
  }, []);

  useEffect(() => {
    setLocalFornecedor(
      fornecedores.filter((fornecedor) =>
        fornecedor.nome.toLowerCase().includes(search.toLowerCase())
      )
    );
  }, [search, fornecedores]);

  const deleteFornecedor = (index) => {
    const itensCopy = Array.from(fornecedores);
    itensCopy.splice(index, 1);
    setFornecedores(itensCopy);
    AsyncStorage.setItem('@fornecedor', JSON.stringify(fornecedores));
    //AsyncStorage.removeItem('@fornecedor');
  }

  const renderItem = ({ item, index }) => (
    <View style={[styles.itemContainer, {backgroundColor: index % 2 === 0 ?
      '#e0ffff' : '#778899'}]}>

```

```

        <Button
          title="Excluir"
          onPress={() => deleteFornecedor(index)}
        />
        <Text style={styles.itemText}>{item.nome}</Text>
        <Text style={styles.itemText}>{item.endereco}</Text>
        <Text style={styles.itemText}>{item.contato}</Text>
        <Text style={styles.itemText}>{item.categorias}</Text>
        <Image source={item.image ? { uri: item.image } :
          require('./logo.svg')} style={styles.image} />
      </View>
    );
  };

  return (
    <View style={styles.container}>
      <TextInput
        style={styles.input}
        value={search}
        onChangeText={setSearch}
        placeholder="Pesquisar"
      />
      <FlatList
        data={localFornecedor}
        renderItem={renderItem}
        keyExtractor={(item) => item.nome}
      />
    </View>
  );
};

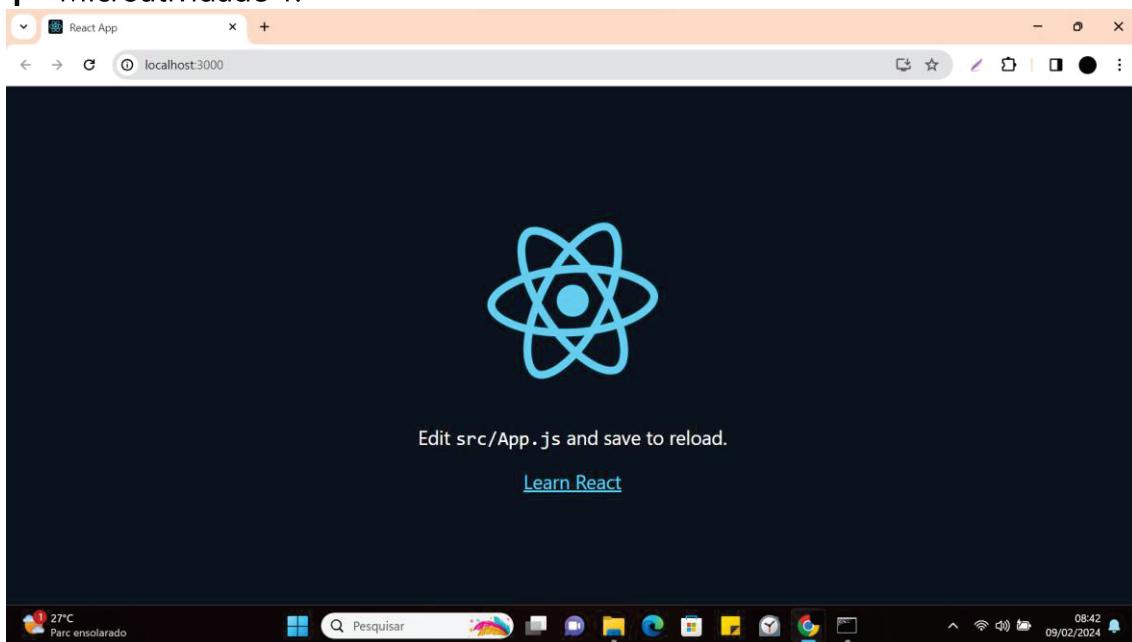
const styles = StyleSheet.create({
  container: {
    flex: 1,
    padding: 10,
    backgroundColor: 'white',
  },
  input: {
    height: 30,
    width: 500,
    borderColor: 'black',
    borderWidth: 1,
    paddingLeft: 1,
    marginBottom: 5,
  },
  itemContainer: {
    flex: 1,
    flexDirection: 'row',
    paddingBottom: 1,
  },
  image: {
    width: 50,
    height: 50,
    marginRight: 1,
  },
  itemText: {
    flex: 1,
    fontSize: 20,
  },
});

```

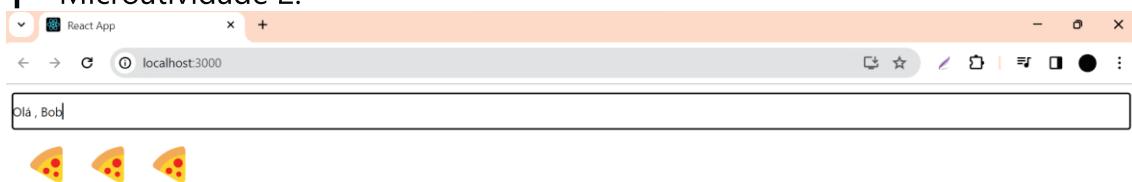
```
export default Lista;
```

Resultados:

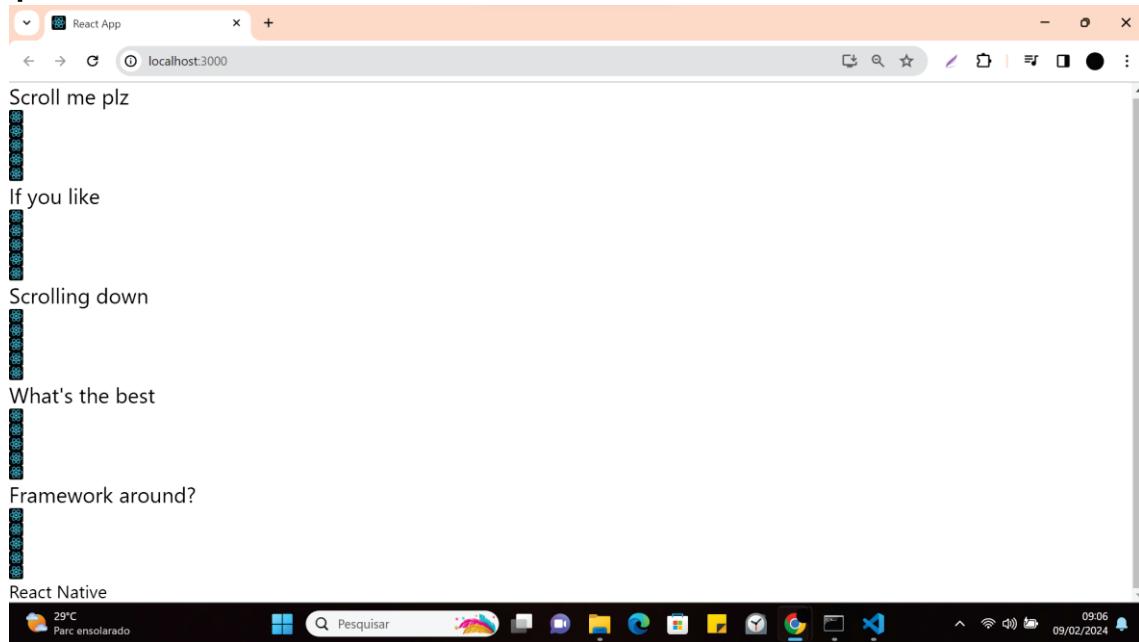
► Microatividade 1:



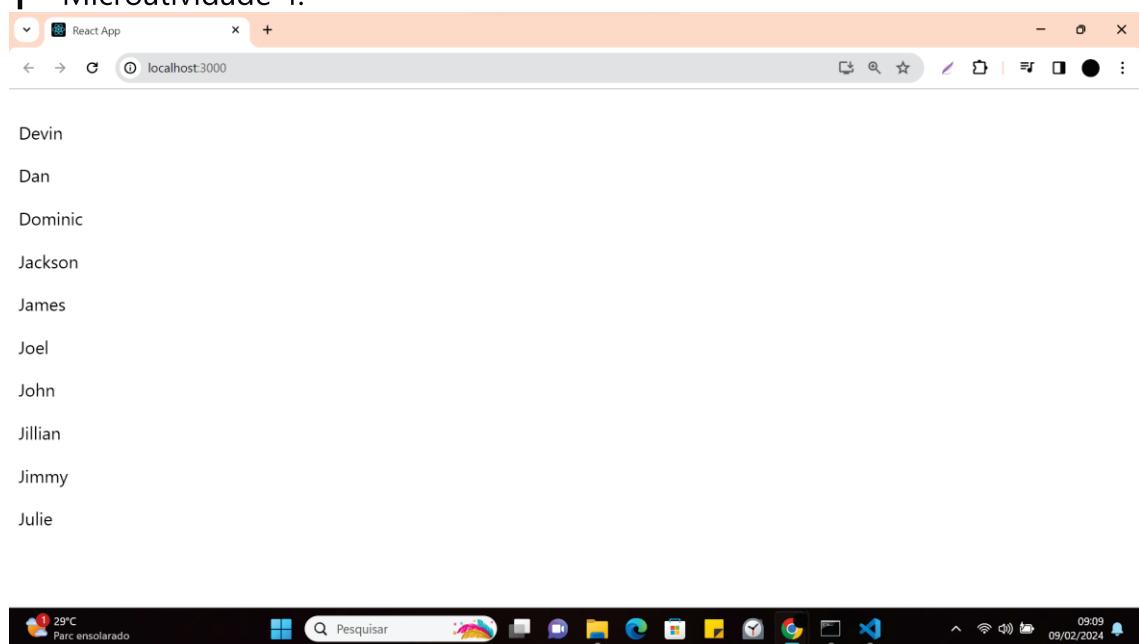
► Microatividade 2:

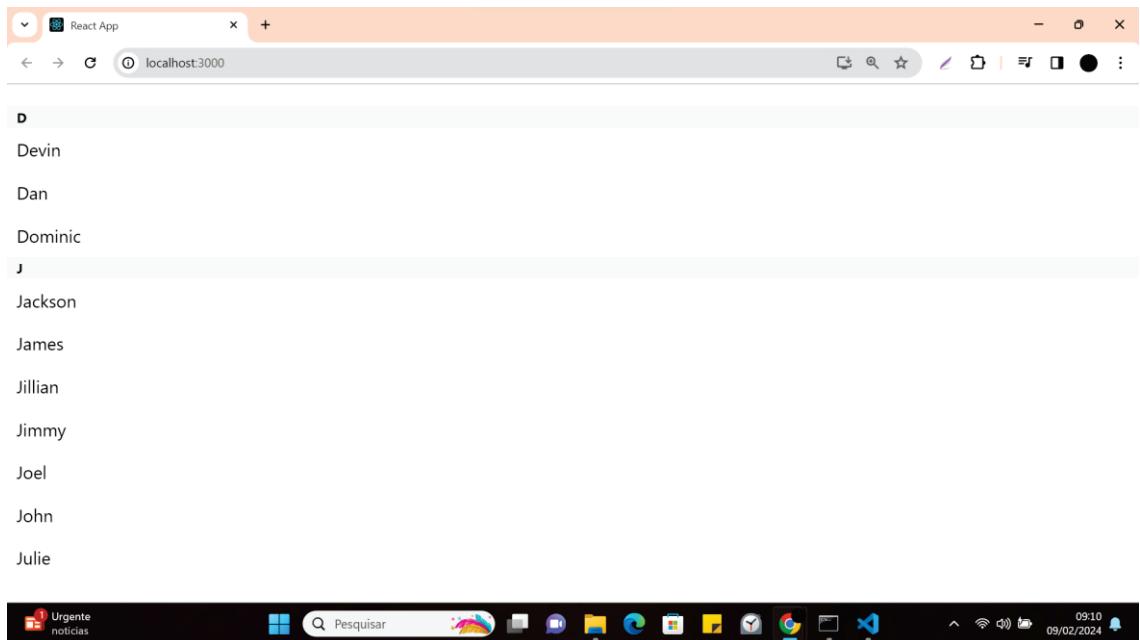


► Microatividade 3:

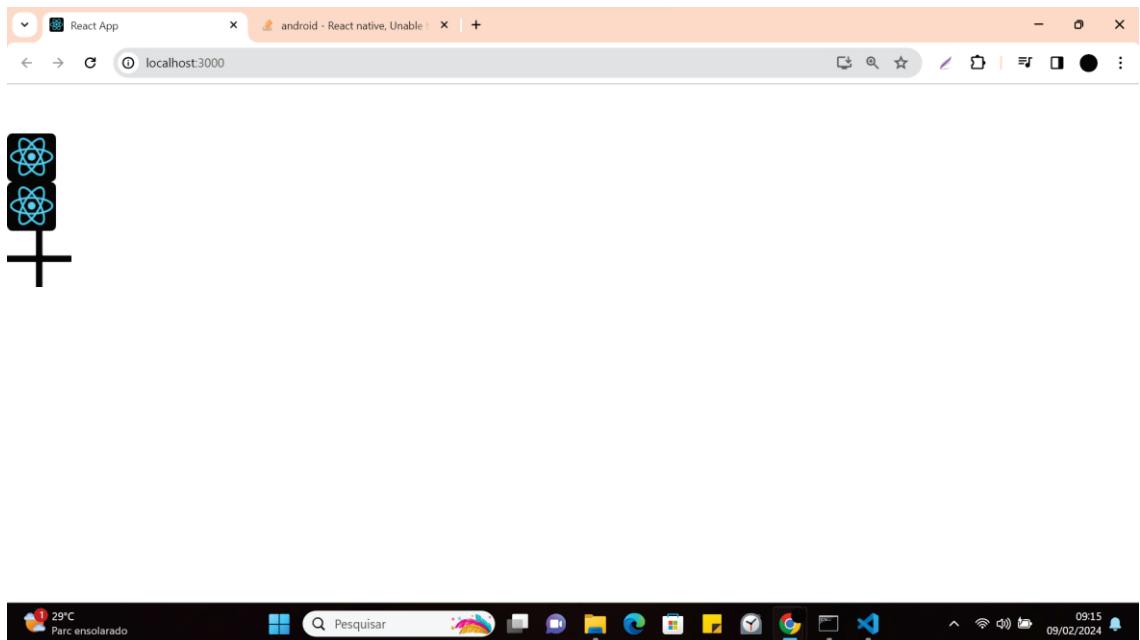


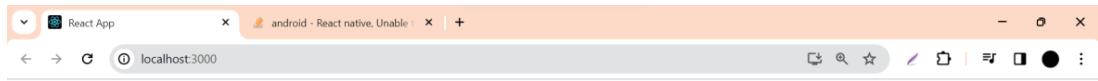
► Microatividade 4:



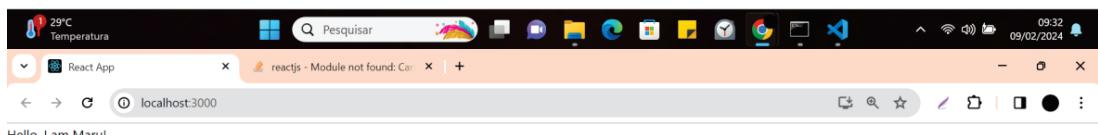
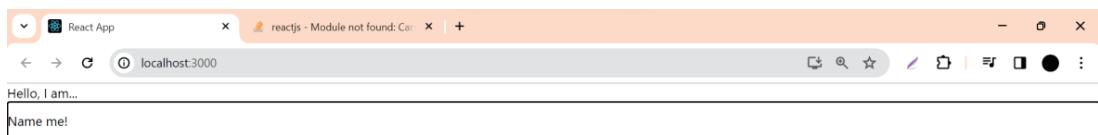


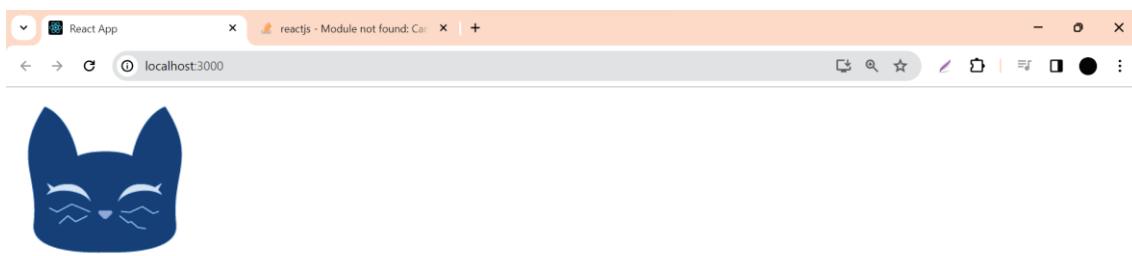
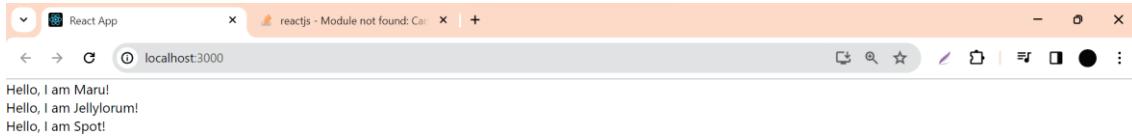
► Microatividade 5:





► Cadastro App:





Hello, I am your cat!



Cadastro

localhost:3000

Nome:

Endereço:

Contato:

Categorias:

Escolher arquivo Nenhum arquivo escolhido

CADASTRAR

28°C Temperatura

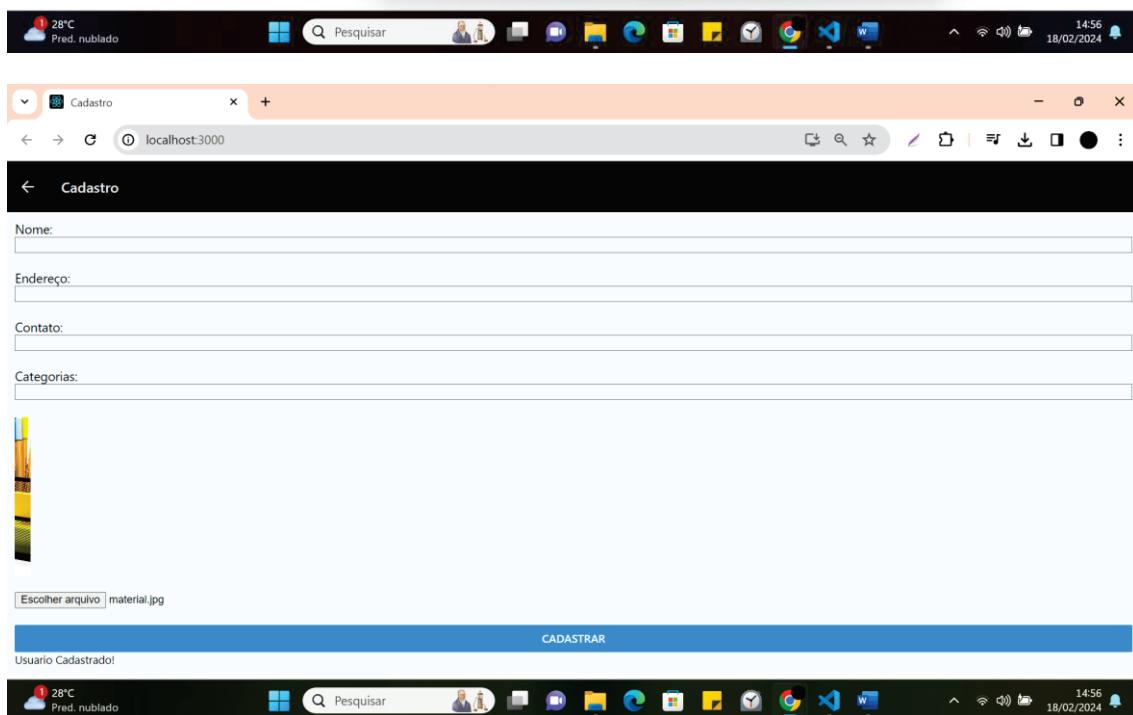
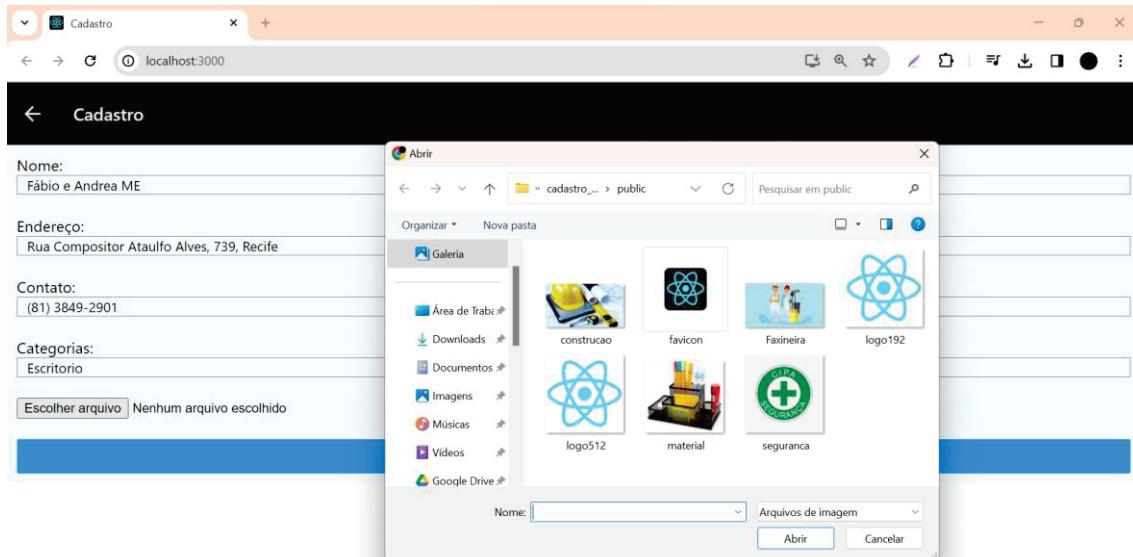
Pesquisar

Lista

localhost:3000

Pesquisar





Screenshot of a web browser showing a list of companies. The page title is "Lista". A search bar at the top says "Pesquisar".

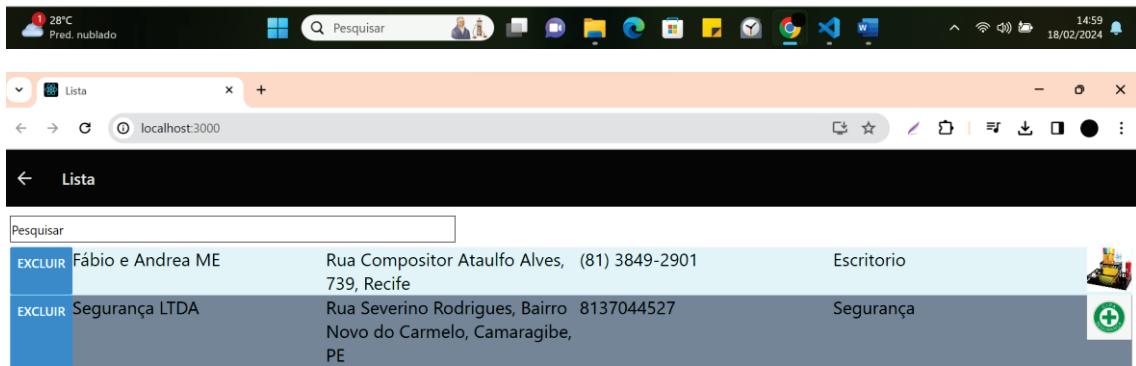
EXCLUIR	Fábio e Andrea ME	Rua Compositor Ataulfo Alves, (81) 3849-2901 739, Recife	Escritorio	
EXCLUIR	Segurança LTDA	Rua Severino Rodrigues, Bairro Novo do Carmelo, Camaragibe, PE	Segurança	
EXCLUIR	Limpeza S/A	Rua do Pitiguary, 286, Dois Carneiros, Jaboatão dos Guararapes, PE	Limpeza	
EXCLUIR	Otávio Jose da Silva	Rua Clóvis Beviláqua, 526, Vista Alegre, Jaboatão dos Guararapes, PE	construção	



Screenshot of a web browser showing a filtered list of companies. The search bar at the top says "Seg".

EXCLUIR	Segurança LTDA	Rua Severino Rodrigues, Bairro Novo do Carmelo, Camaragibe, PE	Segurança	
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<https://github.com/VascoMay/Missao-1-Mundo-4>