Lab 12: React Native Login Application

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Lab Task

Create a login Application in react native

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| Solution |
| Task Code:  Form.js: import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';  import {Actions} from 'react-native-router-flux';  export default class Form extends Component{  constructor(props){  super(props);  this.state = {  username: "",  password: ""  }  }    saveData = async() => {  const username = this.state.usename;  const password = this.state.password;  let userDetails = {  username: username,  password: password  }  if(this.props.type != 'Login'){  AsyncStorage.setItem('userDetails', JSON.stringify(userDetails));  Keyboard.dismiss();  alert("You successfully registered. Username: " + username + ' password: ' + password);  this.login();  }  else if (this.props.type == 'Login'){  try{  let userDetails = await AsyncStorage.getItem('loginDetails');  let loginId = JSON.parse(userDetails);  if(loginId.username != null && loginId.password != null){  if(loginId.username == username && loginId.password == password){  alert("Welcome");  }  else{  alert("Unable to Login. Username or Password incorrect");  }  }  }catch(error){  alert(error);  }  }  }  render() {  return(  <View style={styles.container}>  <TextInput style={styles.inputBox}  onChangeText={(username) => this.setState({username})}  underlineColorAndroid='rgba(0,0,0,0)'  placeholder="Username"  placeholderTextColor = "#002f6c"  selectionColor="#fff"  onSubmitEditing={()=> this.password.focus()}/>  <TextInput style={styles.inputBox}  onChangeText={(password) => this.setState({password})}  underlineColorAndroid='rgba(0,0,0,0)'  placeholder="Password"  secureTextEntry={true}  placeholderTextColor = "#002f6c"  ref={(input) => this.password = input}  />  <TouchableOpacity style={styles.button}>  <Text style={styles.buttonText} onPress={this.saveData}>{this.props.type}</Text>  </TouchableOpacity>  </View>  )  }  }  const styles = StyleSheet.create({  container: {  justifyContent: 'center',  alignItems: 'center',  },  inputBox: {  width: 300,  backgroundColor: '#eeeeee',  borderRadius: 25,  paddingHorizontal: 16,  fontSize: 16,  color: '#002f6c',  marginVertical: 10  },  button: {  width: 300,  backgroundColor: '#4f83cc',  borderRadius: 25,  marginVertical: 10,  paddingVertical: 12  },  buttonText: {  fontSize: 16,  fontWeight: '500',  color: '#ffffff',  textAlign: 'center'  }  });  Login.js:  import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';  import {Actions} from 'react-native-router-flux';  import Form from '../components/Form';  export default class Login extends Component{  signup() {  Actions.signup()  }  render() {  return(  <View style={styles.container}>  <Text>{'\n'}</Text>  <Text>{'\n'}</Text>  <Form type="Login"/>  <View style={styles.signupTextCont}>  <Text style={styles.signupText}>Dont have an account yet? </Text>  <TouchableOpacity onPress={this.signup}><Text style={styles.signupButton}>Signup</Text></TouchableOpacity>  </View>  </View>  )  }  }  const styles = StyleSheet.create({  container: {  flex: 1,  justifyContent: 'center',  alignItems: 'center',  backgroundColor: 'white',  },  signupTextCont: {  flexGrow: 1,  justifyContent: 'center',  alignItems: 'flex-end',  paddingVertical: 16,  flexDirection: 'row',  },  signupText: {  color: '#12799f',  fontSize:16,  },  signupButton: {  color: '#12799f',  fontSize:16,  fontWeight: '500',  }  });  Signup.js:  import React, { Component } from 'react';  import {  StyleSheet,  Text,  View,  TouchableOpacity  } from 'react-native';  import Form from '../components/Form';  import {Actions} from 'react-native-router-flux';  export default class Signup extends Component{  goBack() {  Actions.pop()  }  render() {  return(  <View style={styles.container}>  <Text>{'\n'}</Text>  <Text>{'\n'}</Text>  <Form type="Signup"/>  <View style={styles.signupTextCont}>  <Text style={styles.signupText}>Already have an account? </Text>  <TouchableOpacity onPress={this.goBack}><Text style={styles.signupButton}>Sign in</Text></TouchableOpacity>  </View>  </View>  )  }  }  const styles = StyleSheet.create({  container:{  flex:1,  justifyContent:'center',  alignItems: 'center',  backgroundColor: 'white'  },  signupTextCont:{  felxgrow: 1,  justifyContent: 'center',  alignItems: 'center',  paddingVertical: 16,  flexDirection: 'row'  },  signupText:{  color: '#112799f',  fontSize: 16  },  signupButton:{  color:'#112799f',  fontSize: 16,  fontWeight: '500'  }  });  Route.js  import React, { Component } from 'react';  import {Router, Stack, Scene} from 'react-native-router-flux';  import Login from './Pages/Login';  import Signup from './Pages/Signup';  export default class Routes extends Component {  render() {  return (  <Router barButtonIconStyle ={styles.barButtonIconStyle}  hideNavBar={false}  navigationBarStyle={{backgroundColor: '#1565c0',}}  titleStyle={{color: 'white',}}  >  <Stack key="root">  <Scene key="login" component={Login} title="Login"/>  <Scene key="signup" component={Signup} title="Sign up"/>  </Stack>  </Router>  )  }  }  const styles = {  barButtonIconStyle: {  tintColor: 'white'  }  }  App.js:  import React, { Component } from 'react';  import {  StyleSheet,  View,  StatusBar  } from 'react-native';  import Routes from './src/Route';  export default class App extends Component {  render() {  return (  <View style={styles.container}>  <StatusBar  backgroundColor="#002f6c"  barStyle="light-content"  />  <Routes/>  </View>  );  }  }  const styles = StyleSheet.create({  container: {  flex: 1,  }  }); |