```
./6.js
              Thu May 18 09:51:24 2017
    2: * Sample React Native App
       * https://github.com/facebook/react-native
    3:
    4:
       * @flow
   5:
   6:
   7: import React, {Component} from 'react';
    8: import Firestack from 'react-native-firestack'
   9: import moment from 'moment';
  10: import {
  11:
       AppRegistry,
  12:
        StyleSheet,
  13:
        Text,
  14:
        View,
  15:
        TextInput,
  16:
        TouchableOpacity,
  17:
        AppState,
  18:
        Modal
  19: } from 'react-native';
  20: import BackgroundTimer from 'react-native-background-timer';
  21:
  22: import * as firebase from 'firebase';
  23: // Initialize Firebase
  24: var config = {
  25:
        apiKey: "AIzaSyDg9Qy5W1YzNK1mmleIvzMBTxtQIub3kR8",
        authDomain: "myreactnative.firebaseapp.com",
  26:
  27:
        databaseURL: "https://myreactnative.firebaseio.com",
        storageBucket: "myreactnative.appspot.com",
  28:
  29: messagingSenderId: "480732941628"
  30: };
  31: firebase.initializeApp(config);
  32: const firestack = new Firestack();
  33:
  34: export default class 112_firebase extends Component {
  35:
       constructor(props) {
  36:
           super(props);
  37:
           this.database = firebase.database();
  38:
           this.state = {
            chat: '',
  39:
  40:
             chats: [],
  41:
             userOnline: 0,
            modalVisible: false,
  42:
  43:
            name: "Anonymous",
  44:
            isShowLogin: true,
            email: "",
  45:
            password: ""
  46:
  47:
           this.userOnlineRef = this.database.ref('userOnline');
  48:
  49:
           this.chatsRef = this.database.ref('chats');
  50:
           this.handleAppStateChange = this.handleAppStateChange.bind(this);
           this.sendChat = this.sendChat.bind(this);
  51:
  52:
           this.register = this.register.bind(this);
  53:
           this.login = this.login.bind(this);
           this.listeningForAuthChange = this.listeningForAuthChange.bind(this);
  54:
           AppState.addEventListener('change', this.handleAppStateChange);
  55:
  56:
  57:
        listeningForAuthChange() {
  58:
  59:
           firestack.auth.listenForAuth((evt) => {
  60:
             if (!evt.authenticated) {
  61:
               // There was an error or there is no user
  62:
               console.log(evt.error)
  63:
               this.setState({name: 'Anonymous', modalVisible: true});
  64:
             } else {
  65:
               // evt.user contains the user details
  66:
               console.log('User details', evt.user);
  67:
               this.setState({name: evt.user.email});
  68:
  69:
           }).then(() => console.log('Listening for authentication changes'));
  70:
  71:
        handleAppStateChange() {
  72:
           console.log("AppState", AppState.currentState);
  73:
           if (AppState.currentState == 'active') {
  74:
  75:
             this.getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction();
```

} else if (AppState.currentState == 'inactive') {

BackgroundTimer.setTimeout(() => this.decreaseNumberOfUserOnlineByTransaction(), 0);

76:

77:

```
./6.js
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   78:
           }
   79:
         }
   :08
   81:
         register() {
   82:
           console.log(this.state.email, this.state.password);
           firestack.auth.createUserWithEmail(this.state.email,
   83:
   84:
              this.state.password).then((user) => {
   85:
             this.setState({isShowLogin: true, modalVisible: false});
   86:
             console.log("Create user successfully");
   87:
           }).catch((err) => {
             alert("An error occured: " + err.description);
   88:
   89:
             console.log('An error occurred', err);
   90:
         }
   91:
   92:
   93:
         login() {
   94:
           console.log(this.state.email, this.state.password);
   95:
           firestack.auth.signInWithEmail(this.state.email,
   96:
              this.state.password).then((user) => {
   97:
             this.setState({isShowLogin: true, modalVisible: false});
   98:
             console.log("Login user successfully");
   99:
           }).catch((err) => {
             alert("An error occured: " + err.rawDescription);
 100:
 101:
             console.log('An error occurred', err);
 102:
         }
 103:
 104:
 105:
         signOut() {
 106:
           firestack.auth.signOut().then(res => {
             console.log('You have been signed out')
 107:
 108:
           }).catch(err => console.log('Uh oh... something weird happened'));
 109:
 110:
 111:
         getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction() {
 112:
           this.userOnlineRef.transaction(function(currentUserOnline) {
             return currentUserOnline + 1;
  113:
 114:
           });
 115:
 116:
 117:
        decreaseNumberOfUserOnlineByTransaction() {
 118:
           this.userOnlineRef.transaction(function(currentUserOnline) {
 119:
             return currentUserOnline > 0
 120:
               ? currentUserOnline - 1
               : 0;
 121:
 122:
           });
 123:
 124:
         listeningForNumberOfUserOnline() {
 125:
           this.userOnlineRef.on('value', (snapshot) => {
 126:
             console.log("UserOnline change", snapshot.val());
 127:
             this.setState({userOnline: snapshot.val()});
 128:
           });
 129:
 130:
 131:
         listeningForChatChange() {
           this.chatsRef.on('value', (snapshot) => {
 132:
 133:
             console.log("Chats change:", snapshot.val());
 134:
             this.setState({
 135:
               chats: snapshot.val() || []
 136:
             });
           })
 137:
 138:
         }
 139:
 140:
         componentDidMount() {
 141:
           this.listeningForNumberOfUserOnline();
 142:
           this.getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction();
 143:
           this.listeningForChatChange();
 144:
           this.listeningForAuthChange();
 145:
         }
 146:
 147:
         sendChat() {
 148:
           console.log(this.state.chat);
           this.chatsRef.transaction((chats) => {
 149:
 150:
             if (!chats) {
 151:
               chats = [];
 152:
 153:
             chats.push({name: this.state.name, chat: this.state.chat, when: new Date().getTime()})
```

```
./6.js
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                                                    3
  154:
             this.setState({chat: ""});
  155:
             return chats;
  156:
           });
  157:
         }
  158:
  159: render() {
         let authUI;
  160:
  161:
  162:
         if (this.state.isShowLogin) {
  163:
           authUI = (
  164:
             <View>
  165:
               <Text style={styles.title}>Login</Text>
  166:
                <Text>E-mail</Text>
  167:
                <TextInput keyboardType="email-address" autoCapitalize="none"</pre>
  168:
                 style={styles.textInput} value={this.state.email}
  169:
                  onChangeText={(t) => this.setState({email: t})}></TextInput>
  170:
                <Text>Password</Text>
  171:
                <TextInput secureTextEntry={true} style={styles.textInput}</pre>
  172:
                 value={this.state.password}
  173:
                 onChangeText={(t) => this.setState({password: t})}></TextInput>
  174:
                <TouchableOpacity style={styles.submitButton} onPress={this.login}>
  175:
                  <Text style={styles.buttonText}>Login</Text>
  176:
                </TouchableOpacity>
  177:
                <TouchableOpacity style={styles.secondButton}</pre>
  178:
                 onPress={() => this.setState({isShowLogin: false})}>
  179:
                  <Text style={styles.secondButtonText}>Don't have any account?</Text>
  180:
                </TouchableOpacity>
  181:
             </View>
  182:
  183:
         } else {
  184:
           authUI = (
  185:
             <View>
               <Text style={styles.title}>Register</Text>
  186:
  187:
                <Text>E-mail</Text>
  188:
                <TextInput keyboardType="email-address" autoCapitalize="none"</pre>
  189:
                   style={styles.textInput} value={this.state.email}
                   onChangeText={(t) => this.setState({email: t})}></TextInput>
  190:
  191:
                <Text>Password</Text>
  192:
                <TextInput secureTextEntry={true} style={styles.textInput}</pre>
  193:
                 value={this.state.password}
  194:
                  onChangeText={(t) => this.setState({password: t})}></TextInput>
  195:
                <TouchableOpacity style={styles.submitButton} onPress={this.register}>
  196:
                  <Text style={styles.buttonText}>Register</Text>
  197:
               </TouchableOpacity>
  198:
                <TouchableOpacity style={styles.secondButton}
                 onPress={() => this.setState({isShowLogin: true})}>
  199:
  200:
                  <Text style={styles.secondButtonText}>Already have account?</Text>
  201:
                </TouchableOpacity>
  202:
             </View>
  203:
           )
         }
  204:
  205:
  206:
           let signOut;
  207:
           if (!this.state.modalVisible) {
  208:
  209:
                <TouchableOpacity style={styles.signOutButton} onPress={this.signOut}>
  210:
                  <Text style={styles.signOutText}>Sign Out</Text>
  211:
                </TouchableOpacity>
  212:
             )
           }
  213:
  214:
  215:
           return (
  216:
             <View style={styles.container}>
  217:
                <Modal animationType={"slide"} transparent={true} visible={this.state.modalVisible}>
  218:
                  <View style={styles.modal}>
  219:
                    <TouchableOpacity style={styles.closeButton} onPress={() => this.setState({modal
Visible: false})}>
  220:
                      <Text>X</Text>
  221:
                    </TouchableOpacity>
  222:
                    {authUI}
  223:
                 </View>
  224:
               </Modal>
  225:
                <View style={styles.header}>
  226:
                 <View style={{
                    flexDirection: 'row'
  227:
  228:
                 }}>
  229:
                    <Text style={styles.labelText}>
```

```
./6.js
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  230:
                      Hello {this.state.name}!
  231:
                    </Text>
  232:
                    {signOut}
  233:
                  </View>
  234:
                  <Text style={styles.labelText}>
  235:
                    #User online: {this.state.userOnline}
  236:
                  </Text>
  237:
                </View>
  238:
                <View style={styles.content}>
  239:
                  {this.state.chats.map((obj, i) => <View key={i} style={styles.chatContainer}>
  240:
                    <View style={styles.chatMeta}>
                      <Text style={styles.bold}>{obj.name || "Anonymous"}</Text>
  241:
  242:
  243:
                        ({moment(obj.when).fromNow()})</Text>
                    </View>
  244:
  245:
                    <View style={styles.chat}>
  246:
                      <Text style={styles.chatText}>{obj.chat}</Text>
  247:
  248:
                  </View>)
                </View>
  249:
  250:
                <View style={styles.footer}>
  251:
                  <TextInput style={styles.textInput} value={this.state.chat} onChangeText={(t) => t
his.setState({chat: t})}></TextInput>
  252:
                  <TouchableOpacity style={styles.button} onPress={this.sendChat}>
  253:
                    <Text style={styles.buttonText}>Send</Text>
  254:
                  </TouchableOpacity>
  255:
                </View>
  256:
              </View>
  257:
           );
         }
  258:
  259: }
  260:
  261: const styles = StyleSheet.create({
  262:
         chatMeta: {
  263:
           flexDirection: 'row'
  264:
  265:
         chat: {
  266:
           backgroundColor: 'grey',
  267:
           borderRadius: 10,
  268:
           padding: 5
  269:
  270:
         chatText: {
           color: 'white'
  271:
  272:
  273:
         container: {
  274:
           flex: 1,
  275:
           paddingTop: 20
  276:
  277:
         content: {
  278:
           padding: 10,
  279:
           flex: 1
  280:
  281:
         labelText: {
  282:
           fontSize: 20
  283:
  284:
         header: {
  285:
            justifyContent: 'center',
  286:
           alignItems: 'center',
  287:
           height: 50,
  288:
           padding: 5,
  289:
           backgroundColor: '#dddddd'
  290:
         },
  291:
         footer: {
  292:
           height: 50,
  293:
           backgroundColor: 'yellow',
  294:
           flexDirection: 'row'
  295:
         },
  296:
         textInput: {
  297:
           flex: 1,
  298:
           height: 50,
  299:
           width: 200,
  300:
           padding: 5,
  301:
           backgroundColor: 'white',
  302:
           borderWidth: 1.
  303:
           borderRadius: 5
  304:
  305:
         button: {
```

371: AppRegistry.registerComponent('113_authentication', () => 112_firebase);

370:

```
./7.js
              Thu May 18 09:51:27 2017
    2: * Sample React Native App
       * https://github.com/facebook/react-native
    3:
    4:
       * @flow
   5:
   6:
   7: import React, {Component} from 'react';
    8: import Firestack from 'react-native-firestack'
   9: import moment from 'moment';
  10: import {
  11: AppRegistry,
  12:
        StyleSheet,
  13:
        Text,
  14:
        View,
  15:
        TextInput,
  16:
        TouchableOpacity,
  17:
        AppState,
  18:
        Modal
  19: } from 'react-native';
  20: import BackgroundTimer from 'react-native-background-timer';
  21:
  22: import * as firebase from 'firebase';
  23: // Initialize Firebase
  24: var config = {
  25:
        apiKey: "AIzaSyDg9Qy5W1YzNK1mmleIvzMBTxtQIub3kR8",
        authDomain: "myreactnative.firebaseapp.com",
  26:
  27:
        databaseURL: "https://myreactnative.firebaseio.com",
        storageBucket: "myreactnative.appspot.com",
  28:
  29: messagingSenderId: "480732941628"
  30: };
  31: firebase.initializeApp(config);
  32: const firestack = new Firestack();
  33:
  34: export default class 112_firebase extends Component {
  35:
       constructor(props) {
  36:
           super(props);
  37:
           this.database = firebase.database();
  38:
           this.state = {
            chat: '',
  39:
  40:
             chats: [],
  41:
             userOnline: 0,
            modalVisible: false,
  42:
  43:
            name: "Anonymous",
  44:
            isShowLogin: true,
            email: "",
  45:
            password: ""
  46:
  47:
           this.userOnlineRef = this.database.ref('userOnline');
  48:
  49:
           this.chatsRef = this.database.ref('chats');
  50:
           this.handleAppStateChange = this.handleAppStateChange.bind(this);
           this.sendChat = this.sendChat.bind(this);
  51:
  52:
           this.register = this.register.bind(this);
  53:
           this.login = this.login.bind(this);
           this.listeningForAuthChange = this.listeningForAuthChange.bind(this);
  54:
           AppState.addEventListener('change', this.handleAppStateChange);
  55:
  56:
  57:
        listeningForAuthChange() {
  58:
  59:
           firestack.auth.listenForAuth((evt) => {
  60:
             if (!evt.authenticated) {
  61:
               // There was an error or there is no user
  62:
               console.log(evt.error)
  63:
               this.setState({name: 'Anonymous', modalVisible: true});
  64:
             } else {
  65:
               // evt.user contains the user details
  66:
               console.log('User details', evt.user);
  67:
               this.setState({name: evt.user.email});
  68:
  69:
           }).then(() => console.log('Listening for authentication changes'));
  70:
  71:
        handleAppStateChange() {
  72:
           console.log("AppState", AppState.currentState);
  73:
           if (AppState.currentState == 'active') {
  74:
  75:
             this.getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction();
  76:
           } else if (AppState.currentState == 'inactive') {
```

BackgroundTimer.setTimeout(() => this.decreaseNumberOfUserOnlineByTransaction(), 0);

77:

```
./7.js
               Thu May 18 09:51:27 2017
   78:
           }
   79:
         }
   :08
   81:
         register() {
   82:
           console.log(this.state.email, this.state.password);
   83:
           firestack.auth.createUserWithEmail(this.state.email,
   84:
              this.state.password).then((user) => {
   85:
             this.setState({isShowLogin: true, modalVisible: false});
   86:
             console.log("Create user successfully");
   87:
           }).catch((err) => {
             alert("An error occured: " + err.description);
   88:
   89:
             console.log('An error occurred', err);
   90:
         }
   91:
   92:
   93:
         login() {
   94:
           console.log(this.state.email, this.state.password);
   95:
           firestack.auth.signInWithEmail(this.state.email,
   96:
              this.state.password).then((user) => {
   97:
             this.setState({isShowLogin: true, modalVisible: false});
   98:
             console.log("Login user successfully");
   99:
           }).catch((err) => {
             alert("An error occured: " + err.rawDescription);
 100:
 101:
             console.log('An error occurred', err);
 102:
 103:
         }
 104:
 105:
         signOut() {
 106:
           firestack.auth.signOut().then(res => {
 107:
             console.log('You have been signed out')
 108:
           }).catch(err => console.log('Uh oh... something weird happened'));
 109:
 110:
 111:
         getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction() {
 112:
           this.userOnlineRef.transaction(function(currentUserOnline) {
             return currentUserOnline + 1;
  113:
 114:
           });
 115:
 116:
 117:
        decreaseNumberOfUserOnlineByTransaction() {
 118:
           this.userOnlineRef.transaction(function(currentUserOnline) {
 119:
             return currentUserOnline > 0
 120:
               ? currentUserOnline - 1
 121:
               : 0;
 122:
           });
 123:
 124:
         listeningForNumberOfUserOnline() {
 125:
           this.userOnlineRef.on('value', (snapshot) => {
 126:
             console.log("UserOnline change", snapshot.val());
 127:
             this.setState({userOnline: snapshot.val()});
 128:
           });
 129:
 130:
 131:
         listeningForChatChange() {
           this.chatsRef.on('value', (snapshot) => {
 132:
 133:
             console.log("Chats change:", snapshot.val());
 134:
             this.setState({
 135:
               chats: snapshot.val() || []
 136:
             });
 137:
             this.markAsRead();
 138:
           })
 139:
         }
 140:
 141:
         componentDidMount() {
           this.listeningForNumberOfUserOnline();
 142:
 143:
           this.getNumberOfUserOnlineOnceAndIncreaseBy1ByTransaction();
 144:
           this.listeningForChatChange();
           this.listeningForAuthChange();
 145:
 146:
 147:
 148:
         sendChat() {
 149:
           console.log(this.state.chat);
 150:
           this.chatsRef.transaction((chats) => {
 151:
             if (!chats) {
 152:
               chats = [];
 153:
 154:
             chats.push({name: this.state.name, chat: this.state.chat, when: new Date().getTime()})
```

```
./7.js
               Thu May 18 09:51:27 2017
 155:
             this.setState({chat: ""});
 156:
             return chats;
  157:
           });
         }
 158:
 159:
 160:
         markAsRead(){
 161:
           this.chatsRef.transaction((chats) => {
 162:
             if (!chats) {
 163:
               chats = [];
 164:
 165:
             for (let i in chats) {
 166:
               if (!chats[i].read){
 167:
                 chats[i].read = [];
 168:
 169:
               if (chats[i].read.indexOf(this.state.name)<0){</pre>
 170:
                 chats[i].read.push(this.state.name);
 171:
 172:
 173:
             this.setState({chat: ""});
 174:
             return chats;
 175:
           });
         }
 176:
 177:
 178: render() {
 179:
         let authUI;
  180:
 181:
         if (this.state.isShowLogin) {
 182:
           authUI = (
 183:
             <View>
 184:
               <Text style={styles.title}>Login</Text>
 185:
               <Text>E-mail</Text>
               <TextInput keyboardType="email-address" autoCapitalize="none"
 186:
 187:
                 style={styles.textInput} value={this.state.email}
 188:
                 onChangeText={(t) => this.setState({email: t})}></TextInput>
 189:
               <Text>Password</Text>
               <TextInput secureTextEntry={true} style={styles.textInput}</pre>
 190:
 191:
                 value={this.state.password}
 192:
                 onChangeText={(t) => this.setState({password: t})}></TextInput>
               <TouchableOpacity style={styles.submitButton} onPress={this.login}>
 193:
 194:
                  <Text style={styles.buttonText}>Login</Text>
               </TouchableOpacity>
 195:
 196:
               <TouchableOpacity style={styles.secondButton}</pre>
 197:
                 onPress={() => this.setState({isShowLogin: false})}>
  198:
                  <Text style={styles.secondButtonText}>Don't have any account?</Text>
 199:
               </TouchableOpacity>
  200:
             </View>
 201:
           )
  202:
         } else {
  203:
           authUI = (
  204:
             <View>
  205:
               <Text style={styles.title}>Register</Text>
  206:
               <Text>E-mail</Text>
  207:
               <TextInput keyboardType="email-address" autoCapitalize="none"</pre>
                  style={styles.textInput} value={this.state.email}
 208:
  209:
                  onChangeText={(t) => this.setState({email: t})}></TextInput>
 210:
               <Text>Password</Text>
  211:
               <TextInput secureTextEntry={true} style={styles.textInput}</pre>
  212:
                 value={this.state.password}
                 onChangeText={(t) => this.setState({password: t}))}></TextInput>
 213:
  214:
               <TouchableOpacity style={styles.submitButton} onPress={this.register}>
  215:
                  <Text style={styles.buttonText}>Register</Text>
  216:
               </TouchableOpacity>
  217:
               <TouchableOpacity style={styles.secondButton}</pre>
  218:
                 onPress={() => this.setState({isShowLogin: true})}>
  219:
                  <Text style={styles.secondButtonText}>Already have account?</Text>
  220:
               </TouchableOpacity>
  221:
             </View>
           )
 222:
  223:
         }
  224:
  225:
           let signOut;
  226:
           if (!this.state.modalVisible) {
  227:
             signOut = (
               <TouchableOpacity style={styles.signOutButton} onPress={this.signOut}>>
  228:
  229:
                 <Text style={styles.signOutText}>Sign Out</Text>
  230:
               </TouchableOpacity>
```

3

```
./7.js
               Thu May 18 09:51:27 2017
  231:
             )
  232:
           }
  233:
  234:
           return (
  235:
             <View style={styles.container}>
                <Modal animationType={"slide"} transparent={true} visible={this.state.modalVisible}>
  236:
  237:
                  <View style={styles.modal}>
  238:
                    <TouchableOpacity style={styles.closeButton} onPress={() => this.setState({modal
Visible: false})}>
  239:
                      <Text>X</Text>
  240:
                    </TouchableOpacity>
  241:
                    {authUI}
  242:
                  </View>
  243:
                </Modal>
  244:
                <View style={styles.header}>
  245:
                  <View style={{
  246:
                    flexDirection: 'row'
  247:
  248:
                    <Text style={styles.labelText}>
  249:
                      Hello {this.state.name}!
  250:
                    </Text>
  251:
                    {signOut}
  252:
                  </View>
  253:
                  <Text style={styles.labelText}>
  254:
                    #User online: {this.state.userOnline}
  255:
                  </Text>
  256:
                </View>
  257:
                <View style={styles.content}>
                  {this.state.chats.map((obj, i) => <View key={i} style={styles.chatContainer}>
  258:
  259:
                    <View style={styles.chatMeta}>
  260:
                      <Text style={styles.bold}>{obj.name || "Anonymous"}</Text>
  261:
                      <Text>
  262:
                        ({moment(obj.when).fromNow()})</Text>
  263:
                      <Text>
  264:
                        Read by: {(obj.read || []).length}
  265:
                      </Text>
                    </View>
  266:
  267:
                    <View style={styles.chat}>
  268:
                      <Text style={styles.chatText}>{obj.chat}</Text>
  269:
                    </View>
  270:
                  </View>)}
  271:
                </View>
  272:
                <View style={styles.footer}>
  273:
                  <TextInput style={styles.textInput} value={this.state.chat} onChangeText={(t) => t
his.setState({chat: t})}></TextInput>
  274:
                  <TouchableOpacity style={styles.button} onPress={this.sendChat}>
  275:
                    <Text style={styles.buttonText}>Send</Text>
  276:
                  </TouchableOpacity>
  277:
                </View>
  278:
              </View>
  279:
           );
  280:
         }
  281: }
  282:
  283: const styles = StyleSheet.create({
  284:
         chatMeta: {
  285:
           flexDirection: 'row'
  286:
         },
  287:
         chat: {
           backgroundColor: 'grey',
  288:
  289:
           borderRadius: 10,
  290:
           padding: 5
  291:
  292:
         chatText: {
           color: 'white'
  293:
  294:
         },
  295:
         container: {
  296:
           flex: 1,
  297:
           paddingTop: 20
  298:
         },
  299:
         content: {
  300:
           padding: 10,
  301:
           flex: 1
  302:
  303:
         labelText: {
  304:
           fontSize: 20
  305:
         },
```

```
./7.js
               Thu May 18 09:51:27 2017
  306:
         header: {
  307:
           justifyContent: 'center',
  308:
           alignItems: 'center',
  309:
           height: 50,
 310:
           padding: 5,
 311:
           backgroundColor: '#dddddd'
  312:
         },
         footer: {
  313:
           height: 50,
 314:
 315:
           backgroundColor: 'yellow',
 316:
           flexDirection: 'row'
 317:
         },
  318:
         textInput: {
 319:
           flex: 1,
           height: 50
 320:
 321:
           width: 200,
           padding: 5,
 322:
 323:
           backgroundColor: 'white',
 324:
           borderWidth: 1,
 325:
           borderRadius: 5
 326:
         button: {
  327:
           width: 100,
 328:
 329:
           backgroundColor: 'darkblue',
 330:
           padding: 10,
 331:
           borderWidth: 1,
 332:
           borderRadius: 5,
           justifyContent: 'center',
 333:
 334:
           alignItems: 'center'
  335:
  336:
         buttonText:
          fontSize: 20,
 337:
 338:
           color: 'white'
 339:
         },
 340:
         modal: {
  341:
           height: 280,
 342:
           width: 300,
 343:
           marginTop: 150,
 344:
           padding: 10,
  345:
           alignSelf: 'center',
 346:
           backgroundColor: 'lightblue',
 347:
           margin: 10,
 348:
           borderRadius: 10,
           justifyContent: 'center',
 349:
  350:
           alignItems: 'center'
 351:
 352:
         closeButton: {
 353:
          alignSelf: 'flex-end'
  354:
         },
  355:
         secondButtonText: {
          color: 'white'
 356:
 357:
 358:
         secondButton: {
  359:
           alignSelf: 'center',
 360:
           backgroundColor: 'gray',
 361:
           height: 44,
 362:
           borderRadius: 10,
 363:
           alignItems: 'center',
  364:
           justifyContent: 'center',
           margin: 10,
 365:
           padding: 5
  366:
 367:
         },
         submitButton: {
  368:
           alignSelf: 'center',
 369:
 370:
           backgroundColor: 'darkblue',
 371:
           width: 100,
 372:
           height: 44,
  373:
           borderRadius: 10,
           alignItems: 'center',
 374:
 375:
           justifyContent: 'center',
  376:
           margin: 10
 377:
         },
 378:
         title: {
 379:
           fontSize: 20,
```

fontWeight: 'bold'

bold: {

380:

381: 382:

```
./7.js    Thu May 18 09:51:27 2017    6

383:    fontWeight: 'bold'
384:    },
385:    signOutButton: {
386:       padding: 5
387:    },
388:    signOutText: {
389:       color: 'red'
390:    }
391: });
392:
393: AppRegistry.registerComponent('113_authentication', () => 112_firebase);
```