

# React Native Project with NodeJS and MongoDB- Part3



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Welcome to part-3 of the series. You can find the part-2 [here](#).

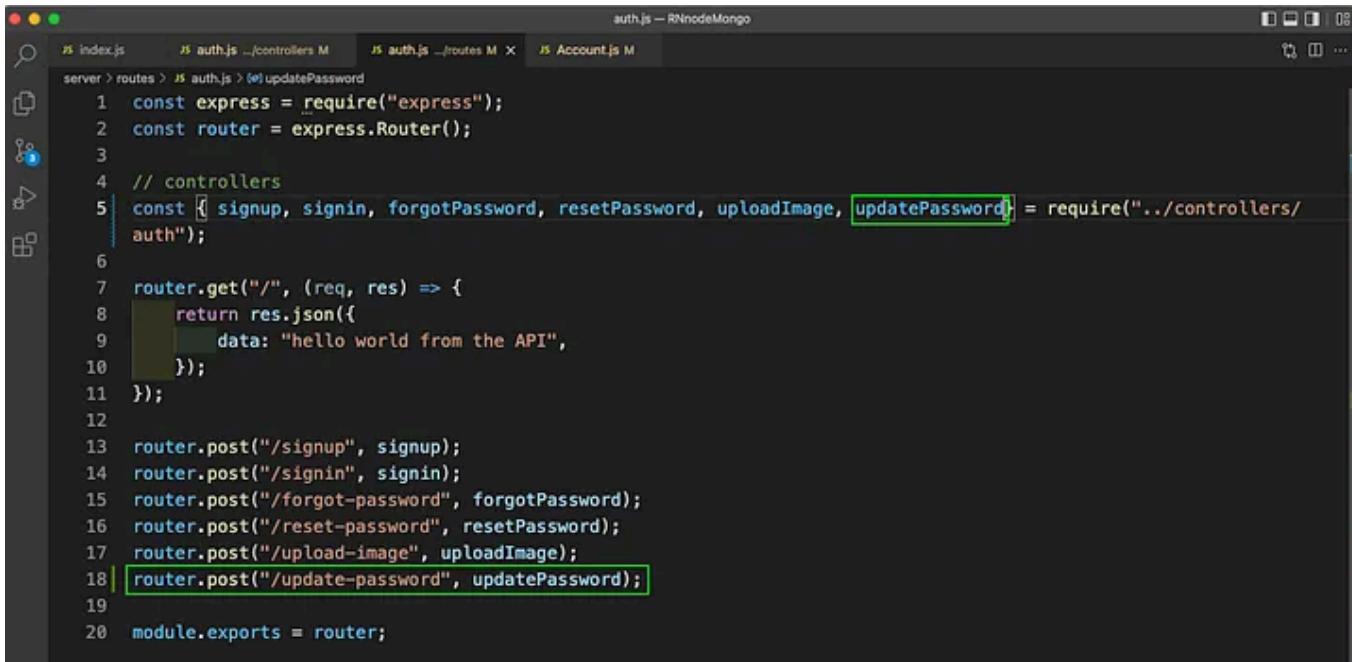
We will start where, we have left in part-2. Here, first we will add the code to update the password in **Account.js** file.

The screenshot shows a code editor window with the file 'Account.js' open. The code is written in JavaScript and handles password updates. A green rectangular selection highlights the entire body of the `handleSubmit` function.

```
client > screens > JS Account.js > (e) Account > (e) handleSubmit
27 }, [state]);
28
29 const handleSubmit = async () => {
30   try {
31     let storedData = await AsyncStorage.getItem("auth-rn");
32     const user = JSON.parse(storedData);
33     console.log(user)
34     const resp = await axios.post("http://localhost:8000/api/update-password", { password, user });
35     const data = resp.data;
36     if(data.error)
37       alert(data.error)
38     else {
39       alert("Password updated successfully");
40       setPassword("");
41     }
42   } catch (error) {
43     alert("Password update failed");
44     console.log(error);
45   }
46 };
47
48 const handleUpload = async () => {
49   let permissionResult = await ImagePicker.requestMediaLibraryPermissionsAsync();
50   if (permissionResult.granted === false) {
51   }
52   let pickerResult = await ImagePicker.launchImageLibraryAsync({
53   });
54 }
```

Account.js

Next, in the server -> routes -> auth.js file, we will add a new **updatePassword** route.



```
auth.js — RNnodeMongo
server > routes > auth.js > updatePassword
1 const express = require("express");
2 const router = express.Router();
3
4 // controllers
5 const { signup, signin, forgotPassword, resetPassword, uploadImage, updatePassword } = require("../controllers/auth");
6
7 router.get("/", (req, res) => {
8   return res.json({
9     data: "hello world from the API",
10   });
11 });
12
13 router.post("/signup", signup);
14 router.post("/signin", signin);
15 router.post("/forgot-password", forgotPassword);
16 router.post("/reset-password", resetPassword);
17 router.post("/upload-image", uploadImage);
18 router.post("/update-password", updatePassword);
19
20 module.exports = router;
```

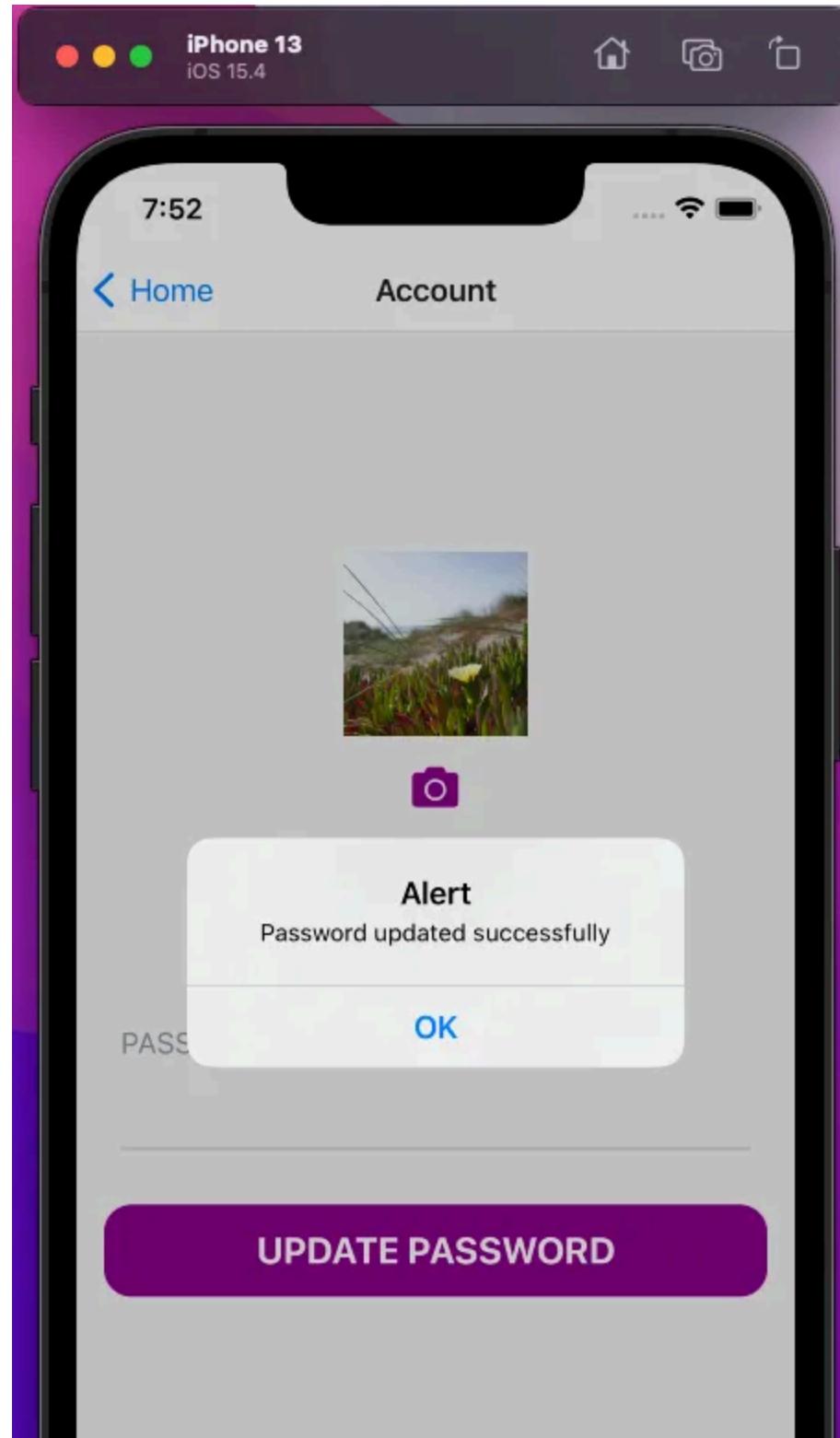
auth.js

Next, in the server -> controllers -> auth.js file, we will add a new **updatePassword** function. Here, we are find the user from the `_id` in the body and updating it with the hashedPassword.

```
auth.js — RNnodeMongo
JS index.js JS auth.js ...controllers M JS auth.js ...routes M JS Account.js M
server > controllers > JS auth.js > updatePassword > updatePassword
188     });
189   } catch (err) {
190     console.log(err);
191   }
192 };
193
194 exports.updatePassword = async (req, res) => {
195   try {
196     const { password } = req.body;
197     console.log(req.body.user.user._id)
198     if (password && password.length < 6) {
199       return res.json({
200         error: "Password is required and should be min 6 characters long",
201       });
202     } else {
203       // update db
204       const hashedPassword = await hashPassword(password);
205       const user = await User.findByIdAndUpdate(req.body.user.user._id, {
206         password: hashedPassword,
207       });
208       user.password = undefined;
209       user.secret = undefined;
210       return res.json(user);
211     }
212   } catch (err) {
213     console.log(err);
214   }
215 };
216
```

auth.js

Now, on clicking on Update Password in the app, the password is updating properly.





Now, we will add the logic for Forgot Password. For this we are first adding an onPress handler to the Forgot Password text in **SignIn.js** file. We are also adding some styles in it.

The screenshot shows a code editor with a tab bar at the top containing files: Signin.js (active), NavigationScreen.js, ForgotPassword.js, auth.js, and auth.js. The main area displays the `Signin.js` file, which contains the following code:

```
41 <Text style={styles.signupInput} value={password} onChangeText={(text => setPassword(text)}>
42     <secureTextEntry=true autoComplteType="password" />
43 </View>
44 <TouchableOpacity onPress={handleSubmit} style={styles.buttonStyle}>
45     <Text style={styles.buttonText}>Submit</Text>
46 </TouchableOpacity>
47 <Text style={{ fontSize: 12, textAlign: 'center' }}>
48     Not yet registered? {" "}
49     <Text style={{ color: 'darkred', fontWeight: 'bold' }}>
50         onPress={() => navigation.navigate("SignUp")}>
51             Sign Up
52     </Text>
53     <Text onPress={() => navigation.navigate("ForgotPassword")}>
54         style={styles.forgotText}>
55             Forgot Password?
56     </Text>
57 </View>
58 </KeyboardAwareScrollView>
59 }
60
61 const styles = StyleSheet.create({
62     container: {
63         flex: 1,
64         justifyContent: 'center'
65     },
66     forgotText: { fontSize: 12, textAlign: 'center', marginTop: 10, color: 'darkgreen', fontWeight: 'bold' },
67     signUpText: {
68         fontSize: 30,
69         textAlign: 'center'
70     },
71     signUpInput: {
72         borderBottomWidth: 0.5,
73         height: 48,
74         borderBottomColor: "#8e93a1",
75     }
76 })
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```

SignIn.js

The screenshot shows a code editor window with the file `NavigationScreen.js` open. The code defines a `StackNavigator` that routes between different screens based on user authentication status. The `ForgotPassword` import statement at line 11 and the screen definition at line 33 are highlighted with green boxes.

```
JS SignIn.js M JS NavigationScreen.js M X JS ForgotPassword.js U JS auth.js .../routes M JS auth.js .../controllers M
Client > components > JS NavigationScreen.js > (0) NavigationScreen
  8 import Account from '../screens/Account';
  9 import Post from '../screens/Post';
 10 import Links from '../screens/Links';
 11 import ForgotPassword from '../screens/ForgotPassword';
 12
 13 const Stack = createNativeStackNavigator();
 14
 15 const NavigationScreen = () => {
 16   const [state, setState] = useContext(AuthContext);
 17   const authenticated = state && state.token !== "" && state.user !== null;
 18
 19   return (
 20     <Stack.Navigator initialRouteName="Home">
 21       {authenticated ?
 22         (
 23           <Stack.Screen name="Home" component={Home} options={{ headerRight: () => <HeaderTabs /> }}/>
 24           <Stack.Screen name="Account" component={Account} />
 25           <Stack.Screen name="Post" component={Post} />
 26           <Stack.Screen name="Links" component={Links} />
 27         )
 28       : (
 29           <Stack.Screen name="SignIn" component={SignIn} />
 30           <Stack.Screen name="SignUp" component={SignUp} />
 31           <Stack.Screen name="ForgotPassword" component={ForgotPassword} />
 32         )
 33       )
 34     </Stack.Navigator>
 35   }
 36 }
 37
 38 export default NavigationScreen
 39
 40
 41
```

NavigationScreen.js

Now, create a new file `ForgotPassword.js` inside the `screens` folder. First, we will add the required imports and the state variables.

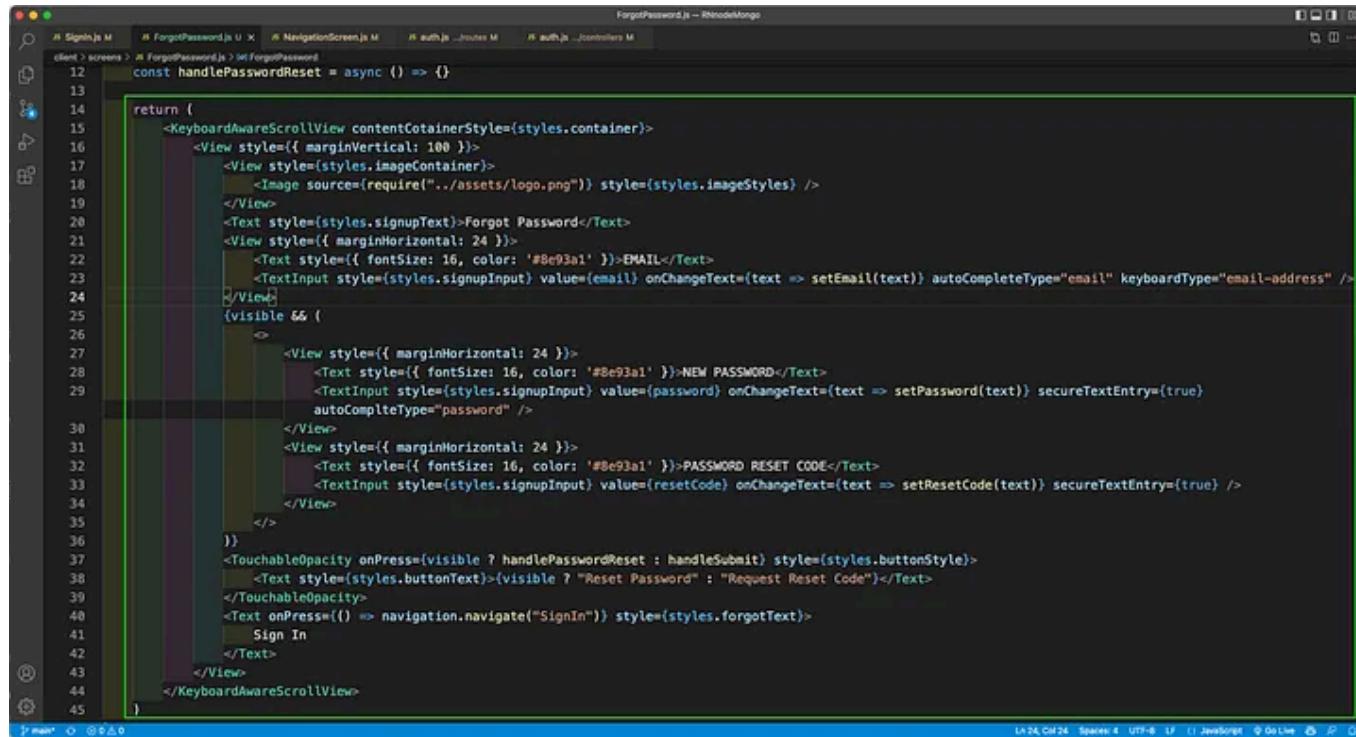
```
ForgotPassword.js — RNnodeMongo
JS Signin.js M JS ForgotPassword.js U X JS NavigationScreen.js M JS auth.js ...routes M JS auth.js ...controllers M
client > screens > JS ForgotPassword.js > (e) ForgotPassword
1 import { StyleSheet, Text, View, TextInput, TouchableOpacity, Image } from 'react-native'
2 import { KeyboardAwareScrollView } from "react-native-keyboard-aware-scroll-view";
3 import React, { useState } from 'react'
4
5 const ForgotPassword = ({ navigation }) => {
6   const [email, setEmail] = useState("");
7   const [password, setPassword] = useState("");
8   const [resetCode, setResetCode] = useState("");
9   const [visible, setVisible] = useState(false);
10
11   const handleSubmit = async () => {}
12   const handlePasswordReset = async () => {}
13
14   return (
15     <KeyboardAwareScrollView contentContainerStyle={styles.container}>
16       <View style={{ marginVertical: 100 }}>
17         <View style={styles.imageContainer}>
18           <Image source={require("../assets/logo.png")} style={styles.imageStyles} />
19         </View>
20         <Text style={styles.signupText}>Forgot Password</Text>
21       </View>
22     </KeyboardAwareScrollView>
23   );
24 }
25
26 export default ForgotPassword;
```

ForgotPassword.js

Next, inside the return statement we will have a `TextInput` box in which we will take the user email.

Here, we are also wrapping the NEW PASSWORD and the PASSWORD RESET CODE with the visible state variable.

We also have a button, which shows text according to the visible variable.



```
const handlePasswordReset = async () => {}  
  
return (  
  <KeyboardAwareScrollView contentContainerStyle={styles.container}>  
    <View style={{ marginVertical: 100 }}>  
      <View style={styles.imageContainer}>  
        <Image source={require("../assets/logo.png")} style={styles.imageStyles} />  
      </View>  
      <Text style={styles.signupText}>Forgot Password</Text>  
      <View style={{ marginHorizontal: 24 }}>  
        <Text style={{ fontSize: 16, color: '#8e93a1' }}>EMAIL</Text>  
        <TextInput style={styles.signupInput} value={email} onChangeText={(text => setEmail(text))} autoCompleteType="email" keyboardType="email-address" />  
      </View>  
      {visible ? <>  
        <View style={{ marginHorizontal: 24 }}>  
          <Text style={{ fontSize: 16, color: '#8e93a1' }}>NEW PASSWORD</Text>  
          <TextInput style={styles.signupInput} value={password} onChangeText={(text => setPassword(text))} secureTextEntry={true} autoCompleteType="password" />  
        </View>  
        <View style={{ marginHorizontal: 24 }}>  
          <Text style={{ fontSize: 16, color: '#8e93a1' }}>PASSWORD RESET CODE</Text>  
          <TextInput style={styles.signupInput} value={resetCode} onChangeText={(text => setResetCode(text))} secureTextEntry={true} />  
        </View>  
      </>}  
      <TouchableOpacity onPress={visible ? handlePasswordReset : handleSubmit} style={styles.buttonStyle}>  
        <Text style={styles.buttonText}>{visible ? "Reset Password" : "Request Reset Code"}</Text>  
      </TouchableOpacity>  
      <Text onPress={() => navigation.navigate("SignIn")}>Sign In</Text>  
    </View>  
  </KeyboardAwareScrollView>
```

ForgotPassword.js

Next, we will add the styles for the ForgotPassword component.

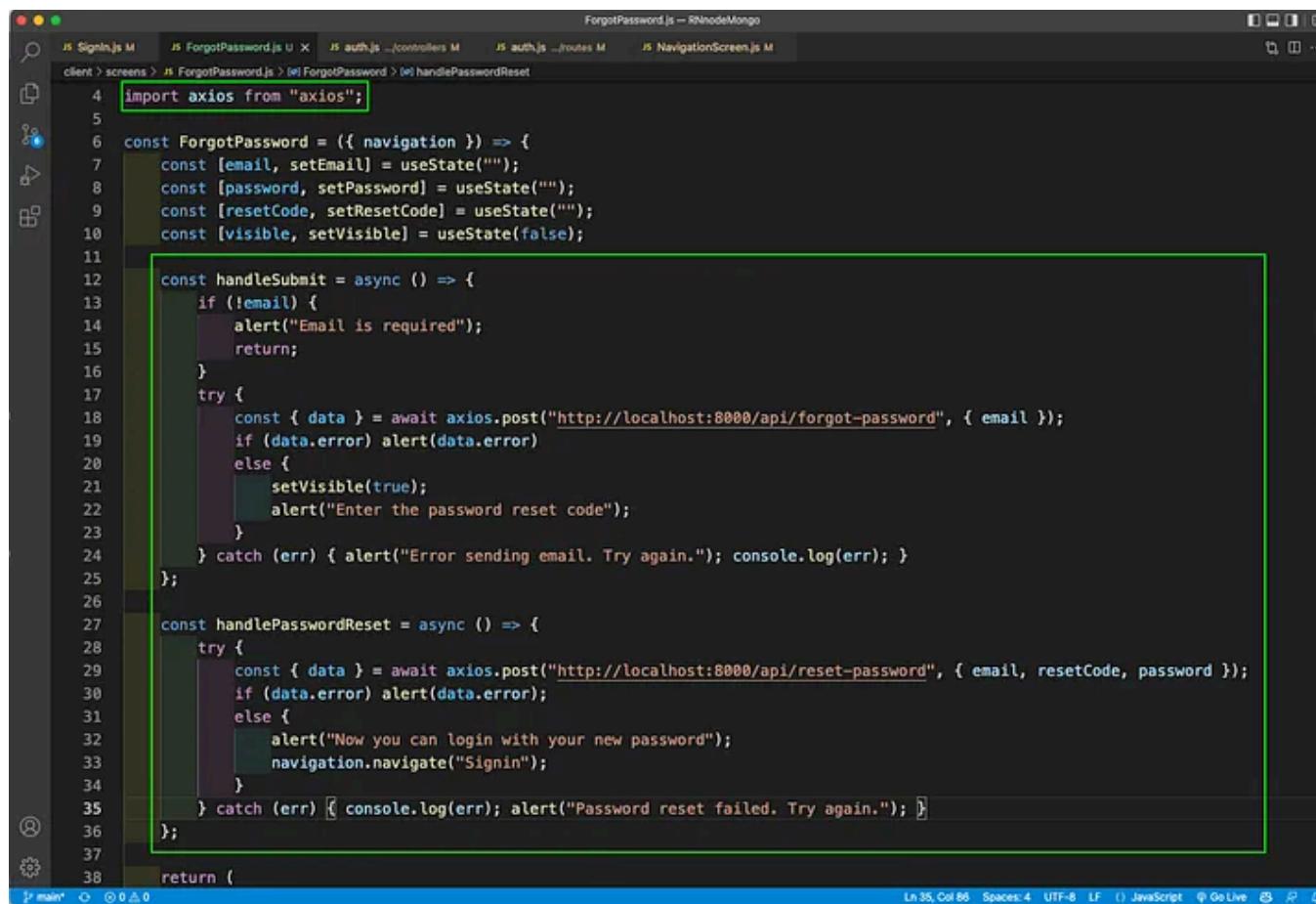
```
ForgotPassword.js – RNnodeMongo
JS Signin.js M JS ForgotPassword.js U X JS NavigationScreen.js M JS auth.js .../routes M JS auth.js .../controllers M
client > screens > JS ForgotPassword.js <(e) ForgotPassword>
43     </View>
44   </KeyboardAwareScrollView>
45 }
46 }
47
48 const styles = StyleSheet.create({
49   container: { flex: 1, justifyContent: 'center' },
50   forgotText: { fontSize: 12, textAlign: 'center', marginTop: 10, color: 'darkgreen', fontWeight: 'bold' },
51   signUpText: { fontSize: 30, textAlign: 'center' },
52   signUpInput: {
53     borderBottomWidth: 0.5,
54     height: 48,
55     borderBottomColor: "#8e93a1",
56     marginBottom: 30,
57   },
58   buttonStyle: {
59     backgroundColor: "darkmagenta",
60     height: 50,
61     marginBottom: 20,
62     justifyContent: "center",
63     marginHorizontal: 15,
64     borderRadius: 15,
65   },
66   buttonText: {
67     fontSize: 20,
68     textAlign: 'center',
69     color: '#fff',
70     textTransform: 'uppercase',
71     fontWeight: 'bold'
72   },
73   imageContainer: { justifyContent: "center", alignItems: "center" },
74   imageStyles: { width: 100, height: 100, marginVertical: 20 }
75 })
76
77 export default ForgotPassword
```

ForgotPassword.js

Next, we will add the logic for handlePasswordReset and handleSubmit.

Here, first the handleSubmit() will be triggered, which will set the visible to be true.

After that if it is sucessful, the user will be able to change the password and the handlePasswordReset will be triggered.

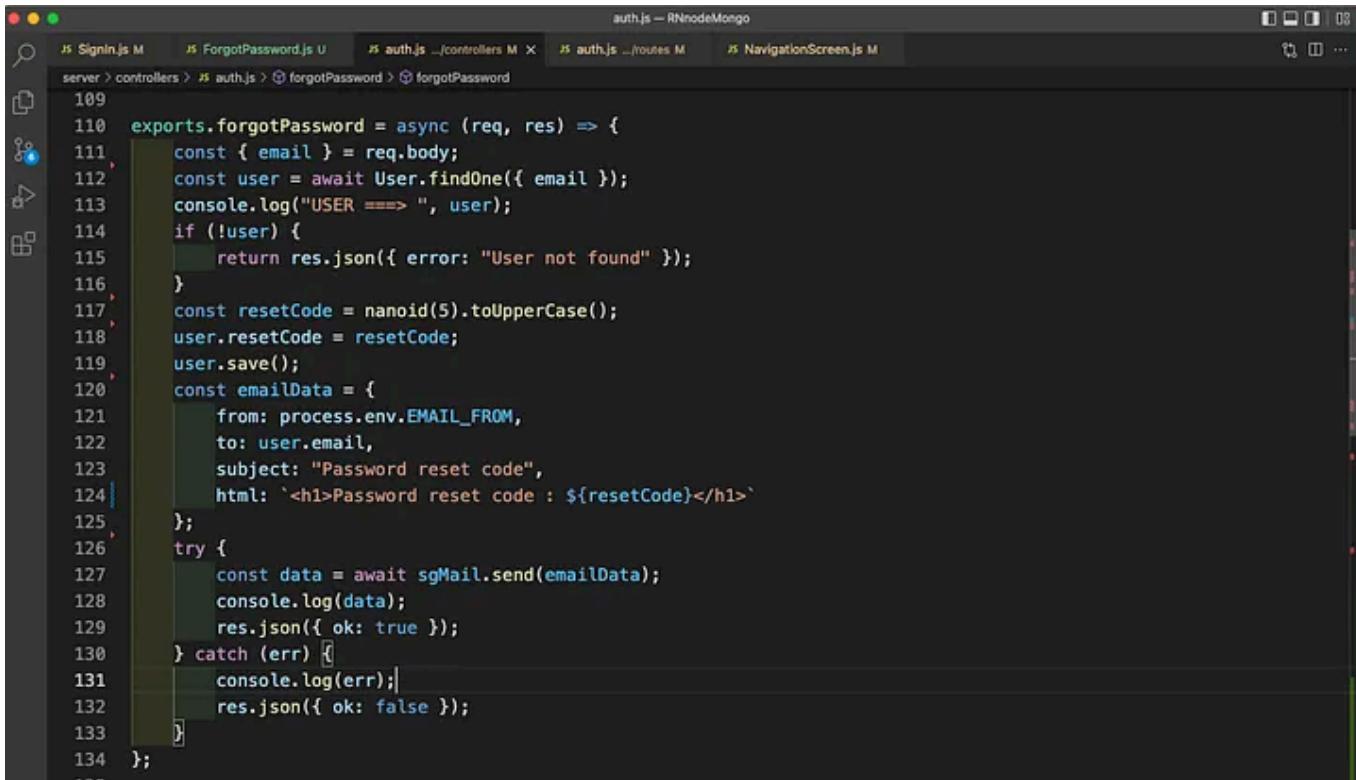


```
ForgotPassword.js - RNnodeMongo
JS Signin.js M JS ForgotPassword.js U X JS auth.js .../controllers M JS auth.js .../routes M JS NavigationScreen.js M
client > screens > JS ForgotPassword.js > [e] ForgotPassword > [e] handlePasswordReset
4 import axios from "axios";
5
6 const ForgotPassword = ({ navigation }) => {
7   const [email, setEmail] = useState("");
8   const [password, setPassword] = useState("");
9   const [resetCode, setResetCode] = useState("");
10  const [visible, setVisible] = useState(false);
11
12  const handleSubmit = async () => {
13    if (!email) {
14      alert("Email is required");
15      return;
16    }
17    try {
18      const { data } = await axios.post("http://localhost:8000/api/forgot-password", { email });
19      if (data.error) alert(data.error);
20      else {
21        setVisible(true);
22        alert("Enter the password reset code");
23      }
24    } catch (err) { alert("Error sending email. Try again."); console.log(err); }
25  };
26
27  const handlePasswordReset = async () => {
28    try {
29      const { data } = await axios.post("http://localhost:8000/api/reset-password", { email, resetCode, password });
30      if (data.error) alert(data.error);
31      else {
32        alert("Now you can login with your new password");
33        navigation.navigate("Signin");
34      }
35    } catch (err) { console.log(err); alert("Password reset failed. Try again."); }
36  };
37
38 return (

```

ForgotPassword.js

Now, in the server -> controllers -> auth.js file, we already have the forgotPassword function. It will be using the send grid to send mail, which we created in the part-2.

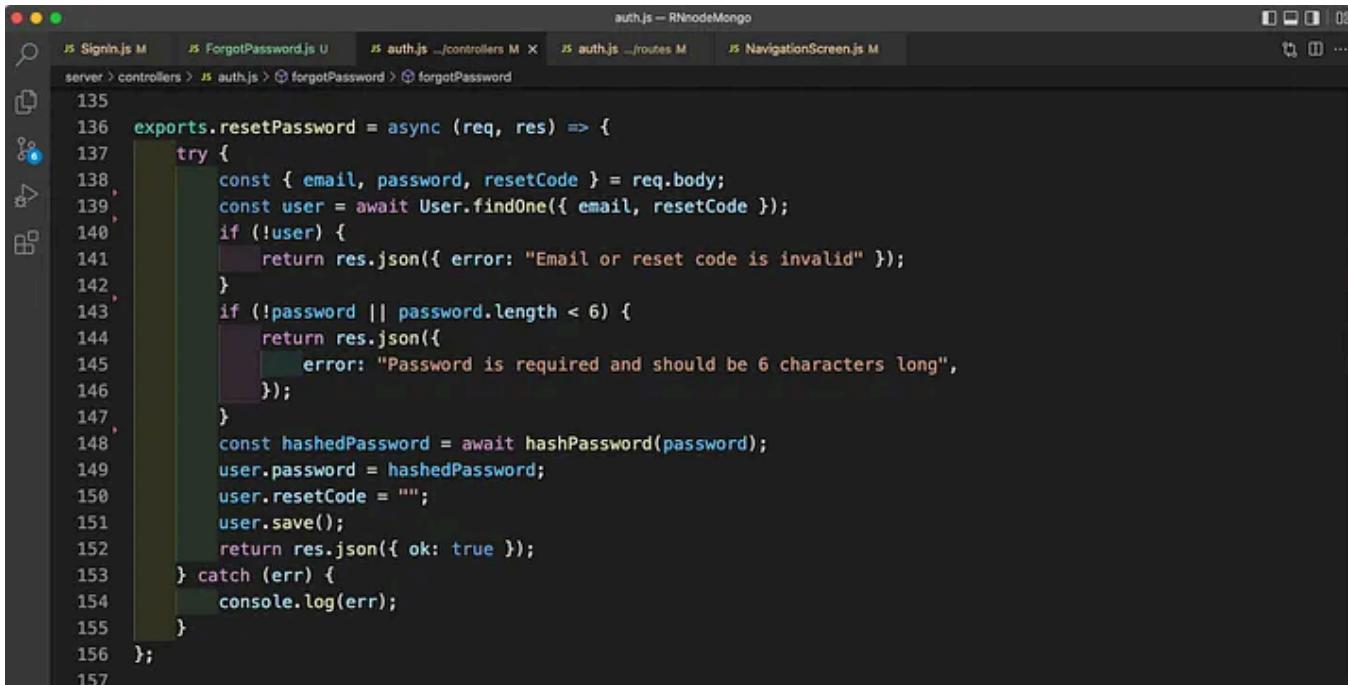


```
auth.js — RNnodeMongo
JS SignIn.js M JS ForgotPassword.js U JS auth.js .../controllers M X JS auth.js .../routes M JS NavigationScreen.js M
server > controllers > auth.js > forgotPassword > forgotPassword
109
110  exports.forgotPassword = async (req, res) => {
111    const { email } = req.body;
112    const user = await User.findOne({ email });
113    console.log("USER ===> ", user);
114    if (!user) {
115      return res.json({ error: "User not found" });
116    }
117    const resetCode = nanoid(5).toUpperCase();
118    user.resetCode = resetCode;
119    user.save();
120    const emailData = {
121      from: process.env.EMAIL_FROM,
122      to: user.email,
123      subject: "Password reset code",
124      html: `<h1>Password reset code : ${resetCode}</h1>`
125    };
126    try {
127      const data = await sgMail.send(emailData);
128      console.log(data);
129      res.json({ ok: true });
130    } catch (err) {
131      console.log(err);
132      res.json({ ok: false });
133    }
134  };

```

auth.js

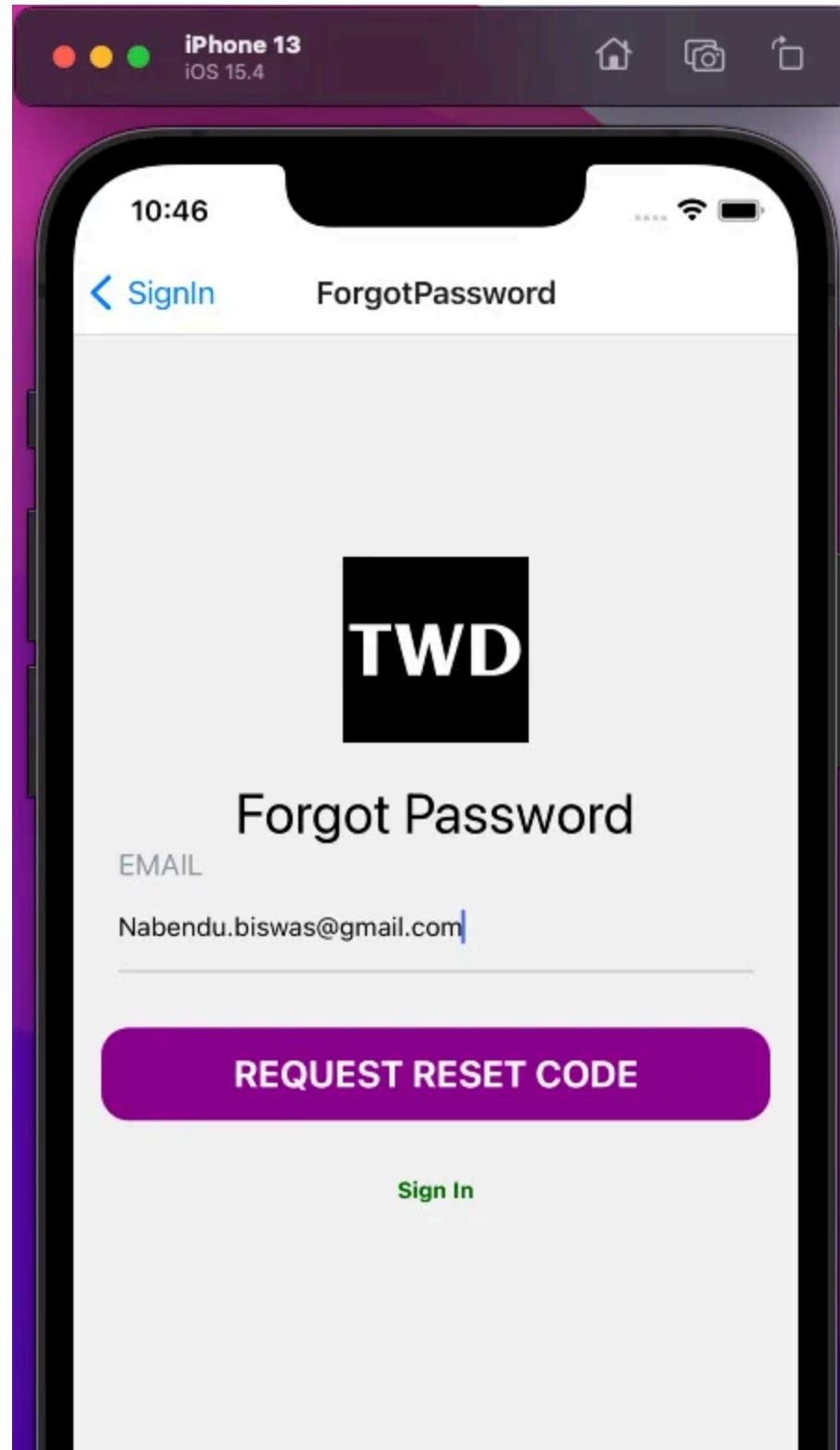
Now, we also have the resetPassword function in the server -> controllers -> **auth.js** file

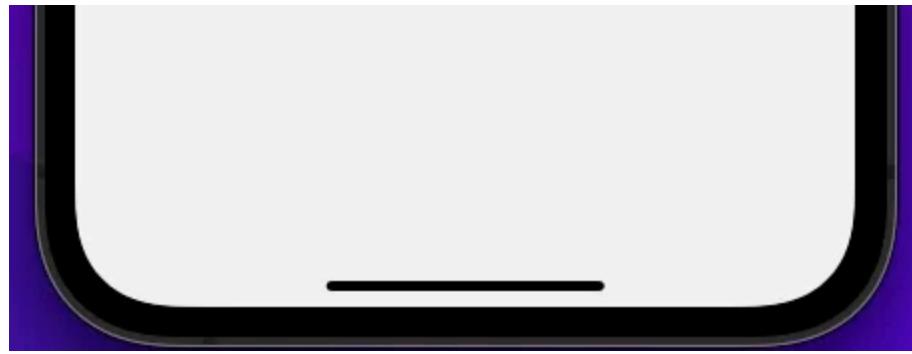


```
auth.js - RNnodeMongo
JS Signin.js M JS ForgotPassword.js U JS auth.js .../controllers M X JS auth.js .../routes M JS NavigationScreen.js M
server > controllers > JS auth.js > forgotPassword > forgotPassword
135
136 exports.resetPassword = async (req, res) => {
137   try {
138     const { email, password, resetCode } = req.body;
139     const user = await User.findOne({ email, resetCode });
140     if (!user) {
141       return res.json({ error: "Email or reset code is invalid" });
142     }
143     if (!password || password.length < 6) {
144       return res.json({
145         error: "Password is required and should be 6 characters long",
146       });
147     }
148     const hashedPassword = await hashPassword(password);
149     user.password = hashedPassword;
150     user.resetCode = "";
151     user.save();
152     return res.json({ ok: true });
153   } catch (err) {
154     console.log(err);
155   }
156 };
157
```

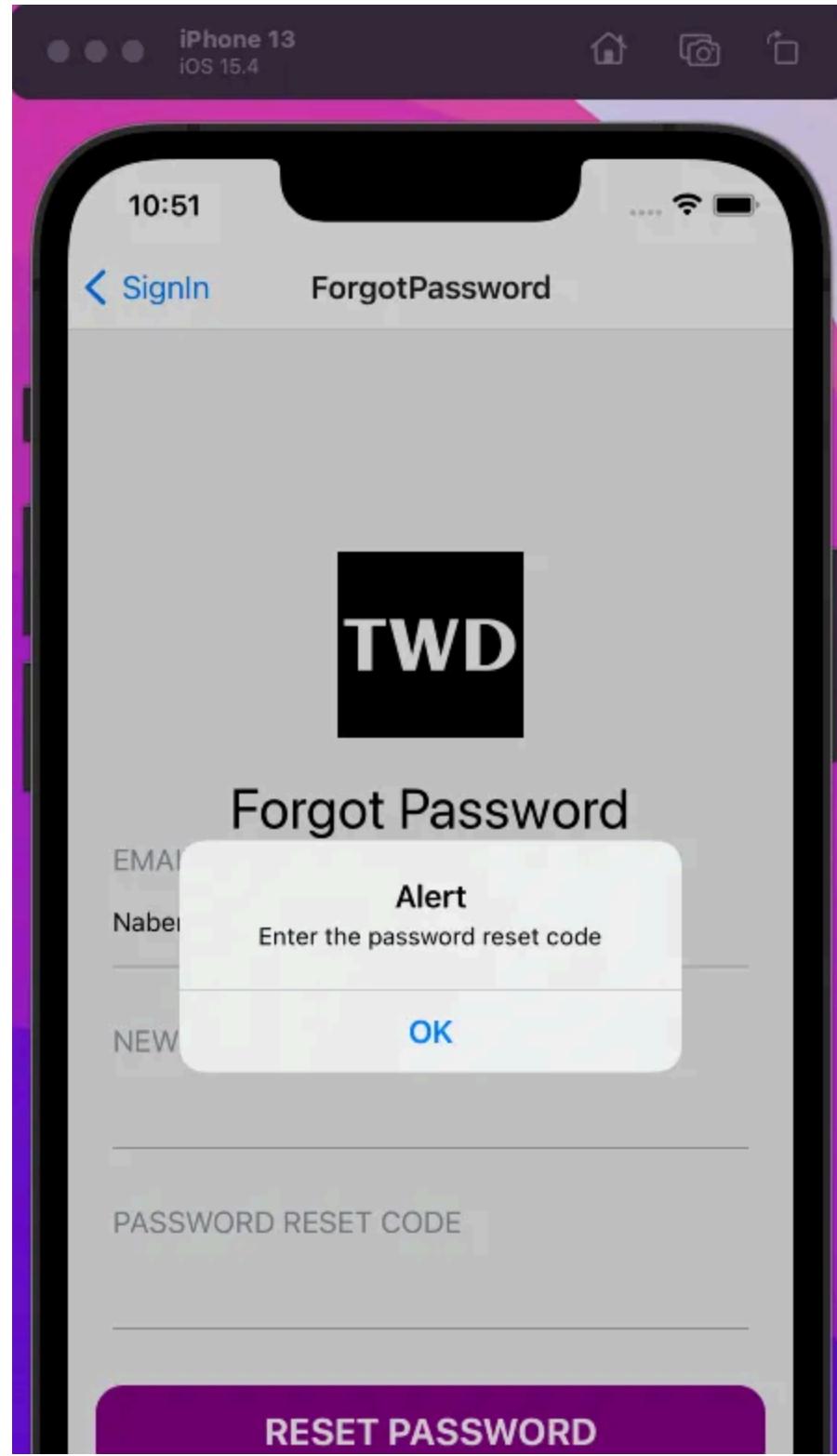
auth.js

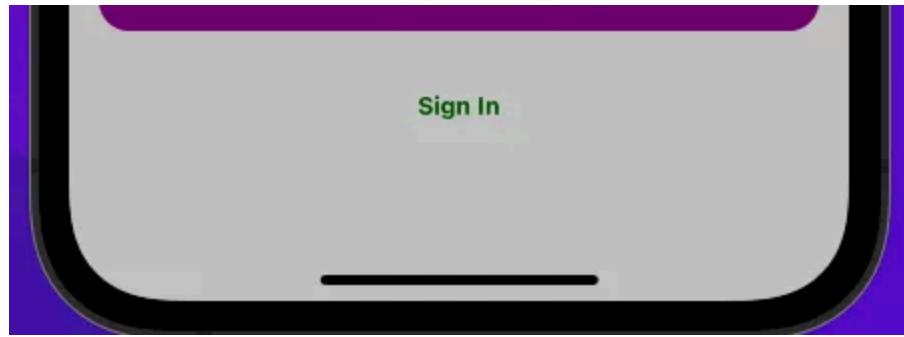
Now, in the app go to the ForgotPassword screen and give the password and click on the REQUEST RESET CODE button.





Once sucessful, we will get the alert to enter the password reset code.





Now, we will get the password reset code in our email.

A screenshot of an email inbox. The subject line is "Password reset code". The sender is "connect@twd.codes via sendgrid.net" and the recipient is "Nabendu Biswas". The email was sent at 10:51 (3 minutes ago). The body of the email contains the text "Password reset code : OCS6Y". Below the email are two buttons: "Reply" and "Forward". To the right of the email, the word "Reset code" is written in a small, gray font.

Password reset code

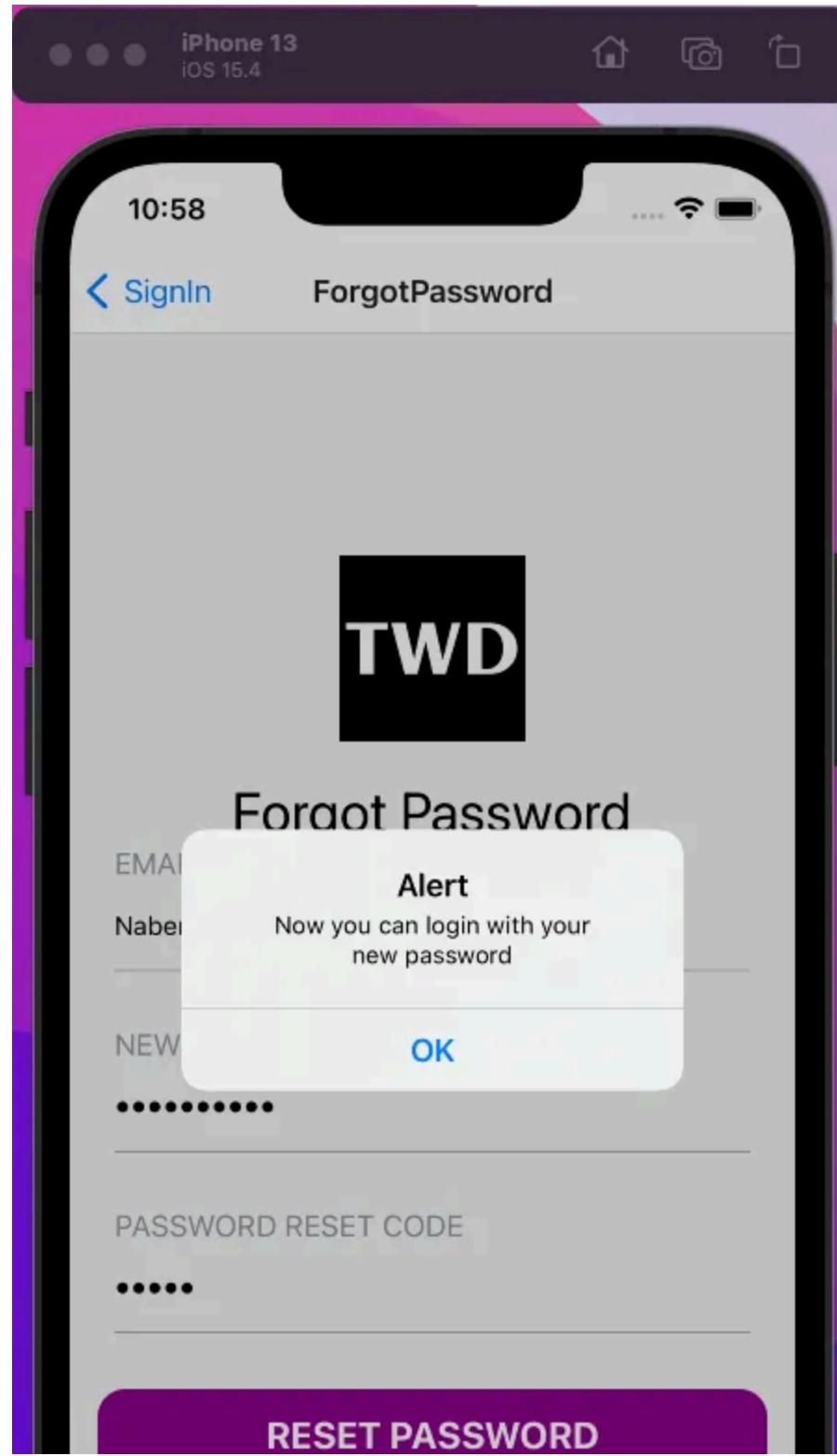
connect@twd.codes via sendgrid.net  
to Nabendu.biswas

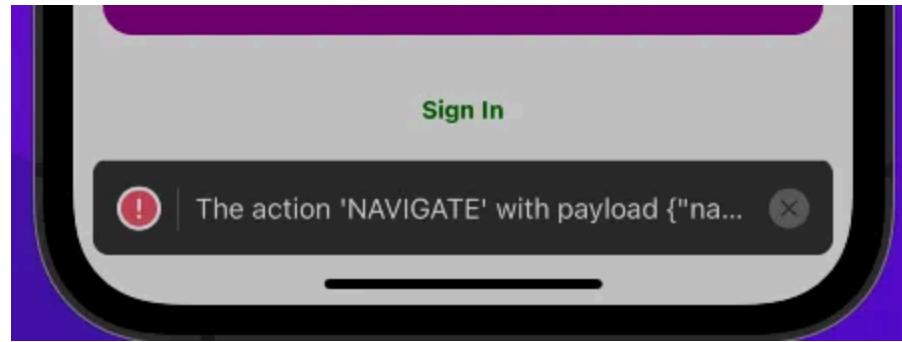
10:51 (3 minutes ago)

**Password reset code : OCS6Y**

Reset code

Now, when we enter the password reset code, with the new password, we will get the below pop-up.



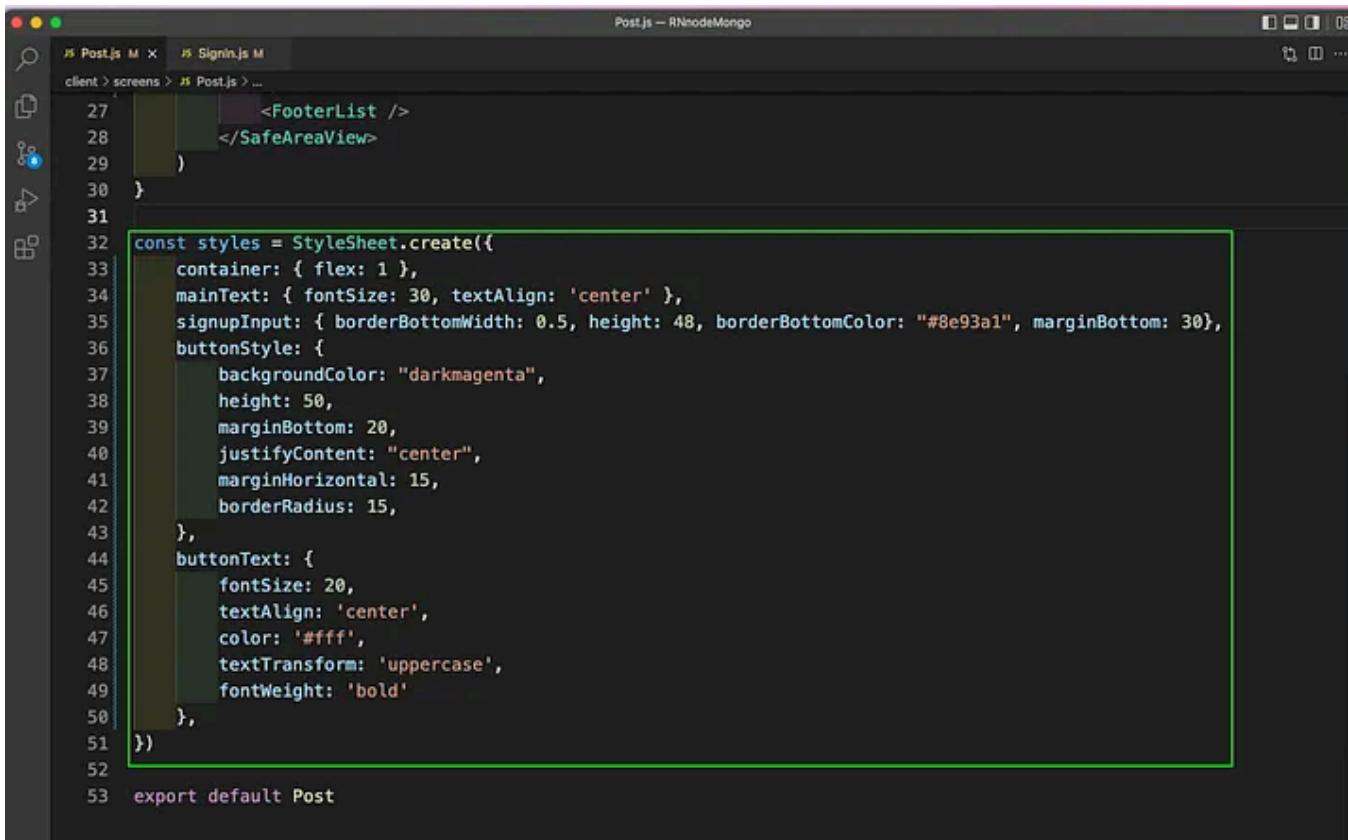


Next, we will update the `Post.js` file. Here, we are taking the Link and the Title from the user.

```
JS Post.js M X JS Signin.js M
client > screens > JS Post.js > ...
1 import { StyleSheet, Text, SafeAreaView, View, TextInput, TouchableOpacity, ScrollView } from 'react-native'
2 import React, { useState } from 'react'
3 import FooterList from '../components/footer/FooterList'
4
5 const Post = () => {
6   const [link, setLink] = useState("");
7   const [title, setTitle] = useState("");
8
9   const handleSubmit = () => console.log("title and link => ", title, link);
10
11   return (
12     <SafeAreaView style={styles.container}>
13       <ScrollView showsVerticalScrollIndicator={false}>
14         <Text style={styles.mainText}>POST</Text>
15         <View style={{ marginHorizontal: 24 }}>
16           <Text style={{ fontSize: 16, color: '#8e93a1' }}>LINK</Text>
17           <TextInput style={styles.signupInput} value={link} onChangeText={text => setLink(text)} autoCapitalize="none" autoCorrect={false} placeholder="Paste the url" />
18         </View>
19         <View style={{ marginHorizontal: 24 }}>
20           <Text style={{ fontSize: 16, color: '#8e93a1' }}>TITLE</Text>
21           <TextInput style={styles.signupInput} value={title} onChangeText={text => setTitle(text)} autoCapitalize="sentences" placeholder="Give a title" />
22         </View>
23         <TouchableOpacity onPress={handleSubmit} style={styles.buttonStyle}>
24           <Text style={styles.buttonText}>Submit</Text>
25         </TouchableOpacity>
26       </ScrollView>
27       <FooterList />
28     </SafeAreaView>
29   )
30 }
31
32 const styles = StyleSheet.create({
33   container: { flex: 1 },
```

Post.js

Next, we will update the styles for the Post.js file.

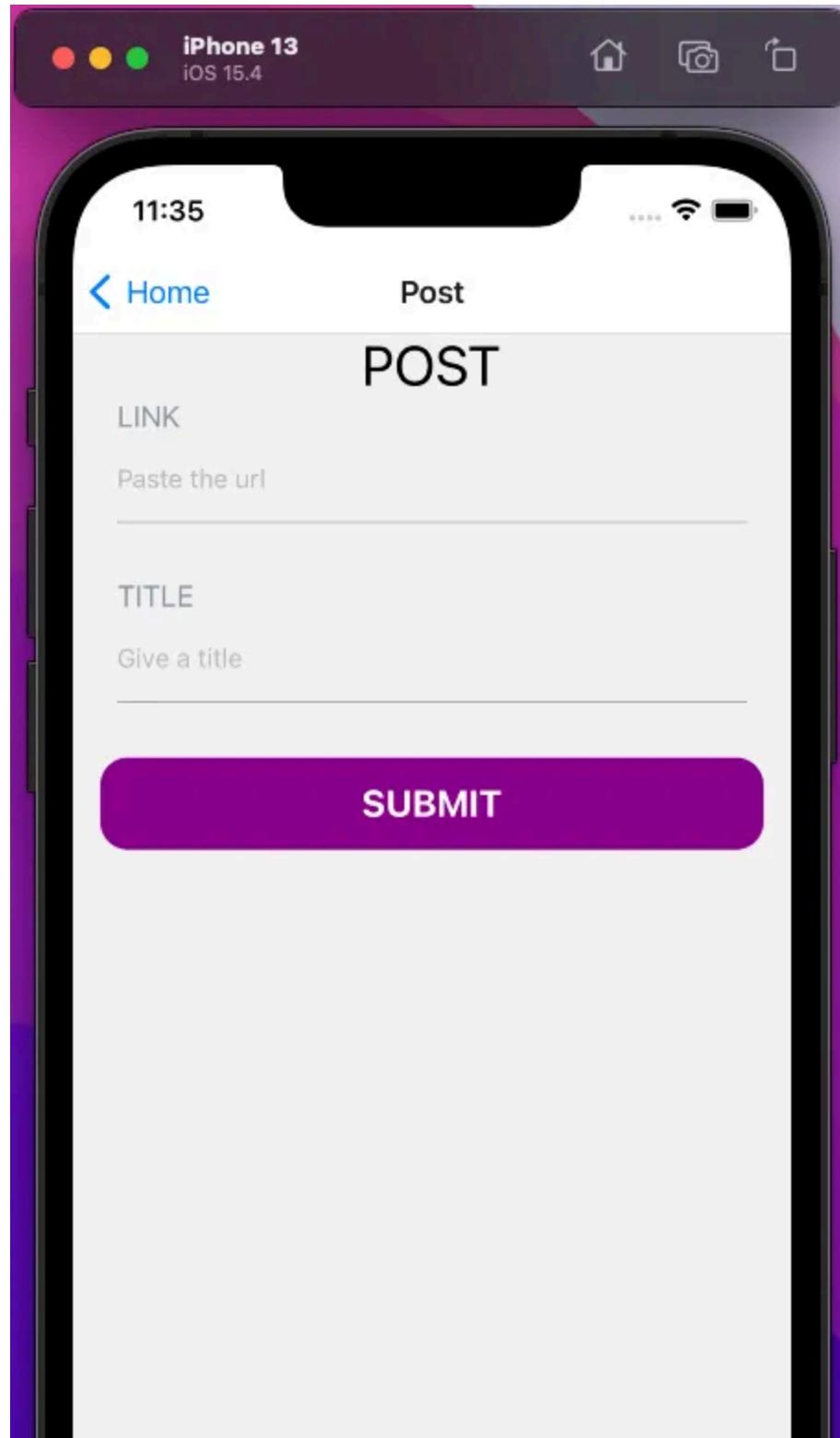


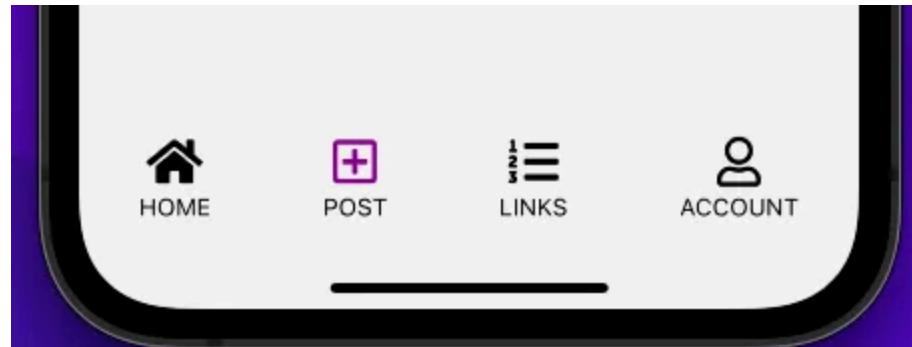
A screenshot of a code editor window titled "Post.js – RNnodeMongo". The window shows the file structure: "client > screens > Post.js". The code is written in JavaScript and includes a StyleSheet definition:

```
27   <FooterList />
28   </SafeAreaView>
29 }
30 }
31
32 const styles = StyleSheet.create({
33   container: { flex: 1 },
34   mainText: { fontSize: 30, textAlign: 'center' },
35   signupInput: { borderBottomWidth: 0.5, height: 48, borderBottomColor: "#8e93a1", marginBottom: 30},
36   buttonStyle: {
37     backgroundColor: "darkmagenta",
38     height: 50,
39     marginBottom: 20,
40     justifyContent: "center",
41     marginHorizontal: 15,
42     borderRadius: 15,
43   },
44   buttonText: {
45     fontSize: 20,
46     textAlign: 'center',
47     color: '#fff',
48     textTransform: 'uppercase',
49     fontWeight: 'bold'
50   },
51 })
52
53 export default Post
```

Post.js

Now, we will be able to see the Post page, when we click on the Post link in footer.





Next, we will move to the server and create a **link.js** file in the **models** folder. It contains two type of link and title.

```
JS Post.js M JS link.js U X
server > models > JS link.js > ...
1  const mongoose = require("mongoose");
2
3  const linkSchema = new mongoose.Schema(
4    {
5      link: {
6        type: String,
7        trim: true,
8        required: true,
9      },
10     title: {
11       type: String,
12       trim: true,
13       required: true,
14     }
15   },
16   { timestamps: true }
17 );
18
19 module.exports = mongoose.model("Link", linkSchema);
```

link.js

Next, we will create the route for the same in **link.js** file in the **routes** folder. Here, we have a post and a get route.

```
link.js — RNnodeMongo
JS Post.js M JS link.js .../models U JS link.js .../routes U X
server > routes > JS link.js > ...
1 const express = require("express");
2
3 const router = express.Router();
4
5 // controllers
6 const { postLink, links } = require("../controllers/link");
7
8 router.post("/post-link", postLink);
9 router.get("/links", links);
10
11 module.exports = router;
12 |
```

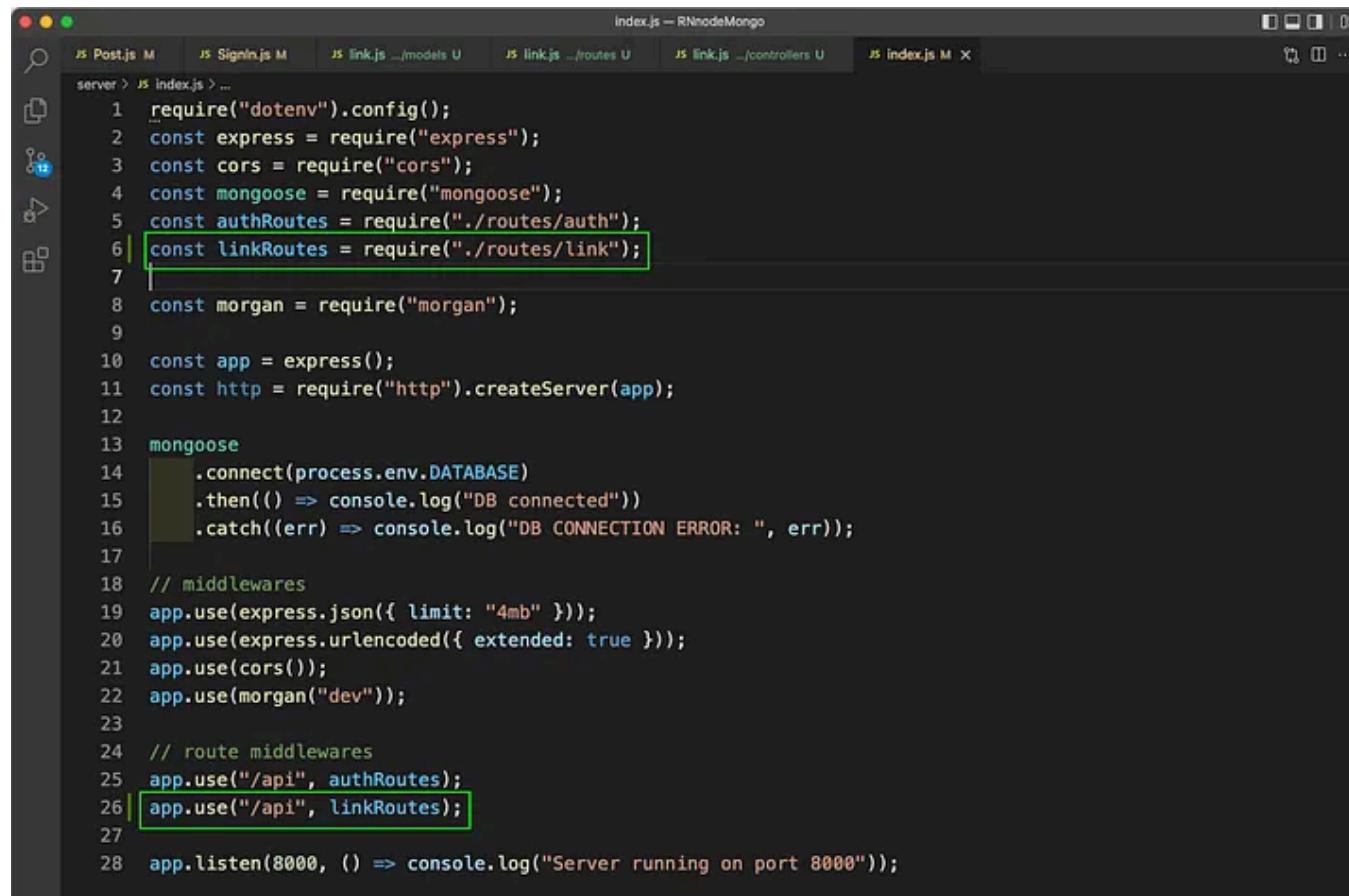
link.js

Now, we will create a **link.js** file in the **controllers** folder. Here, we have a post and get routes.

```
link.js — RNnodeMongo
JS Post.js M JS Signin.js M JS link.js U X JS Index.js M
server > controllers > JS link.js > ...
1 const Link = require("../models/link");
2
3 exports.postLink = async (req, res) => {
4   console.log(req.body)
5   try {
6     const link = await new Link({ ...req.body }).save();
7     res.json(link);
8   } catch (err) {
9     console.log(err);
10 }
11 };
12
13 exports.links = async (req, res) => {
14   try {
15     const all = await Link.find().sort({ createdAt: -1 }).limit(500);
16     res.json(all);
17   } catch (err) {
18     console.log(err);
19   }
20};
```

link.js

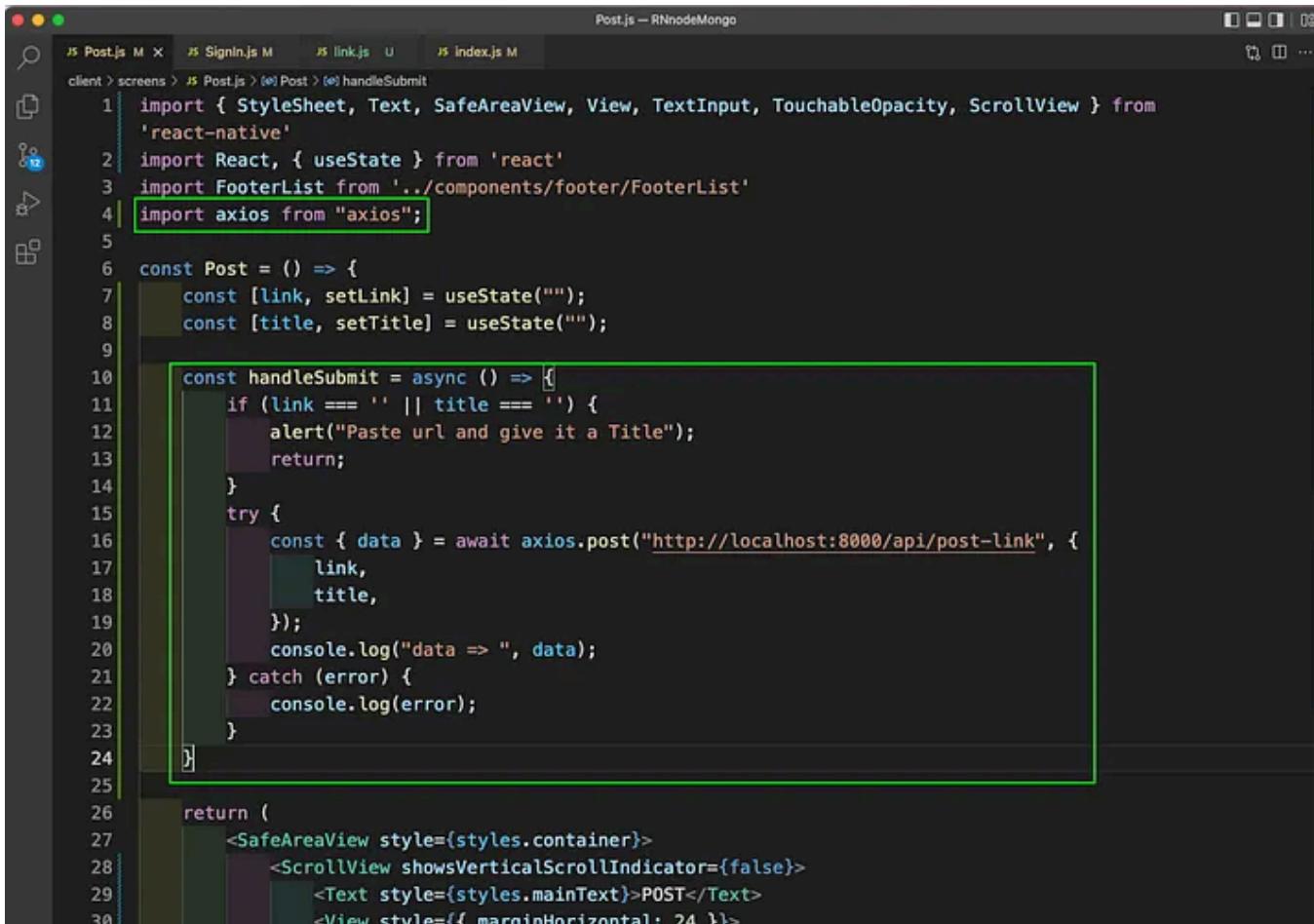
Next, we will also add the route in the **index.js** file.



```
index.js - RNnodeMongo
JS Post.js M JS Signin.js M JS link.js .../models U JS link.js .../routes U JS link.js .../controllers U JS index.js M X
server > JS index.js > ...
1  require("dotenv").config();
2  const express = require("express");
3  const cors = require("cors");
4  const mongoose = require("mongoose");
5  const authRoutes = require("./routes/auth");
6  const linkRoutes = require("./routes/link");
7
8  const morgan = require("morgan");
9
10 const app = express();
11 const http = require("http").createServer(app);
12
13 mongoose
14   .connect(process.env.DATABASE)
15   .then(() => console.log("DB connected"))
16   .catch((err) => console.log("DB CONNECTION ERROR: ", err));
17
18 // middlewares
19 app.use(express.json({ limit: "4mb" }));
20 app.use(express.urlencoded({ extended: true }));
21 app.use(cors());
22 app.use(morgan("dev"));
23
24 // route middlewares
25 app.use("/api", authRoutes);
26 app.use("/api", linkRoutes);
27
28 app.listen(8000, () => console.log("Server running on port 8000"));
```

index.js

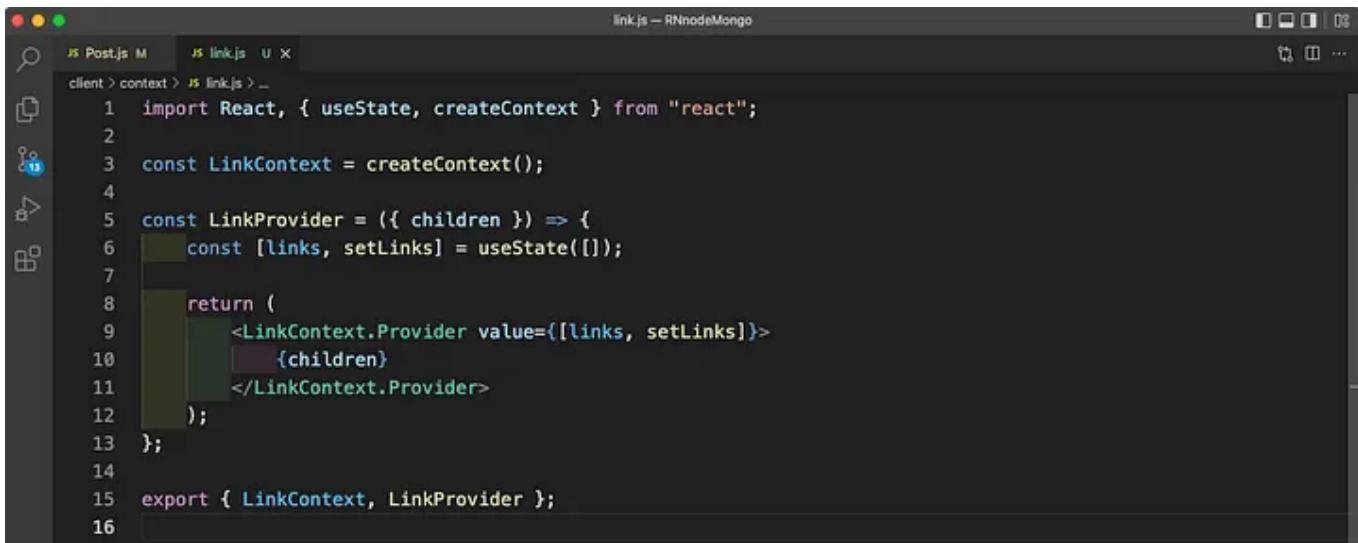
Now, we will go back to the **Post.js** file and add the route in the **handleSubmit**, where we are passing the link and the title.



```
Post.js - RNnodeMongo
JS Post.js M X JS Signin.js M JS link.js U JS index.js M
client > screens > JS Post.js > (e) Post > (e) handleSubmit
1 import { StyleSheet, Text, SafeAreaView, View, TextInput, TouchableOpacity, ScrollView } from
2   'react-native'
3 import React, { useState } from 'react'
4 import FooterList from '../components/footer/FooterList'
5 import axios from "axios";
6
7 const Post = () => {
8   const [link, setLink] = useState("");
9   const [title, setTitle] = useState("");
10
11   const handleSubmit = async () => {
12     if (link === "" || title === "") {
13       alert("Paste url and give it a Title");
14       return;
15     }
16     try {
17       const { data } = await axios.post("http://localhost:8000/api/post-link", {
18         link,
19         title,
20       });
21       console.log("data => ", data);
22     } catch (error) {
23       console.log(error);
24     }
25   }
26
27   return (
28     <SafeAreaView style={styles.container}>
29       <ScrollView showsVerticalScrollIndicator={false}>
30         <Text style={styles.mainText}>POST</Text>
31         <View style={{ marginHorizontal: 24 }}>
```

Post.js

We want to have this link data at Home component also, so we will create context for it. Create a file **link.js** inside the **context** folder and add the below content in it.

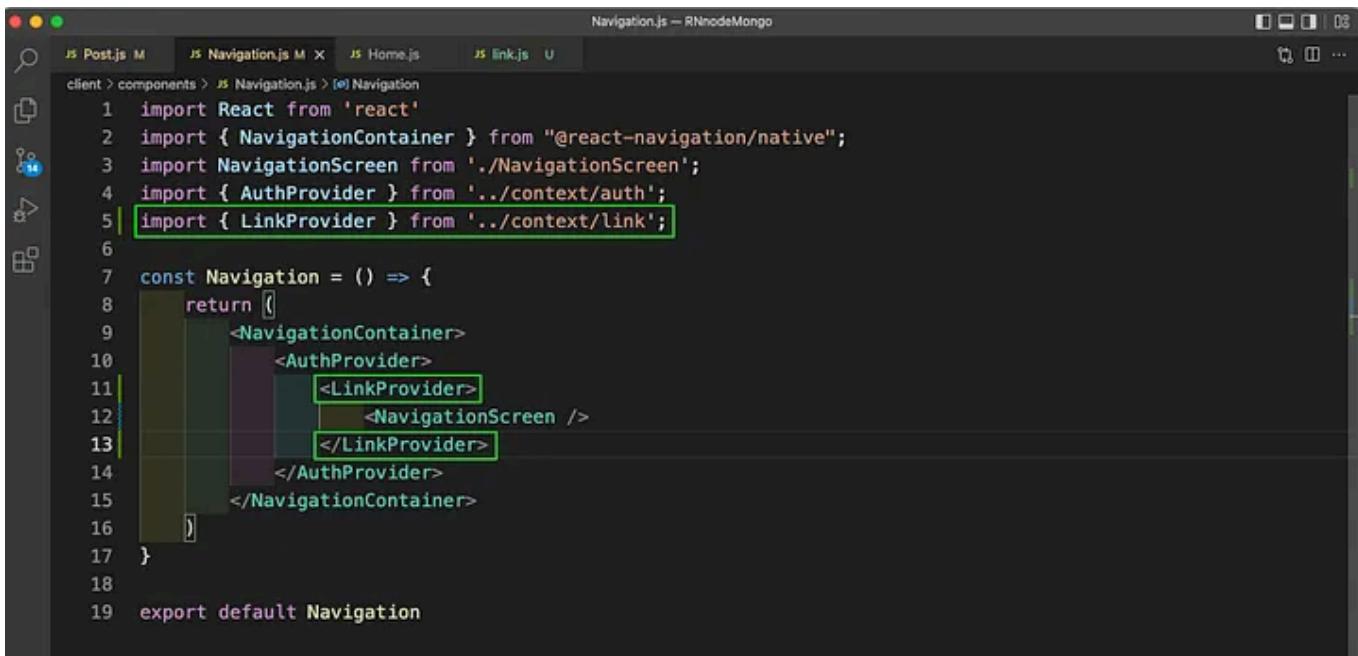


A screenshot of a code editor window titled "link.js – RNnodeMongo". The file content is as follows:

```
client > context > js link.js > ...
1 import React, { useState, createContext } from "react";
2
3 const LinkContext = createContext();
4
5 const LinkProvider = ({ children }) => {
6   const [links, setLinks] = useState([]);
7
8   return (
9     <LinkContext.Provider value={[links, setLinks]}>
10       {children}
11     </LinkContext.Provider>
12   );
13 };
14
15 export { LinkContext, LinkProvider };
16
```

link.js

Now, we will also add it in the Navigation.js file.



A screenshot of a code editor window titled "Navigation.js – RNnodeMongo". The file content is as follows:

```
client > components > js Navigation.js > (e) Navigation
1 import React from 'react'
2 import { NavigationContainer } from "@react-navigation/native";
3 import NavigationScreen from './NavigationScreen';
4 import { AuthProvider } from '../context/auth';
5 import { LinkProvider } from '../context/link';
6
7 const Navigation = () => {
8   return (
9     <NavigationContainer>
10       <AuthProvider>
11         <LinkProvider>
12           <NavigationScreen />
13         </LinkProvider>
14       </AuthProvider>
15     </NavigationContainer>
16   )
17 }
18
19 export default Navigation
```

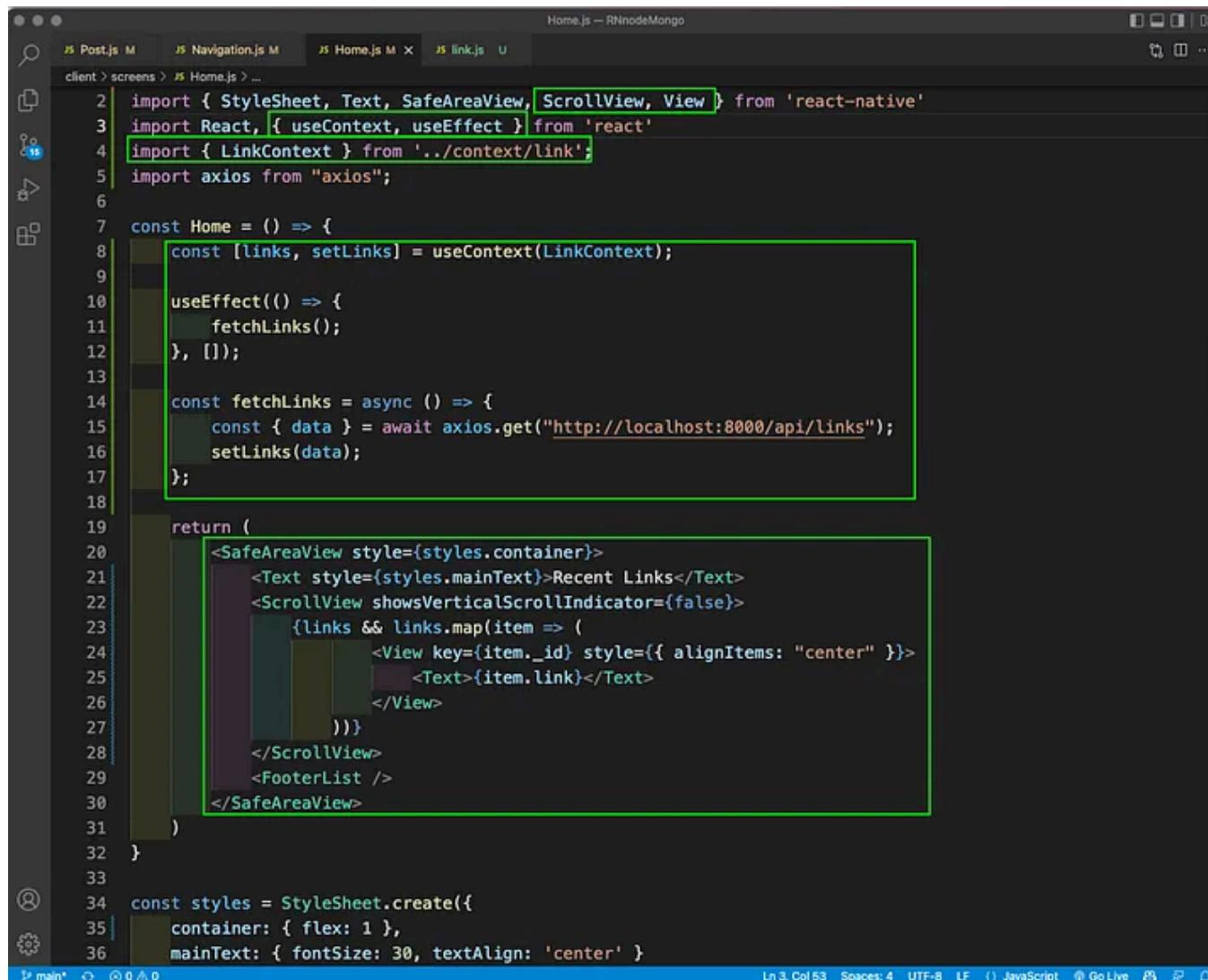
Navigation.js

Lastly add the received data from post-link endpoint to the setLinks context api in Post.js file. Here, we are also navigating to home after .5 seconds.

```
Post.js - RNnodeMongo
JS Post.js M X JS Navigation.js M JS Home.js JS link.js U
client > screens > JS Post.js > (e) Post > (e) handleSubmit
1 import { StyleSheet, Text, SafeAreaView, View, TextInput, TouchableOpacity, ScrollView } from
  'react-native'
2 import React, { useContext, useState } from 'react'
3 import FooterList from '../components/footer/FooterList'
4 import axios from "axios";
5 import { LinkContext } from '../context/link';
6
7 const Post = ({ navigation }) => {
8   const [link, setLink] = useState("");
9   const [title, setTitle] = useState("");
10  const [links, setLinks] = useContext(LinkContext);
11
12  const handleSubmit = async () => {
13    if (link === '' || title === '') {
14      alert("Paste url and give it a Title");
15      return;
16    }
17    try {
18      const { data } = await axios.post("http://localhost:8000/api/post-link", {
19        link,
20        title,
21      });
22      console.log("data => ", data);
23      setLinks([data, ...links]);
24      setTimeout(() => {
25        alert("Link posted");
26        navigation.navigate("Home");
27      }, 500);
28    } catch (error) {
29      console.log(error);
30    }
31  }
32
33  return (
34    <SafeAreaView style={styles.container}>
```

Post.js

Now, in the `Home.js` we will use the get endpoint to get the links data and show it by mapping through it.



The screenshot shows a code editor with the file `Home.js` open. The code is as follows:

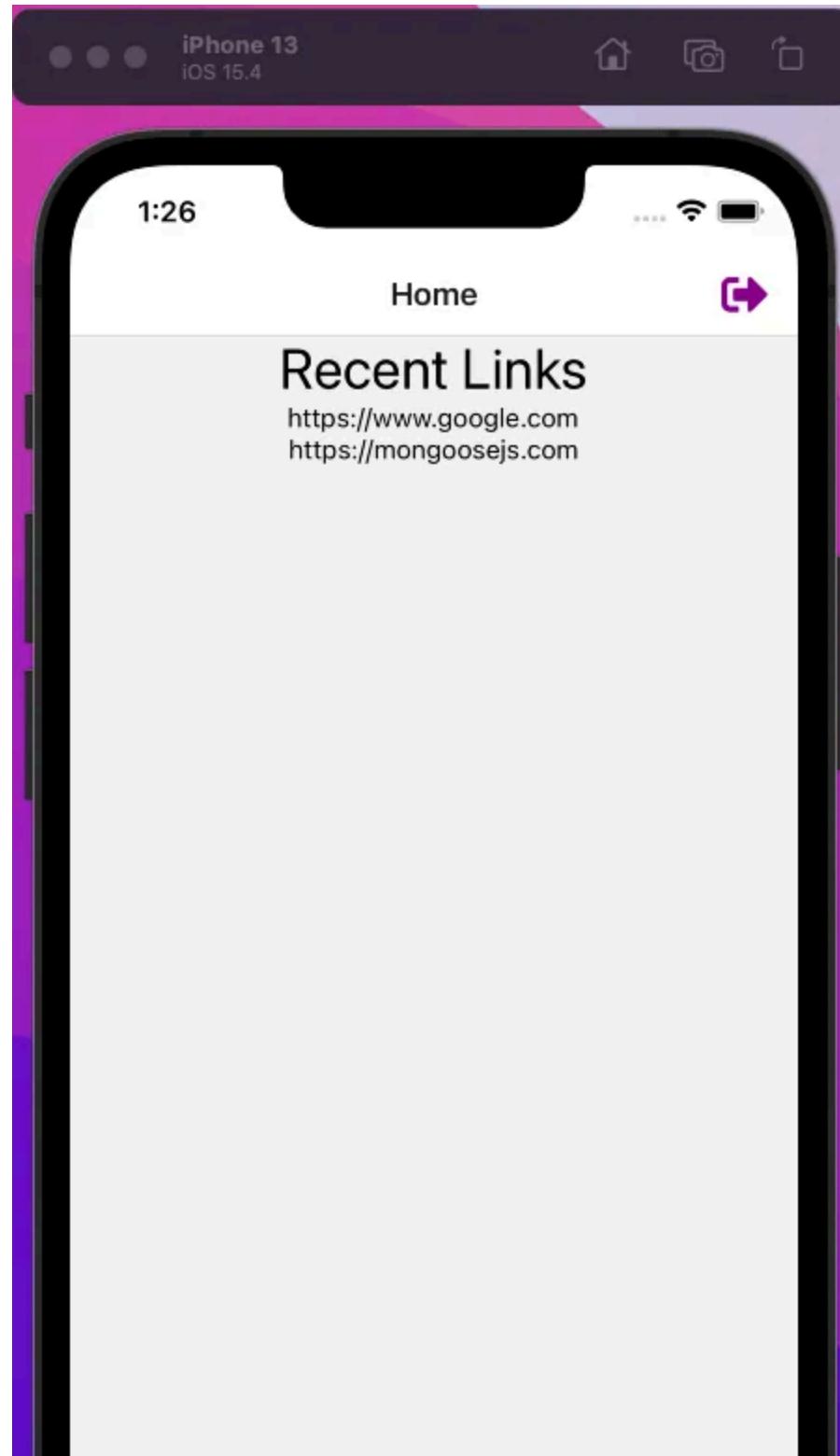
```
2 import { StyleSheet, Text, SafeAreaView, ScrollView, View } from 'react-native'
3 import React, { useContext, useEffect } from 'react'
4 import { LinkContext } from '../context/link';
5 import axios from "axios";
6
7 const Home = () => {
8     const [links, setLinks] = useContext(LinkContext);
9
10    useEffect(() => {
11        fetchLinks();
12    }, []);
13
14    const fetchLinks = async () => {
15        const { data } = await axios.get("http://localhost:8000/api/links");
16        setLinks(data);
17    };
18
19    return (
20        <SafeAreaView style={styles.container}>
21            <Text style={styles.mainText}>Recent Links</Text>
22            <ScrollView showsVerticalScrollIndicator={false}>
23                {links && links.map(item => (
24                    <View key={item._id} style={{ alignItems: "center" }}>
25                        <Text>{item.link}</Text>
26                    </View>
27                ))}
28            </ScrollView>
29            <FooterList />
30        </SafeAreaView>
31    );
32}
33
34 const styles = StyleSheet.create({
35     container: { flex: 1 },
36     mainText: { fontSize: 30, textAlign: 'center' }
37 }
```

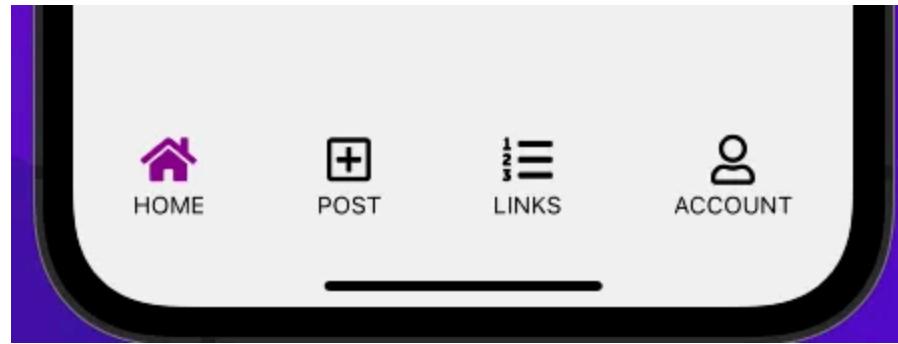
Two sections of the code are highlighted with green boxes:

- The first section highlights the `useEffect` hook and the `fetchLinks` function.
- The second section highlights the `return` block, specifically the `SafeAreaView`, `Text`, `ScrollView`, and the mapping logic for displaying the links.

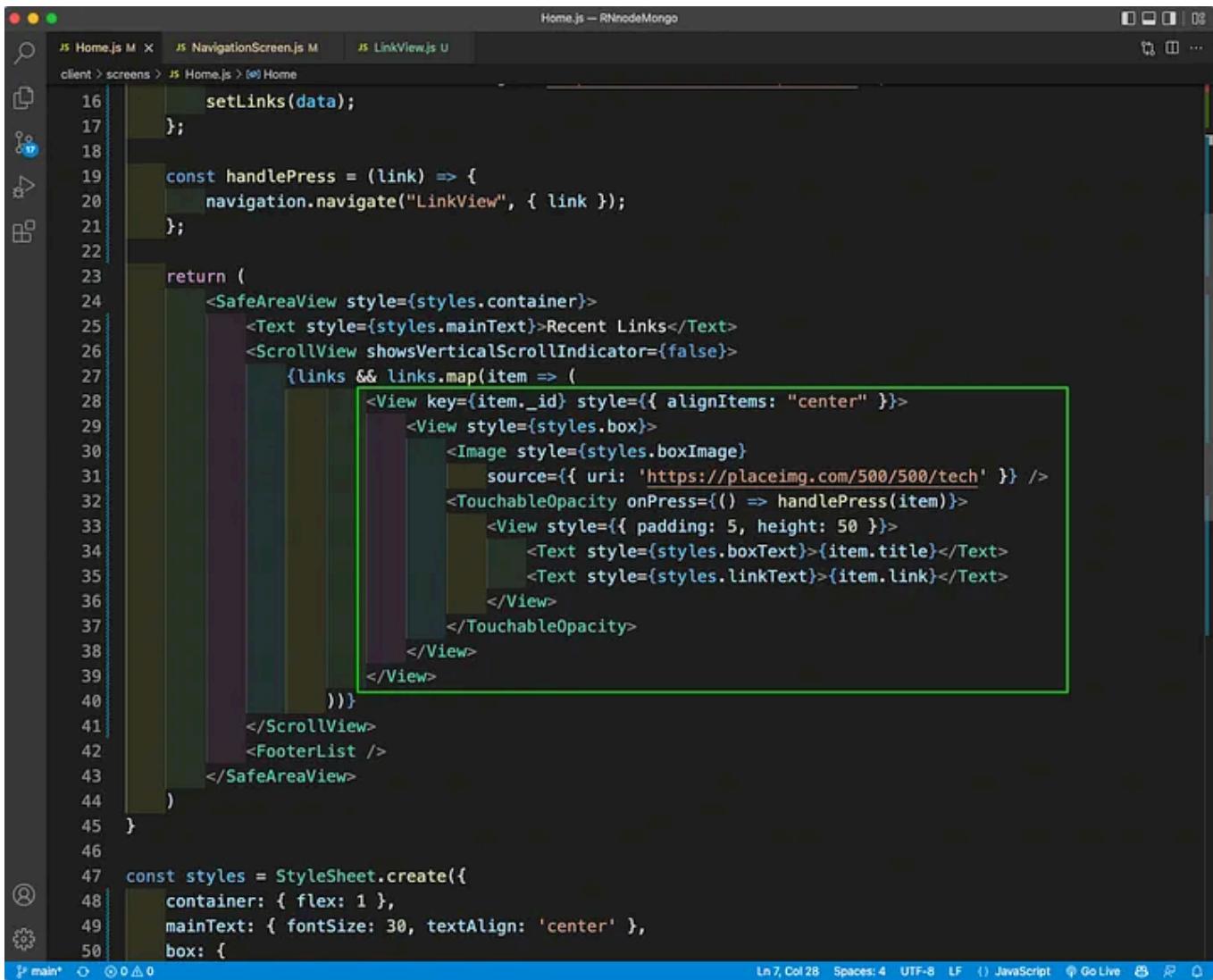
Home.js

Now, we are getting the links in the Home page.





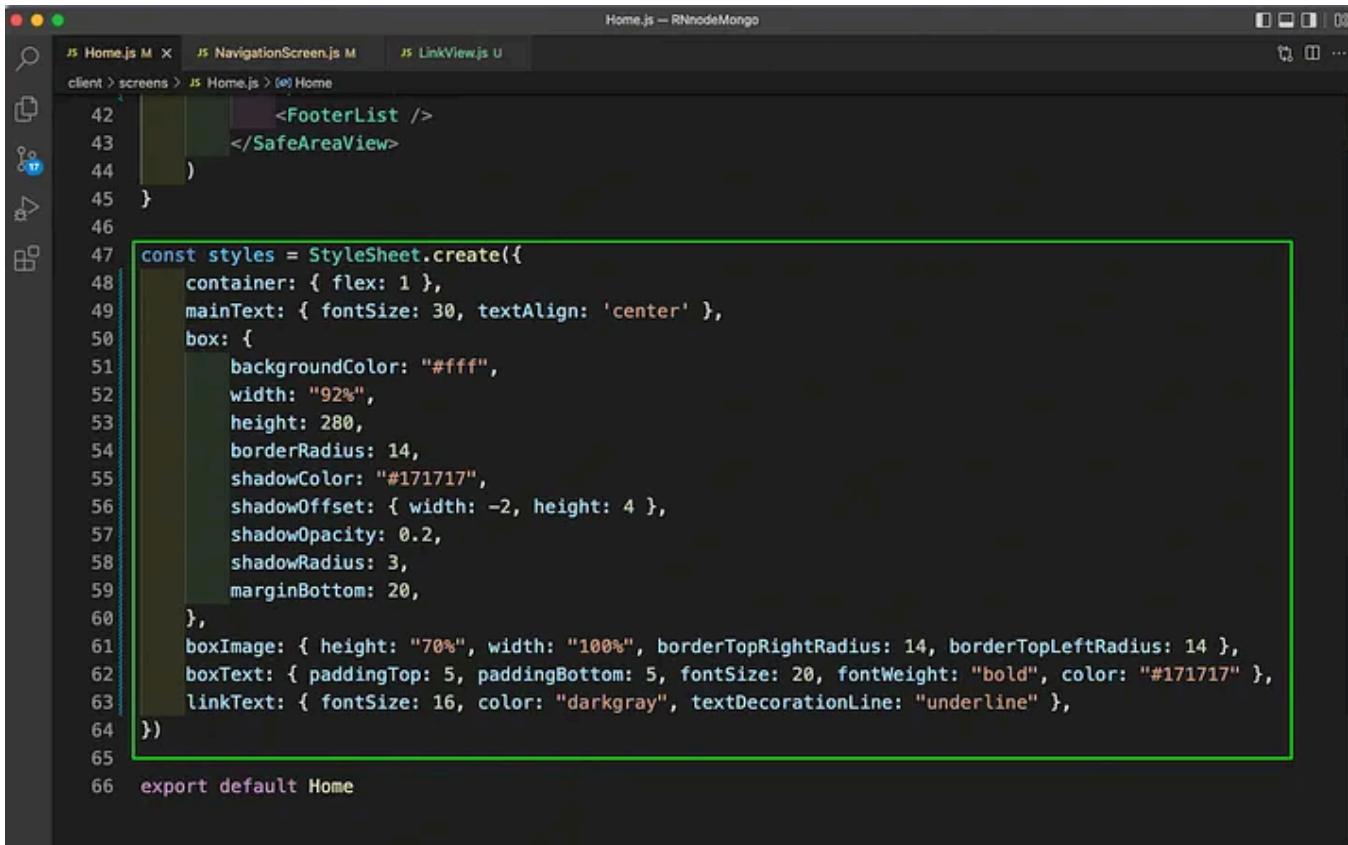
Now, we will show these links in a nice style and also show a random image in `Home.js` file.



```
Home.js - RNnodeMongo
JS Home.js M JS NavigationScreen.js M JS LinkView.js U
Client > screens > JS Home.js > Home
16     setLinks(data);
17   );
18
19   const handlePress = (link) => {
20     navigation.navigate("LinkView", { link });
21   };
22
23   return (
24     <SafeAreaView style={styles.container}>
25       <Text style={styles.mainText}>Recent Links</Text>
26       <ScrollView showsVerticalScrollIndicator={false}>
27         {links && links.map(item => (
28           <View key={item._id} style={{ alignItems: "center" }}>
29             <View style={styles.box}>
30               <Image style={styles.boxImage}>
31                 source={{ uri: 'https://placeimg.com/500/500/tech' }} />
32               <TouchableOpacity onPress={() => handlePress(item)}>
33                 <View style={{ padding: 5, height: 50 }}>
34                   <Text style={styles.boxText}>{item.title}</Text>
35                   <Text style={styles.linkText}>{item.link}</Text>
36                 </View>
37               </TouchableOpacity>
38             </View>
39           ))}
40         </ScrollView>
41         <FooterList />
42       </SafeAreaView>
43     )
44   }
45
46   const styles = StyleSheet.create({
47     container: { flex: 1 },
48     mainText: { fontSize: 30, textAlign: 'center' },
49     box: {
```

Home.js

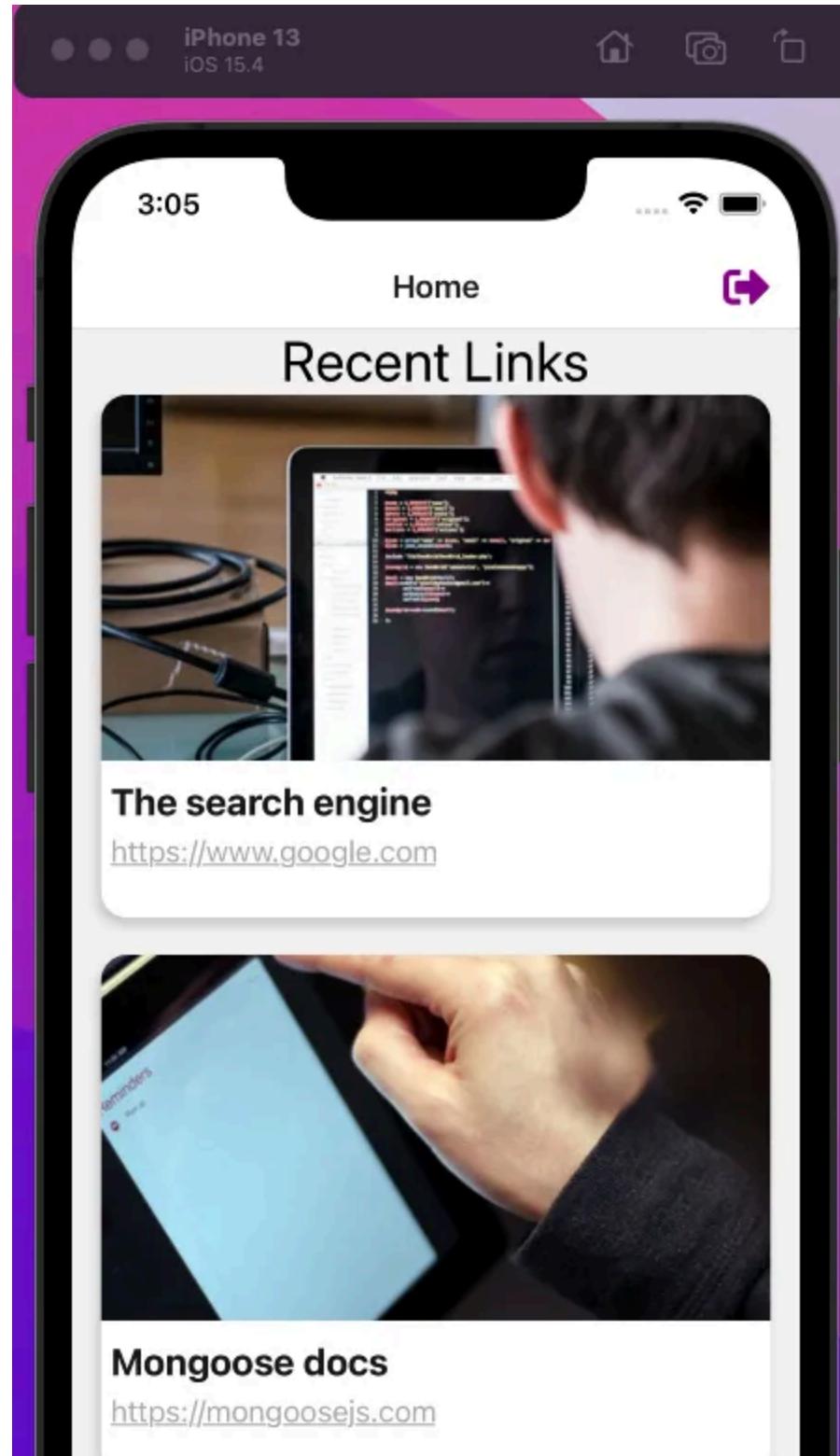
Now, we will also add the styles for the same in Home.js file.

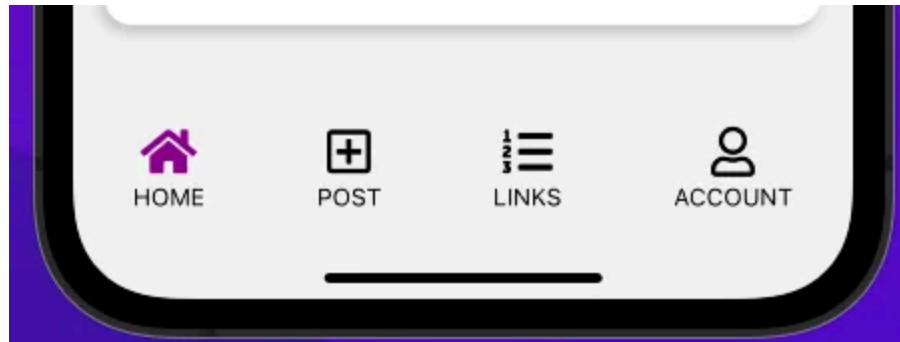


```
Home.js — RNnodeMongo
JS Home.js M X JS NavigationScreen.js M JS LinkView.js U
client > screens > JS Home.js > (e) Home
42   <FooterList />
43   </SafeAreaView>
44 }
45
46
47 const styles = StyleSheet.create({
48   container: { flex: 1 },
49   mainText: { fontSize: 30, textAlign: 'center' },
50   box: {
51     backgroundColor: "#fff",
52     width: "92%",
53     height: 280,
54     borderRadius: 14,
55     shadowColor: "#171717",
56     shadowOffset: { width: -2, height: 4 },
57     shadowOpacity: 0.2,
58     shadowRadius: 3,
59     marginBottom: 20,
60   },
61   boxImage: { height: "70%", width: "100%", borderTopRightRadius: 14, borderTopLeftRadius: 14 },
62   boxText: { paddingTop: 5, paddingBottom: 5, fontSize: 20, fontWeight: "bold", color: "#171717" },
63   linkText: { fontSize: 16, color: "darkgray", textDecorationLine: "underline" },
64 })
65
66 export default Home
```

Home.js

Now, in Home component we are able to see these links in a nice view.





Now, we want to show these links in a web-view. So, we will install library for the same in client folder.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
nabendubiswas@Nabendu-Mac-mini ~/Projects/RNnodeMongo/client (main)$ npm i react-native-webview
added 2 packages, and audited 925 packages in 3s
34 packages are looking for funding
  run 'npm fund' for details
5 high severity vulnerabilities
To address all issues (including breaking changes), run:
  npm audit fix --force
Run 'npm audit' for details.
nabendubiswas@Nabendu-Mac-mini ~/Projects/RNnodeMongo/client (main)$
```

Ln 41, Col 24 Spaces: 4 UTF-8 LF ⓘ JavaScript Go Live ⌂ ⌂ ⌂

Next, in the **Home.js** file we will add a onPress handler, which will call the function handlePress. It will navigate use to a new LinkView.

The screenshot shows a code editor window with the file `Home.js` open. The code is written in JavaScript and uses React Native syntax. The file imports `LinkContext` and defines a functional component `Home`. It includes an `useEffect` hook to fetch links from a local API and a `handlePress` function to navigate to a `LinkView` screen. The code is annotated with a green box around the `handlePress` function and its call site in the render method.

```
const Home = ({ navigation }) => {
  const [links, setLinks] = useContext(LinkContext);

  useEffect(() => {
    fetchLinks();
  }, []);

  const fetchLinks = async () => {
    const { data } = await axios.get("http://localhost:8000/api/links");
    setLinks(data);
  };

  const handlePress = (link) => {
    navigation.navigate("LinkView", { link });
  };

  return (
    <SafeAreaView style={styles.container}>
      <Text style={styles.mainText}>Recent Links</Text>
      <ScrollView showsVerticalScrollIndicator={false}>
        {links && links.map(item => (
          <View key={item._id} style={{ alignItems: "center" }}>
            <View style={styles.box}>
              <Image style={styles.boxImage}
                source={{ uri: 'https://placeimg.com/500/500/tech' }} />
              <TouchableOpacity onPress={() => handlePress(item)}>
                <View style={{ padding: 5, height: 50 }}>
                  <Text style={styles.boxText}>{item.title}</Text>
                  <Text style={styles.linkText}>{item.link}</Text>
                </View>
              </TouchableOpacity>
            </View>
          </View>
        )));
      </ScrollView>
    </SafeAreaView>
  );
}

main* 0 0 0 0 Ln 7, Col 28 Spaces: 4 UTF-8 LF JavaScript Go Live
```

Home.js

Now, we will also add it in the `NavigationScreen.js` file.

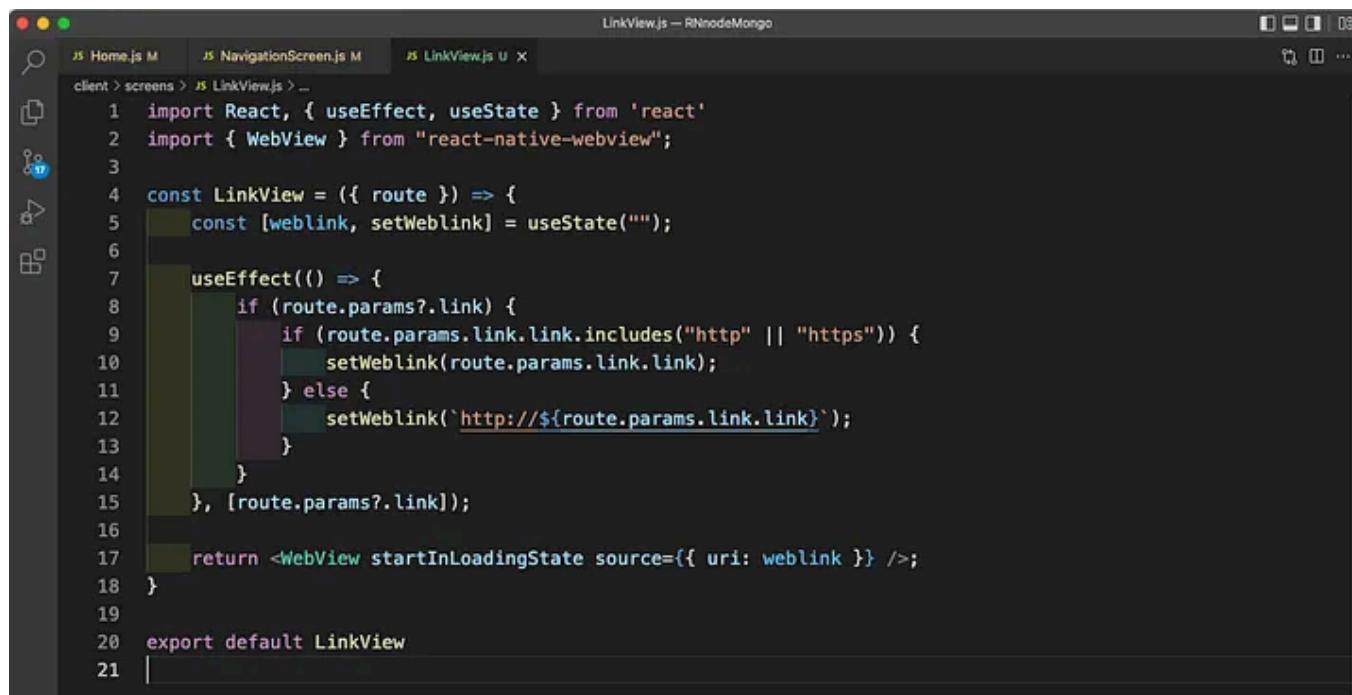
The screenshot shows a code editor window with a dark theme. The file being edited is `NavigationScreen.js`. The code defines a `StackNavigator` with different screens based on authentication status. The `LinkView` component is imported from `../screens/LinkView`. The `LinkView` screen is highlighted with a green box.

```
JS Home.js M JS NavigationScreen.js M X JS LinkView.js U
client > components > JS NavigationScreen.js > NavigationScreen
10 import Links from '../screens/Links';
11 import ForgotPassword from '../screens/ForgotPassword';
12 import LinkView from '../screens/LinkView';
13
14 const Stack = createNativeStackNavigator();
15
16 const NavigationScreen = () => {
17   const [state, setState] = useContext(AuthContext);
18   const authenticated = state && state.token !== "" && state.user !== null;
19
20   return (
21     <Stack.Navigator initialRouteName="Home">
22       {authenticated ? (
23         (
24           <Stack.Screen name="Home" component={Home} options={{ headerRight: () =>
25             <HeaderTabs /> } } />
26           <Stack.Screen name="Account" component={Account} />
27           <Stack.Screen name="Post" component={Post} />
28           <Stack.Screen name="Links" component={Links} />
29           <Stack.Screen name="LinkView" component={LinkView} />
30         ) : (
31           <Stack.Screen name="SignIn" component={SignIn} />
32           <Stack.Screen name="SignUp" component={SignUp} />
33           <Stack.Screen name="ForgotPassword" component={ForgotPassword} />
34         )
35       )
36     </Stack.Navigator>
37   )
38 }
39
40
41
42
43 export default NavigationScreen
```

NavigationScreen.js

Now, we will create a `LinkView.js` file in the `screens` folder. Here, we are using the `WebView` and setting it to the weblink.

We are also checking that if a link doesn't includes http or https, then to include it.



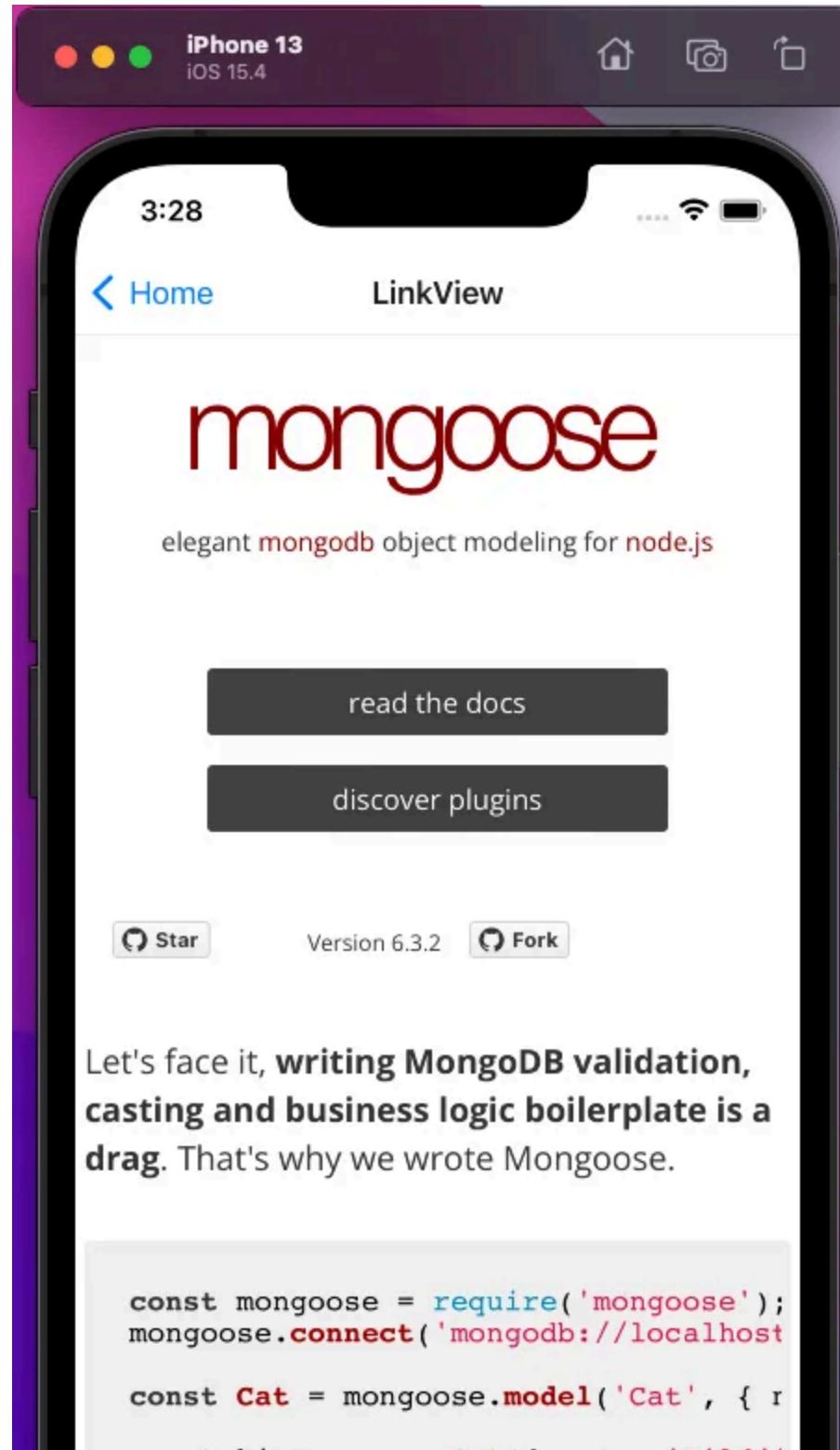
A screenshot of a code editor showing the file `LinkView.js`. The code is written in JavaScript and uses the `react-native-webview` library. It defines a component `LinkView` that takes a `route` prop. Inside the component, a `useEffect` hook is used to check if the `link` property in `route.params` exists. If it does, it checks if the `link` string contains either `"http"` or `"https"`. If it does not, it adds `"http://"` before the link. Finally, it sets the `weblink` state to the modified link and returns a `WebView` component with the `uri` set to the `weblink`.

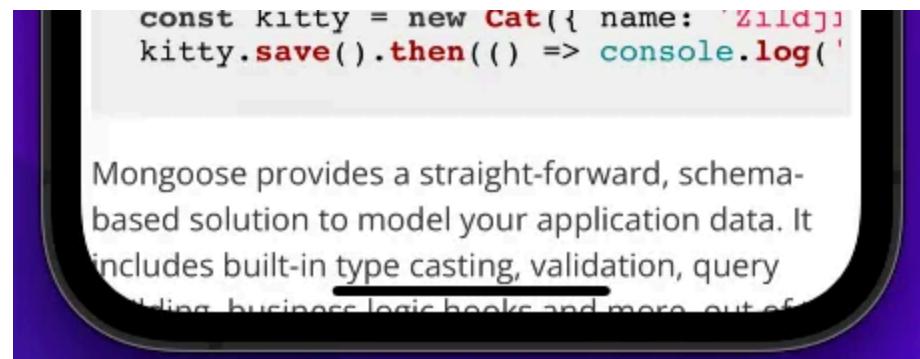
```
JS Home.js M JS NavigationScreen.js M JS LinkView.js U X
client > screens > JS LinkView.js > ...
1 import React, { useEffect, useState } from 'react'
2 import { WebView } from "react-native-webview";
3
4 const LinkView = ({ route }) => {
5   const [weblink, setWeblink] = useState("");
6
7   useEffect(() => {
8     if (route.params?.link) {
9       if (route.params.link.link.includes("http" || "https")) {
10         setWeblink(route.params.link.link);
11       } else {
12         setWeblink(`http://${route.params.link.link}`);
13       }
14     }
15   }, [route.params?.link]);
16
17   return <WebView startInLoadingState source={{ uri: weblink }} />;
18 }
19
20 export default LinkView
21 |
```

LinkView.js

Now, when we click on any link in the Home page, it will take us to the mobile view of the site.



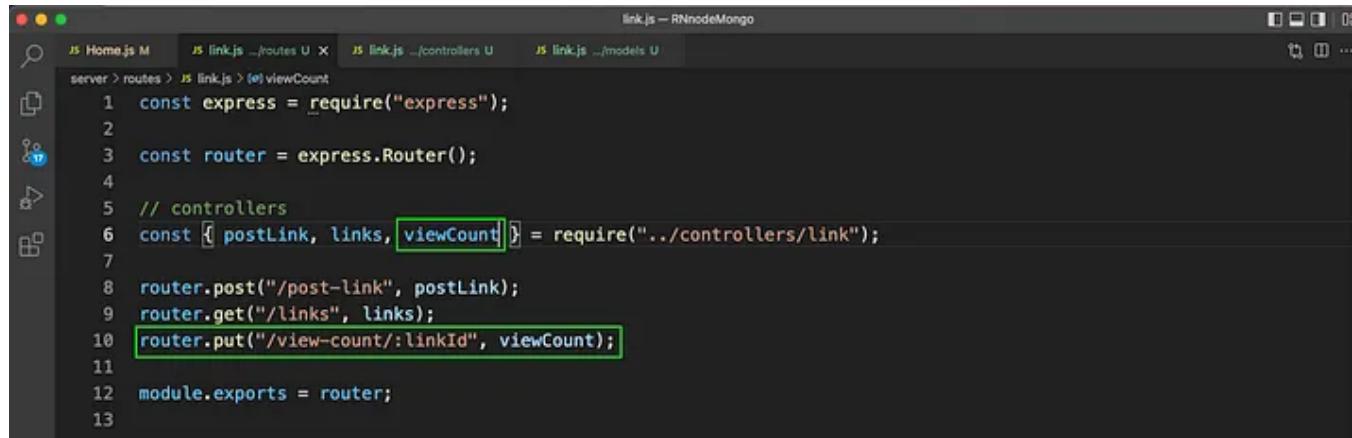




Now, we will implement View Count in our app. Here, we will show the number of times a link was visited. So, in **Home.js** first we will hit a new route view-count with the id.

```
Home.js - RNnodeMongo
client > screens > Home.js > [e] Home > [e] handlePress
  4 import { LinkContext } from '../context/link';
  5 import axios from "axios";
  6
  7 const Home = ({ navigation }) => {
  8   const [links, setLinks] = useContext(LinkContext);
  9
 10  useEffect(() => {
 11    fetchLinks();
 12  }, []);
 13
 14  const fetchLinks = async () => {
 15    const { data } = await axios.get("http://localhost:8000/api/links");
 16    setLinks(data);
 17  };
 18
 19  const handlePress = (link) => {
 20    await axios.put(`http://localhost:8000/api/view-count/${link._id}`);
 21    navigation.navigate("LinkView", { link });
 22  };
 23
 24  return (
 25    <SafeAreaView style={styles.container}>
 26      <Text style={styles.mainText}>Recent Links</Text>
 27      <ScrollView showsVerticalScrollIndicator={false}>
 28        {links && links.map(item => (
 29          <View key={item._id} style={{ alignItems: "center" }}>
 30            <Text style={styles.linkText}>{item.url}</Text>
 31            <Text style={styles.linkText}>{item.title}</Text>
 32            <Text style={styles.linkText}>{item.views}</Text>
 33          </View>
 34        ))
 35      </ScrollView>
 36    </SafeAreaView>
 37  );
}
```

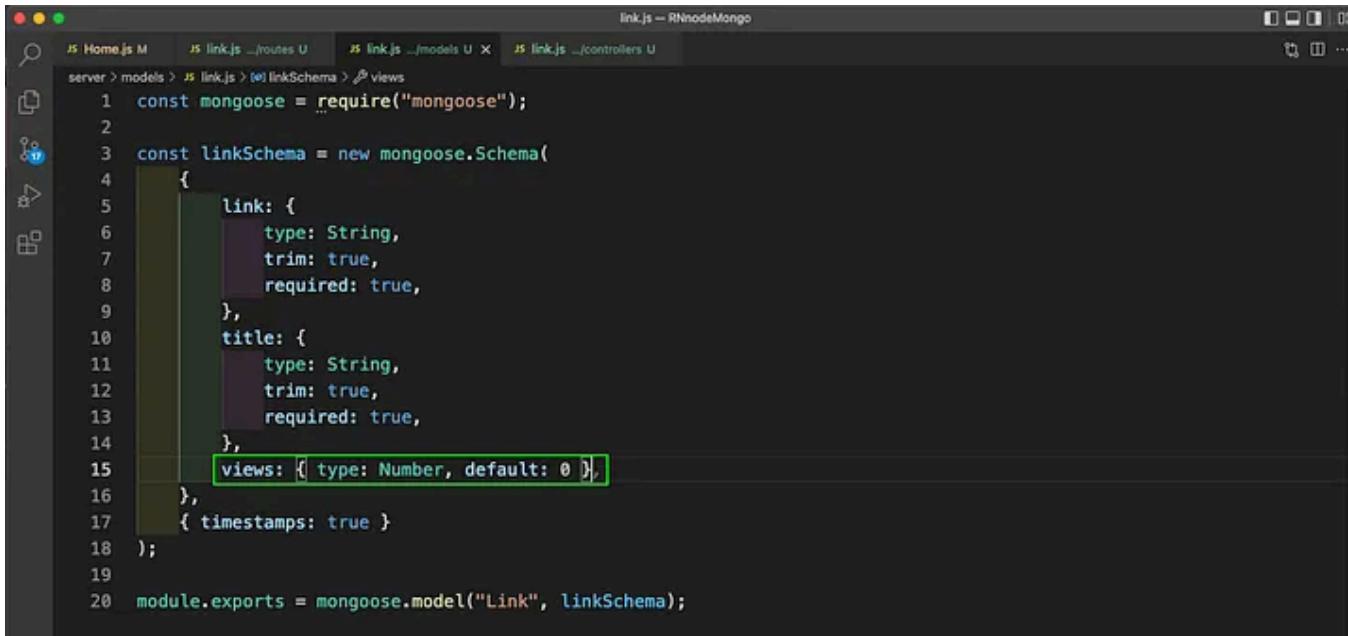
After that in the server -> routes -> **link.js** we will put the new route, which will call the function `viewCount`.



```
JS Home.js M JS link.js .../routes U JS link.js .../controllers U JS link.js .../models U
server > routes > JS link.js > (6) viewCount
1  const express = require("express");
2
3  const router = express.Router();
4
5  // controllers
6  const [postLink, links, viewCount] = require("../controllers/link");
7
8  router.post("/post-link", postLink);
9  router.get("/links", links);
10 router.put("/view-count/:linkId", viewCount);
11
12 module.exports = router;
13
```

link.js

We also need to add this in the server -> models -> **link.js** file.



```
link.js - RNnodeMongo
JS Home.js M JS link.js .../routes U JS link.js .../models U X JS link.js .../controllers U
server > models > # link.js > (el) linkSchema > ↗ views
1  const mongoose = require("mongoose");
2
3  const linkSchema = new mongoose.Schema(
4      {
5          link: {
6              type: String,
7              trim: true,
8              required: true,
9          },
10         title: {
11             type: String,
12             trim: true,
13             required: true,
14         },
15         views: { type: Number, default: 0 },
16     },
17     { timestamps: true }
18 );
19
20 module.exports = mongoose.model("Link", linkSchema);
```

link.js

Now, we will add the viewCount function in the server -> controllers -> **link.js** file.

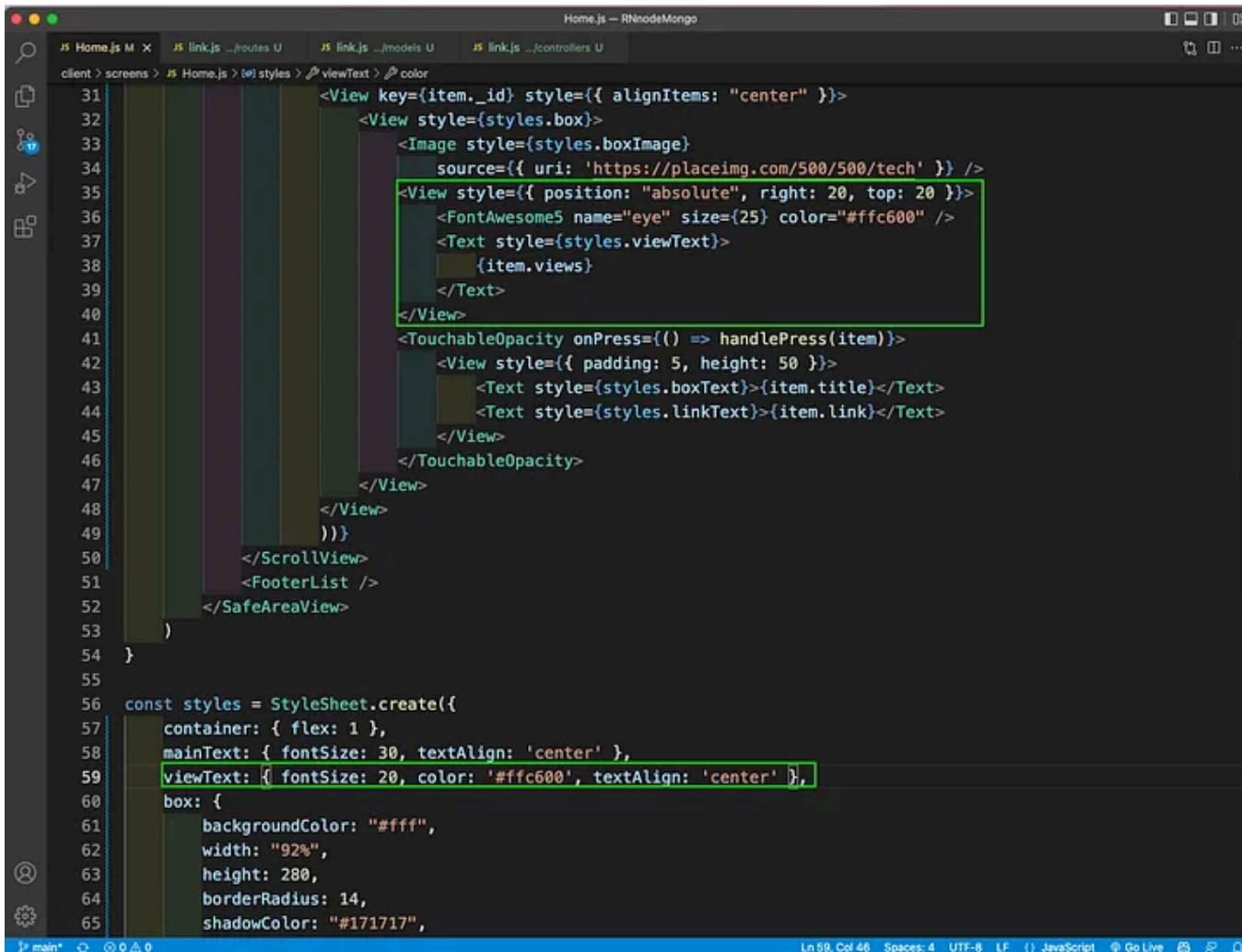
Here, we are updating the views with 1.

```
link.js — RNnodeMongo
JS Home.js M JS link.js .../routes U JS link.js .../models U JS link.js .../controllers U X
server > controllers > JS link.js > viewCount > viewCount
12
13  exports.links = async (req, res) => {
14    try {
15      const all = await Link.find().sort({ createdAt: -1 }).limit(500);
16      res.json(all);
17    } catch (err) {
18      console.log(err);
19    }
20  };
21
22  exports.viewCount = async (req, res) => {
23    try {
24      const link = await Link.findByIdAndUpdate(
25        req.params.linkId,
26        { $inc: { views: 1 } },
27        { new: true }
28      );
29      res.json({ ok: true });
30    } catch (err) {
31      console.log(err);
32    }
33  };

```

link.js

Now, we will show this new views in **Home.js** file. Here, we are using position to move it at the top of the image.

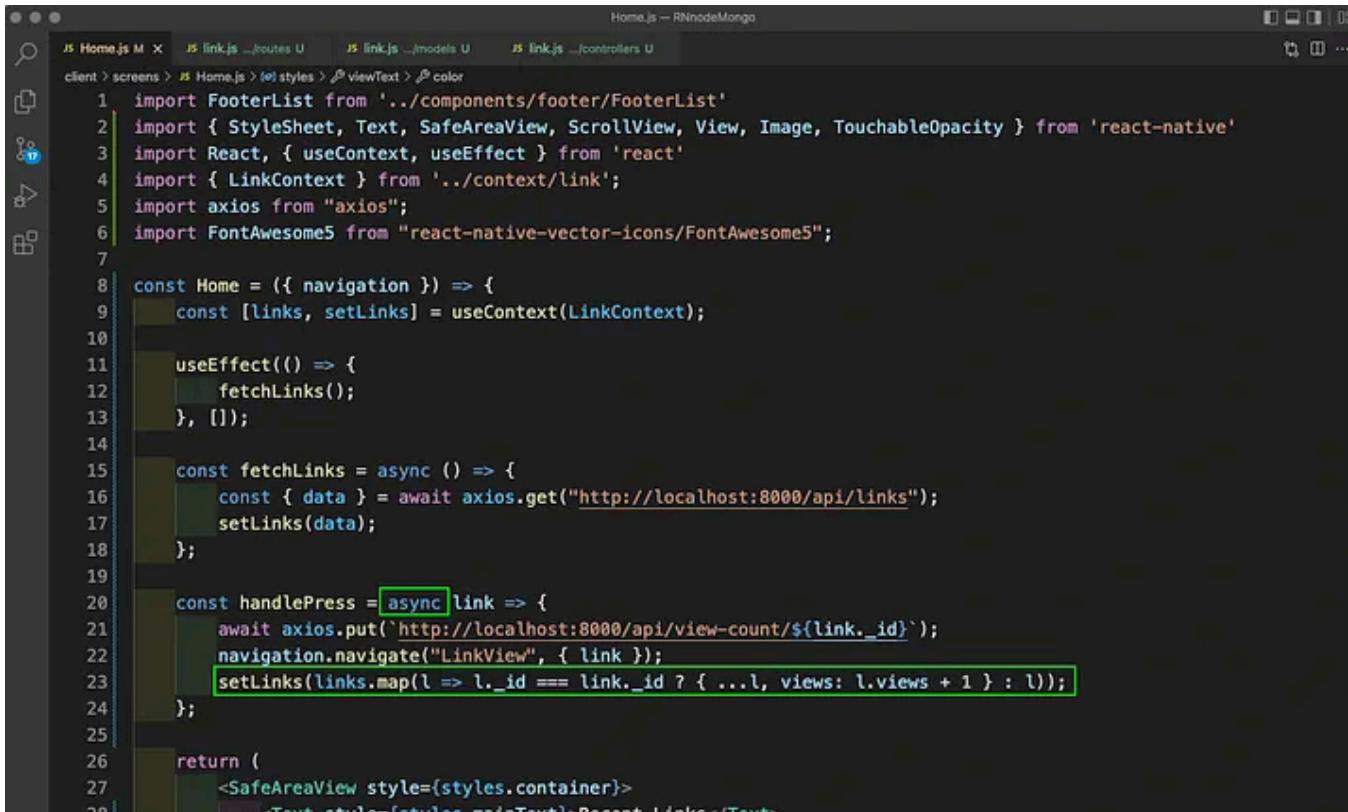


```
Home.js — RNNodeMongo
JS Home.js M JS link.js .../routes U JS link.js .../models U JS link.js .../controllers U
client > screens > JS Home.js > (6) styles > JS viewText > JS color
31   32   33   34   35   36   37   38   39   40
31     <View key={item._id} style={{ alignItems: "center" }}>
32       <View style={styles.box}>
33         <Image style={styles.boxImage}>
34           source={{ uri: 'https://placeimg.com/500/500/tech' }} />
35         <View style={{ position: "absolute", right: 20, top: 20 }}>
36           <FontAwesome5 name="eye" size={25} color="#ffc600" />
37           <Text style={styles.viewText}>
38             {item.views}
39           </Text>
40         </View>
41       <TouchableOpacity onPress={() => handlePress(item)}>
42         <View style={{ padding: 5, height: 50 }}>
43           <Text style={styles.boxText}>{item.title}</Text>
44           <Text style={styles.linkText}>{item.link}</Text>
45         </View>
46       </TouchableOpacity>
47     </View>
48   </View>
49 >)
50 </ScrollView>
51 <FooterList />
52 </SafeAreaView>
53 )
54 }
55
56 const styles = StyleSheet.create({
57   container: { flex: 1 },
58   mainText: { fontSize: 30, textAlign: 'center' },
59   viewText: { fontSize: 20, color: '#ffc600', textAlign: 'center' },
60   box: {
61     backgroundColor: "#fff",
62     width: "92%",
63     height: 280,
64     borderRadius: 14,
65     shadowColor: "#171717",

```

Home.js

Next, we are also setting it in the context, by adding it in the setLinks. Here, we are mapping through all the links to get the specified link.

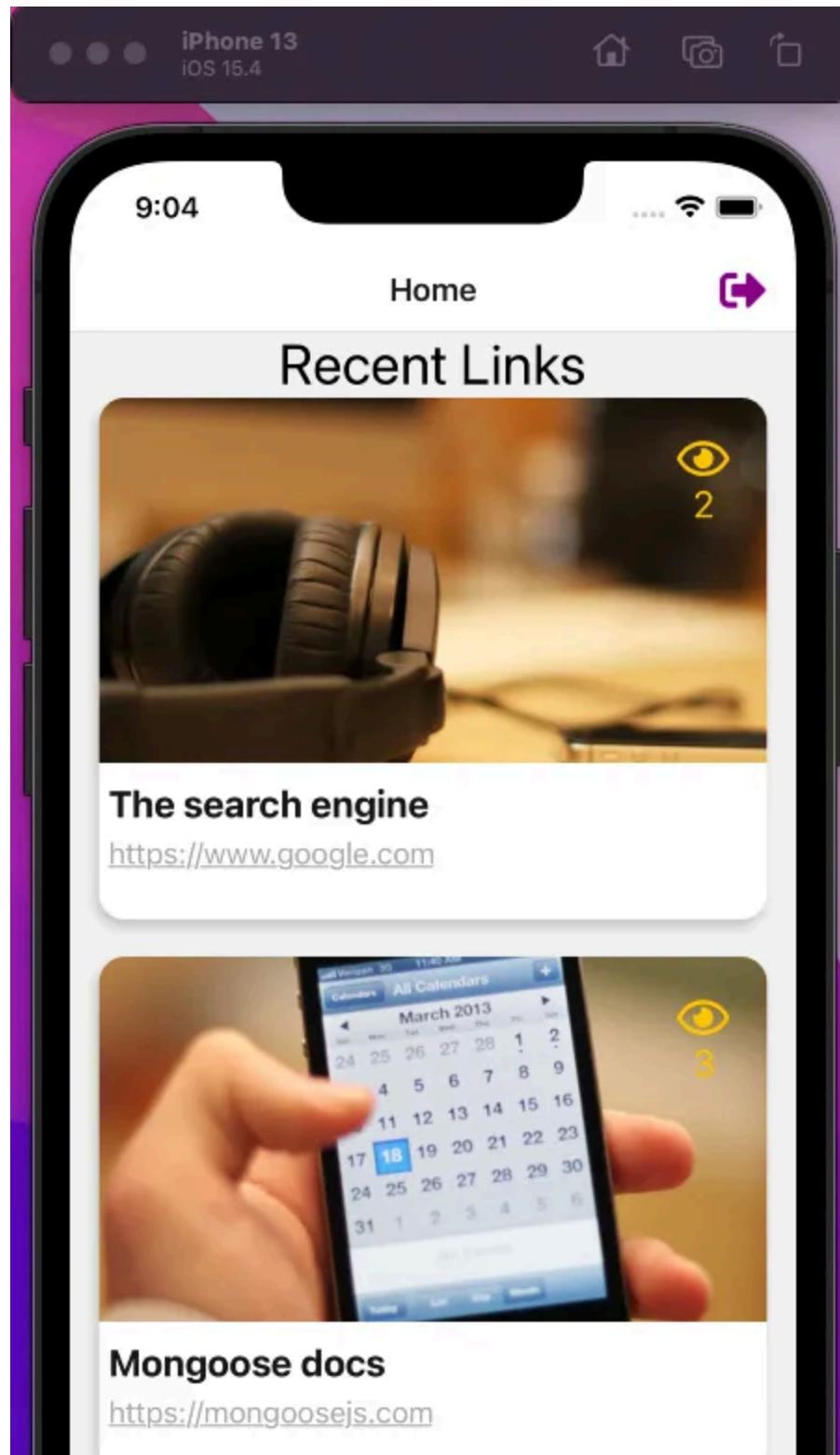


The screenshot shows a code editor window with the title "Home.js – RNnodeMongo". The file "Home.js" is open, displaying the following code:

```
1 import FooterList from '../components/footer/FooterList'
2 import { StyleSheet, Text, SafeAreaView, ScrollView, View, Image, TouchableOpacity } from 'react-native'
3 import React, { useContext, useEffect } from 'react'
4 import { LinkContext } from '../context/link';
5 import axios from "axios";
6 import FontAwesome5 from "react-native-vector-icons/FontAwesome5";
7
8 const Home = ({ navigation }) => {
9   const [links, setLinks] = useContext(LinkContext);
10
11   useEffect(() => {
12     fetchLinks();
13   }, []);
14
15   const fetchLinks = async () => {
16     const { data } = await axios.get("http://localhost:8000/api/links");
17     setLinks(data);
18   };
19
20   const handlePress = async link => {
21     await axios.put(`http://localhost:8000/api/view-count/${link._id}`);
22     navigation.navigate("LinkView", { link });
23     setLinks(links.map(l => l._id === link._id ? { ...l, views: l.views + 1 } : l));
24   };
25
26   return (
27     <SafeAreaView style={styles.container}>
28       <Text style={styles.mainText}>Recent Links</Text>
```

Home.js

Now, we will see the views in each link which will be updated if we visit it.



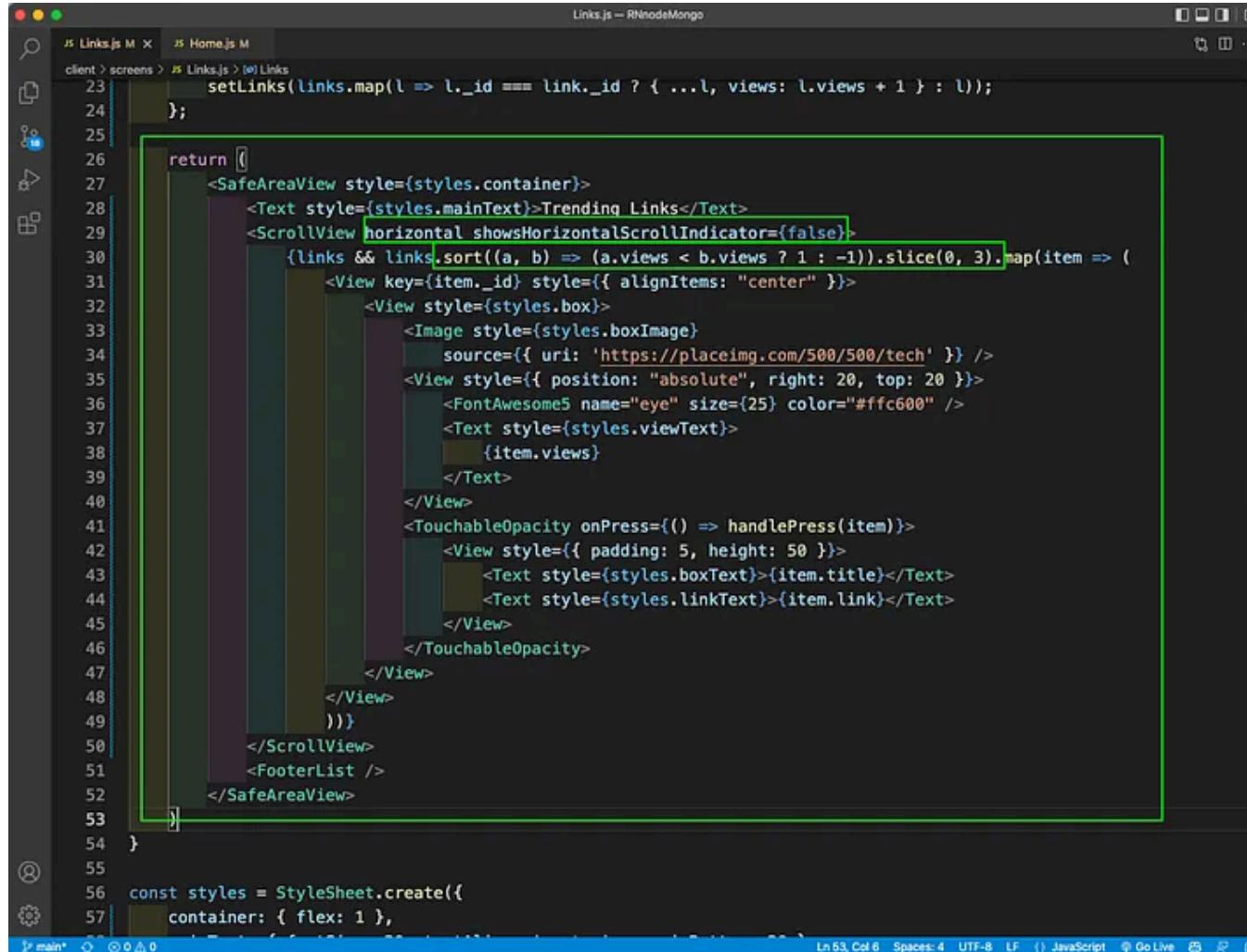


Finally, we will update our `Links.js` file. It will be exactly as the `Home.js` file. So, we are first doing the imports and writing the functions.

```
JS Links.js M X # Home.js M
client > screens > JS Links.js > (e) Links
Links.js - RNnodeMongo
1 import FooterList from '../components/footer/FooterList'
2 import { StyleSheet, Text, SafeAreaView, ScrollView, View, Image, TouchableOpacity } from 'react-native'
3 import React, { useContext, useEffect } from 'react'
4 import { LinkContext } from '../context/link';
5 import axios from "axios";
6 import FontAwesome5 from "react-native-vector-icons/FontAwesome5";
7
8 const Links = ({ navigation }) => {
9   const [links, setLinks] = useContext(LinkContext);
10
11   useEffect(() => {
12     fetchLinks();
13   }, []);
14
15   const fetchLinks = async () => {
16     const { data } = await axios.get("http://localhost:8000/api/links");
17     setLinks(data);
18   };
19
20   const handlePress = async link => {
21     await axios.put(`http://localhost:8000/api/view-count/${link._id}`);
22     navigation.navigate("LinkView", { link });
23     setLinks(links.map(l => l._id === link._id ? { ...l, views: l.views + 1 } : l));
24   };
25
26   return [
27     <SafeAreaView style={styles.container}>
```

Links.js

Our return part also contains similar code to Home.js file. The differences are that we are showing a horizontal scroll. And we are also showing the most popular views and only the last three.



```
JS Links.js M JS Home.js M
client > screens > Links.js > [x] Links
      setLinks(links.map(l => l._id === link._id ? { ...l, views: l.views + 1 } : l));
    };

  return [
    <SafeAreaView style={styles.container}>
      <Text style={styles.mainText}>Trending Links</Text>
      <ScrollView horizontal showsHorizontalScrollIndicator={false}>
        {links && links.sort((a, b) => (a.views < b.views ? 1 : -1)).slice(0, 3).map(item => (
          <View key={item._id} style={{ alignItems: "center" }}>
            <View style={styles.box}>
              <Image style={styles.boxImage}
                source={{ uri: 'https://placeimg.com/500/500/tech' }} />
              <View style={{ position: "absolute", right: 20, top: 20 }}>
                <FontAwesome5 name="eye" size={25} color="#ffc600" />
              <Text style={styles.viewText}>
                {item.views}
              </Text>
            </View>
            <TouchableOpacity onPress={() => handlePress(item)}>
              <View style={{ padding: 5, height: 50 }}>
                <Text style={styles.boxText}>{item.title}</Text>
                <Text style={styles.linkText}>{item.link}</Text>
              </View>
            </TouchableOpacity>
          </View>
        )));
      </ScrollView>
      <FooterList />
    </SafeAreaView>
  ];
}

const styles = StyleSheet.create({
  container: { flex: 1 },
  mainText: { ... },
  box: { ... },
  boxImage: { ... },
  viewText: { ... },
  boxText: { ... },
  linkText: { ... },
});
```

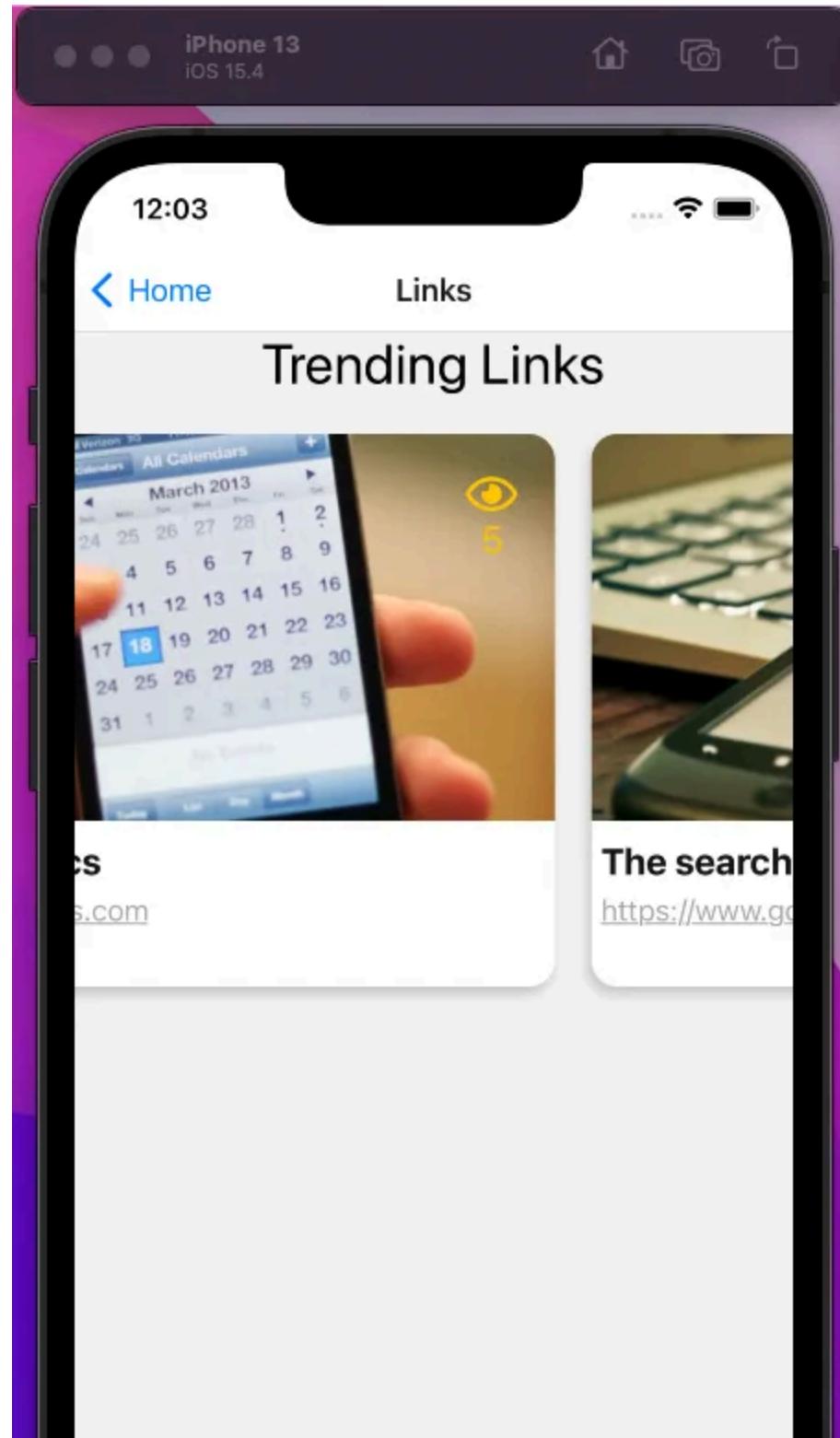
Links.js

The styles in the `Links.js` file is also quite similar to `Home.js` file.

```
Links.js — RNnodeMongo
JS Links.js M JS Home.js M
client > screens > JS Links.js > (e) Links
51   <FooterList />
52   </SafeAreaView>
53 }
54 }
55
56 const styles = StyleSheet.create({
57   container: { flex: 1 },
58   mainText: { fontSize: 30, textAlign: 'center', marginBottom: 20 },
59   viewText: { fontSize: 20, color: '#ffc600', textAlign: 'center' },
60   box: { backgroundColor: "#fff", width: 400, height: 300, borderRadius: 14, shadowColor: "#171717",
61         shadowOffset: { width: -2, height: 4 }, shadowOpacity: 0.2, shadowRadius: 3, marginRight: 20 },
62   boxImage: { height: "70%", width: "100%", borderTopRightRadius: 14, borderTopLeftRadius: 14 },
63   boxText: { paddingTop: 5, paddingBottom: 5, fontSize: 20, fontWeight: "bold", color: "#171717" },
64   linkText: { fontSize: 16, color: "darkgray", textDecorationLine: "underline" },
65 }
66
67 export default Links
```

Links.js

Now, when we click on the Links component, we see a beautiful horizontal scroll.





This completes our long React Native major project. Hoping you liked it.

React Native

React Native Development

React Native Developers

React Native App

React Native Application



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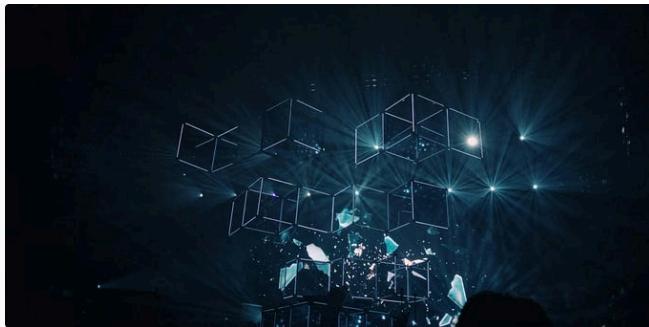
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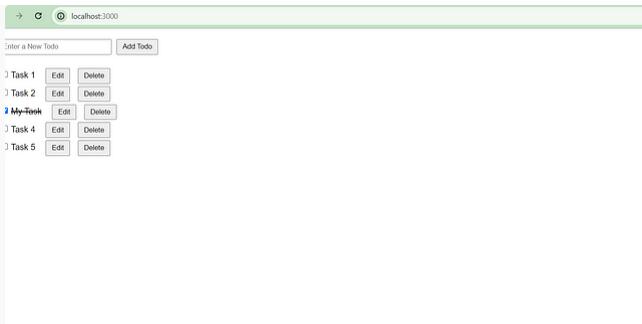
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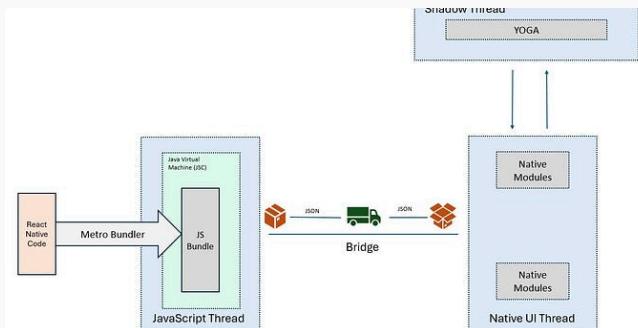
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