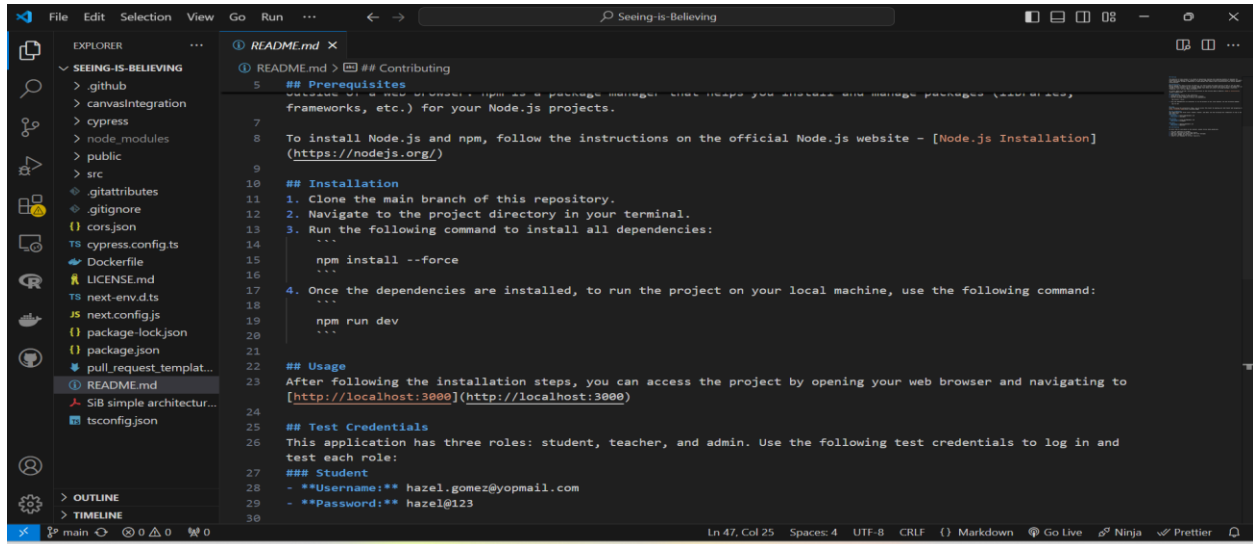


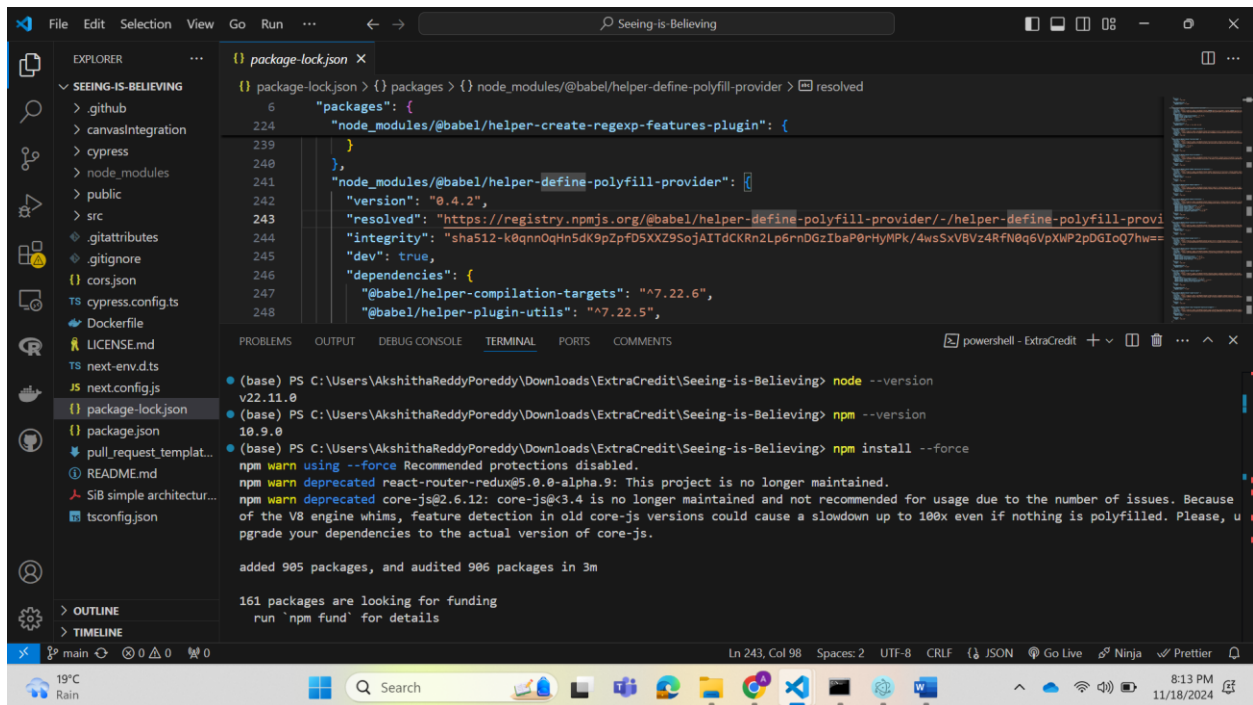
# Report on Extra Credit Assignment

- 1) Fork the Repository
- 2) Clone the Repository
- 3) Follow the instructions as given on readme file



The screenshot shows the Visual Studio Code interface with the 'Seeing-is-Believing' repository open. The Explorer panel on the left shows the file structure, including .github, canvasIntegration, cypress, node\_modules, public, src, gitattributes, .gitignore, cors.json, cypress.config.ts, Dockerfile, LICENSE.md, next-env.d.ts, next.config.js, package-lock.json, package.json, pull\_request\_template.md, README.md, SIB simple architecture..., and tsconfig.json. The README.md file is open in the main editor, displaying the following content:

```
1  ## Prerequisites
2  (https://nodejs.org/) for your Node.js projects.
3
4  To install Node.js and npm, follow the instructions on the official Node.js website - [Node.js Installation]
5  (https://nodejs.org/)
6
7  ## Installation
8  1. Clone the main branch of this repository.
9  2. Navigate to the project directory in your terminal.
10 3. Run the following command to install all dependencies:
11    ---
12    npm install --force
13    ---
14 4. Once the dependencies are installed, to run the project on your local machine, use the following command:
15    ---
16    npm run dev
17    ---
18
19 ## Usage
20 After following the installation steps, you can access the project by opening your web browser and navigating to
21 [http://localhost:3000](http://localhost:3000)
22
23 ## Test Credentials
24 This application has three roles: student, teacher, and admin. Use the following test credentials to log in and
25 test each role:
26
27 ### Student
28 - **Username:** hazel.gomez@yopmail.com
29 - **Password:** hazel@123
```



The screenshot shows the Visual Studio Code interface with the 'Seeing-is-Believing' repository open. The Explorer panel on the left shows the file structure, including .github, canvasIntegration, cypress, node\_modules, public, src, gitattributes, .gitignore, cors.json, cypress.config.ts, Dockerfile, LICENSE.md, next-env.d.ts, next.config.js, package-lock.json, package.json, pull\_request\_template.md, README.md, SIB simple architecture..., and tsconfig.json. The package-lock.json file is open in the main editor, displaying the following content:

```
1  {} package-lock.json > {} packages > {} node_modules/@babel/helper-define-polyfill-provider > resolved
2  6 "packages": {}
3  224 "node_modules/@babel/helper-create-regexp-features-plugin": {}
4  239 {}
5  240 },
6  241 "node_modules/@babel/helper-define-polyfill-provider": {}
7  242 "version": "0.4.2",
8  243 "resolved": "https://registry.npmjs.org/@babel/helper-define-polyfill-provider/-/helper-define-polyfill-provi
9  244 "integrity": "sha512-k0qnn0q4m5dK9pZpD5XXZ9SojAITdCKRn2Lp6rNDGzIbaP0rHyMPk/4wsSxVBVz4RfN0q6VpXNP2p0G1oQ7hw==
10 245 "dev": true,
11 246 "dependencies": {}
12 247 "@babel/helper-compilation-targets": "^7.22.6",
13 248 "@babel/helper-plugin-utils": "^7.22.5",
```

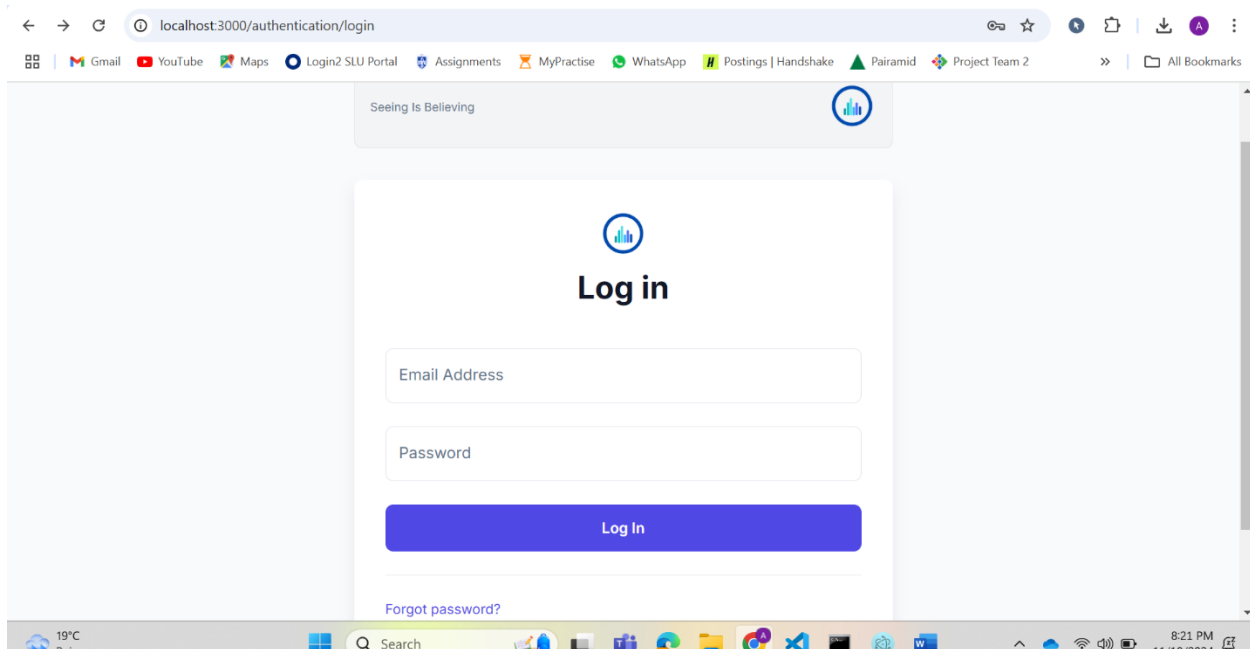
The terminal panel at the bottom shows the output of the following commands:

```
(base) PS C:\Users\AkshithaReddyPoreddy\Downloads\ExtraCredit\Seeing-is-Believing> node --version
v22.11.0
(base) PS C:\Users\AkshithaReddyPoreddy\Downloads\ExtraCredit\Seeing-is-Believing> npm --version
10.9.0
(base) PS C:\Users\AkshithaReddyPoreddy\Downloads\ExtraCredit\Seeing-is-Believing> npm install --force
npm warn using --force Recommended protections disabled.
npm warn deprecated react-router-redux@5.0.0-alpha.9: This project is no longer maintained.
npm warn deprecated core-js@2.6.12: core-js@3.4 is no longer maintained and not recommended for usage due to the number of issues. Because
of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Please, u
pgrade your dependencies to the actual version of core-js.

added 905 packages, and audited 906 packages in 3m

161 packages are looking for funding
  run 'npm fund' for details
```

- 4) Install npm on your system and start the npm
- 5) run the dev environment



-A Next.js application is organized to facilitate both server-side rendering and static site generation, making it highly efficient for modern web development. At the core, the application structure revolves around the pages directory, which automatically maps files to routes in the web application. For instance, pages/index.js serves as the homepage, while files in the pages/api directory define API endpoints. The pages/\_app.js file acts as a custom App component, useful for maintaining global state, injecting global styles, or applying common layouts across different pages.

-For modularity and reusability, the components directory houses React components that can be used throughout the application. Configuration settings and environment variables are managed via next.config.js and .env.local files, respectively, enabling customization of the build process and secure handling of sensitive data.

6) Create the React Native Project Separately

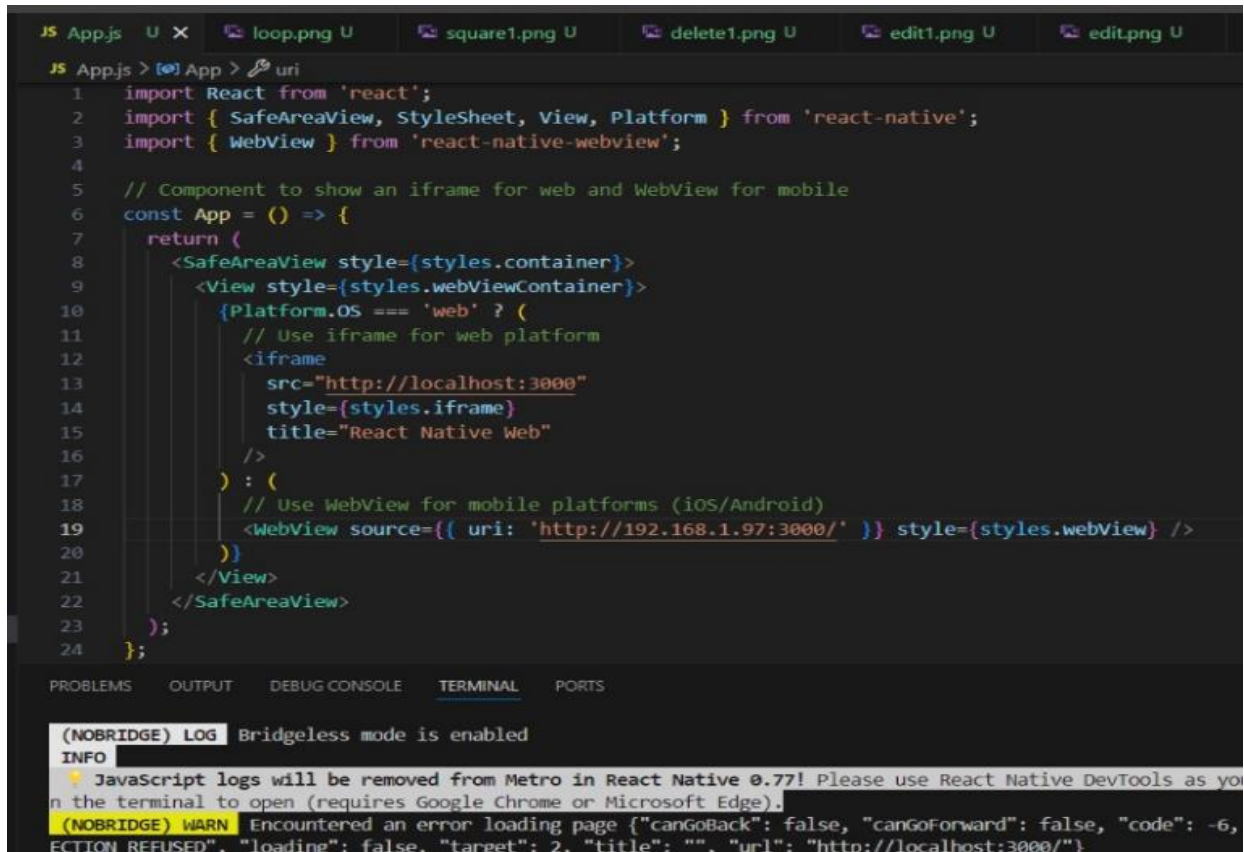
7) Modify the App.js file to create connection between the react native to run application on device and next js application.

8) To connect a Next.js application with a React Native app using a local server, you start by running the Next.js server on your local machine, typically accessible at <http://localhost:3000>. Next, you identify your machine's local IP address using system commands like ipconfig on windows.

9) With the local IP address, you update the React Native application's WebView component to load the Next.js app by replacing localhost with your machine's IP address, such as <http://192.168.x.x:3000>. Finally, you run the React Native app on an emulator or physical device

using `npx react-native run-android`, allowing the mobile app to display the Next.js application hosted on your local server.

10) This setup leverages the `WebView` component to render the web content within the native mobile environment, facilitating a seamless integration between the web and mobile platforms.



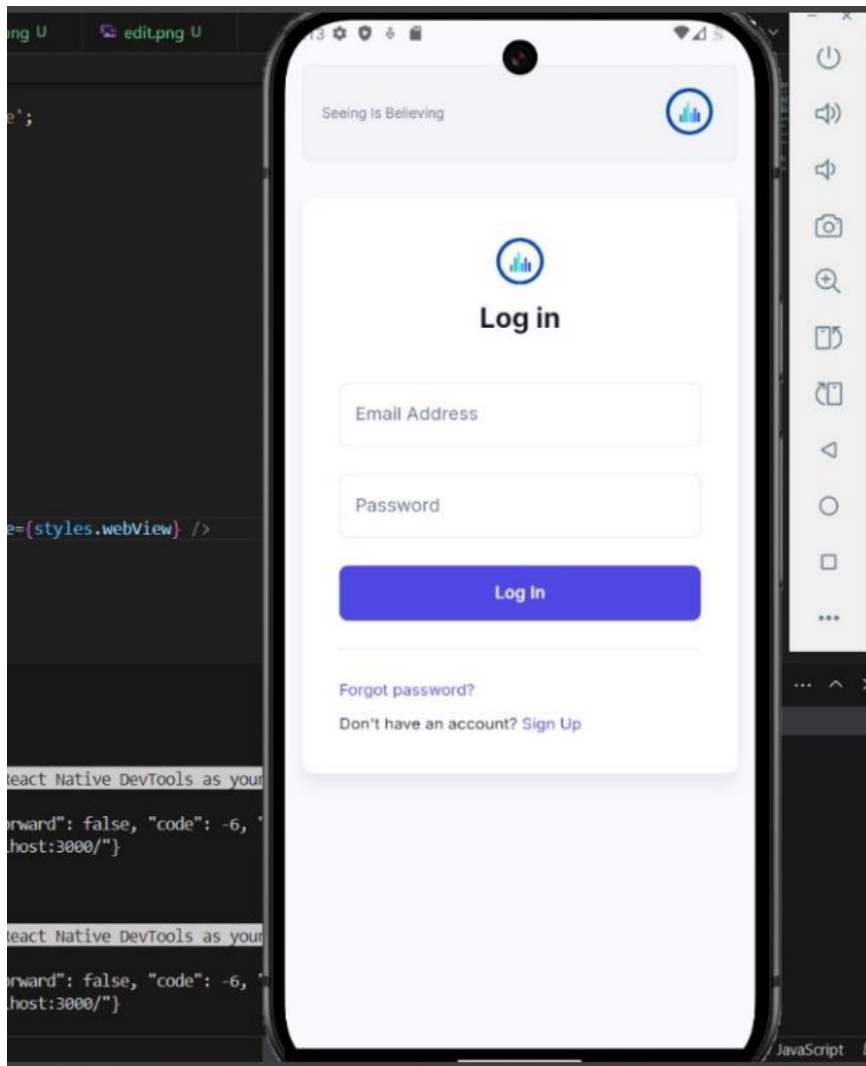
The screenshot shows an IDE with a code editor and a terminal. The code editor displays a JavaScript file named `App.js` with the following content:

```
1 import React from 'react';
2 import { SafeAreaView, StyleSheet, View, Platform } from 'react-native';
3 import { WebView } from 'react-native-webview';
4
5 // Component to show an iframe for web and WebView for mobile
6 const App = () => {
7   return (
8     <SafeAreaView style={styles.container}>
9       <View style={styles.webViewContainer}>
10        {Platform.OS === 'web' ? (
11          // Use iframe for web platform
12          <iframe
13            src="http://localhost:3000"
14            style={styles.iframe}
15            title="React Native Web"
16          />
17        ) : (
18          // Use WebView for mobile platforms (iOS/Android)
19          <WebView source={{ uri: 'http://192.168.1.97:3000/' }} style={styles.webView} />
20        )}
21      </View>
22    </SafeAreaView>
23  );
24};
```

The terminal output shows the following messages:

```
(NOBRIDGE) LOG Bridgeless mode is enabled
INFO
JavaScript logs will be removed from Metro in React Native 0.77! Please use React Native DevTools as you
n the terminal to open (requires Google Chrome or Microsoft Edge).
(NOBRIDGE) WARN Encountered an error loading page {"canGoBack": false, "canGoForward": false, "code": -6,
ECTION REFUSED", "loading": false, "target": 2, "title": "", "url": "http://localhost:3000/"}
```

-When the emulator is running the react native application, type the local host address in the web browser of emulator then it displays the authentication page.



-The point to be added is there is process.env file in the folder which is missing, it does contain the secure API Key which can run the whole application, so because of that the login details were not working to go inside the website.

-Finally, I have done the extra credit assignment as much as possible because the code cloned from github also has many errors which took time to solve and run the mobile application.

Git hub Link:

Seeing-Is-Believing: <https://github.com/PoreddyAkshitha/Seeing-is-Believing>

React Native Application: <https://github.com/PoreddyAkshitha/React-Native-Application-for-SiB>

Pull Request also submitted.