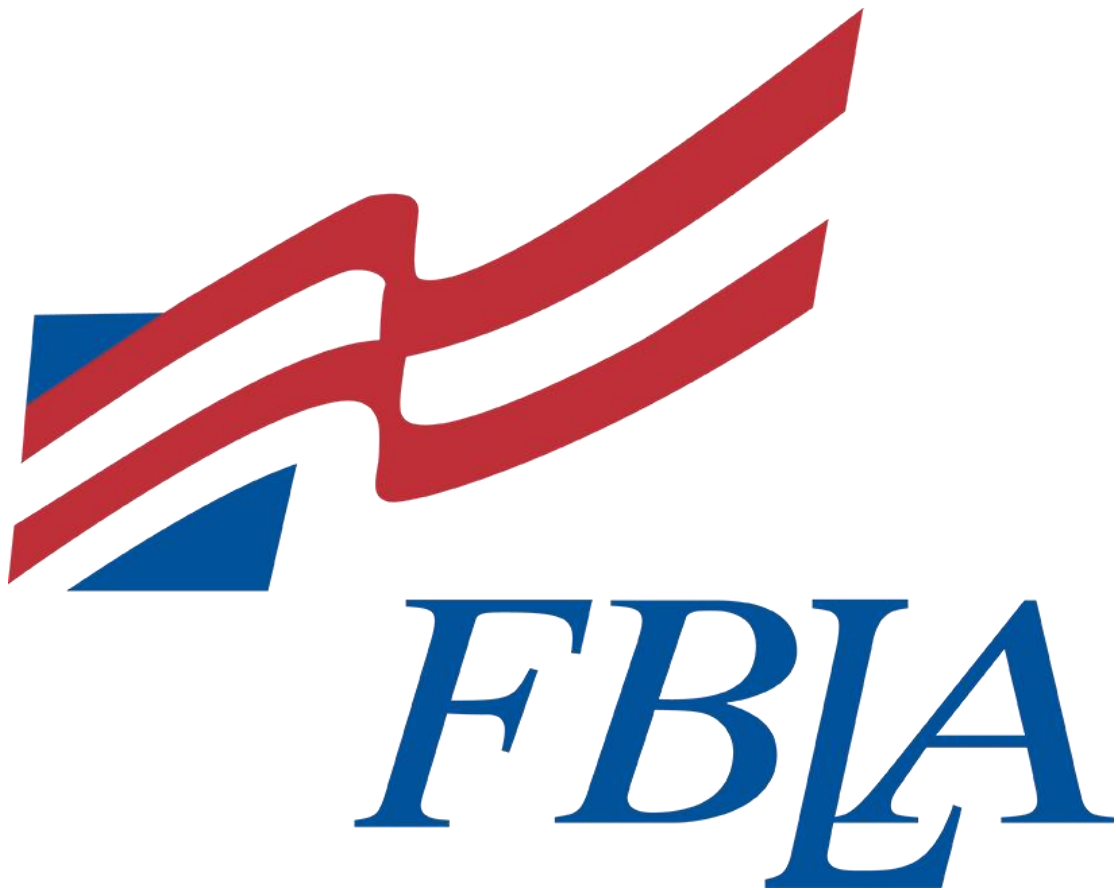


Tomely Source Code Structure



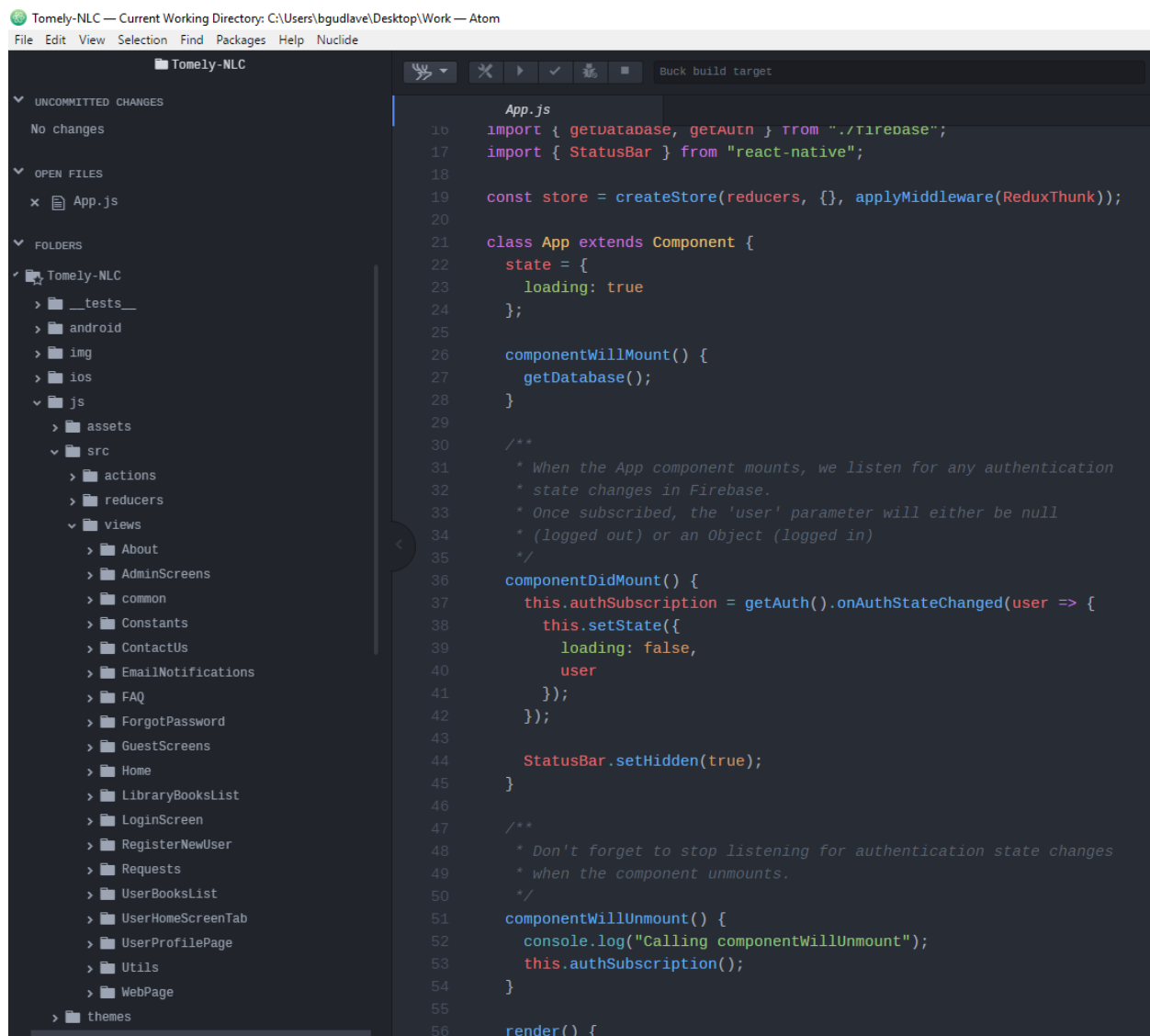
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FBLA 2017 -2018 Mobile Application Development (NLC Submission)

Tomely Source Code Structure

This document provides brief description of the source code structure and how each file is related to the Tomely mobile app. For easier maintenance of the source code and simplify future enhancements, the team followed a coding structure by breaking the code according to the different components of the application. For example, the Login functionality is created as a component LoginScreen and its specific code resides in the LoginScreen folder under the views. All the styles related to a screen are maintained in the **styles.js** within the specific folder.

Below is a screenshot of the Tomely source code opened in Atom IDE:



```
Tomely-NLC — Current Working Directory: C:\Users\bgudlave\Desktop\Work — Atom
File Edit View Selection Find Packages Help Nuclide

Tomely-NLC
UNCOMMITTED CHANGES
No changes
OPEN FILES
App.js
FOLDERS
Tomely-NLC
  __tests__
  android
  img
  ios
  js
    assets
    src
      actions
      reducers
      views
        About
        AdminScreens
        common
        Constants
        ContactUs
        EmailNotifications
        FAQ
        ForgotPassword
        GuestScreens
        Home
        LibraryBooksList
        LoginScreen
        RegisterNewUser
        Requests
        UserBooksList
        UserHomeScreenTab
        UserProfilePage
        Utils
        WebPage
    themes

App.js
16 import { getDatabase, getAuth } from "../firebase";
17 import { StatusBar } from "react-native";
18
19 const store = createStore(reducers, {}, applyMiddleware(ReduxThunk));
20
21 class App extends Component {
22   state = {
23     loading: true
24   };
25
26   componentWillMount() {
27     getDatabase();
28   }
29
30   /**
31    * When the App component mounts, we listen for any authentication
32    * state changes in Firebase.
33    * Once subscribed, the 'user' parameter will either be null
34    * (logged out) or an Object (logged in)
35    */
36   componentDidMount() {
37     this.authSubscription = getAuth().onAuthStateChanged(user => {
38       this.setState({
39         loading: false,
40         user
41       });
42     });
43
44     StatusBar.setHidden(true);
45   }
46
47   /**
48    * Don't forget to stop listening for authentication state changes
49    * when the component unmounts.
50    */
51   componentWillUnmount() {
52     console.log("Calling componentWillUnmount");
53     this.authSubscription();
54   }
55
56   render() {
```

Details of the Source code structure

Tomely/	→ Application folder created using react-native init
img/	→ Folder for storing icons, logo, background images, map images etc
index.android.js	→ Starting file for react-native to launch the application and points to js/App.js
js/	
App.js	→ Application startup file. This is also the point where in Tomely initializes its database connection with google-firebase.
AppNavigator.js	→ Code that handles the screen navigation and points to Home/index.js as the startup page.
src/	
actions/	→ All firebase database Add/Mod/Delete functions
reducers/	→ Firebase database reducer functions
views/	→ All the individual components are created under this folder.
./About:	→ About Us page
index.js	
styles.js	
./AdminScreens:	→ All the functionality/features of Admin
AddBooksFormData.js	
AddUserFormData.js	
UserBooksActivity.js	
UserProfileDetails.js	
UserProfileDetailsEdit.js	
addBooks.js	
addUsers.js	
index.js	
listBooks.js	
listUsers.js	
manageBooksTab.js	
manageUsersTab.js	
requestsTab.js	
styles.js	
./common:	→ Common functionality displayed in Home Page Carousel View

BooksCarousel.style.js
SliderEntry.js
SliderEntry.style.js
./Constants → Constant variables used across the application
constants.js
./ContactUs: → All the functionality/features of Contact Us page
index.js
styles.js

./EmailNotifications → Functionality related to send email notifications when the user checked out a book, reserved a book, checked in a book or a system generated email reminder when a book is due within 7 days or past overdue.

Index.js
./FAQ: → All the functionality/features of FAQ page
index.js
styles.js

./GuestScreens: → All the functionality/features of Guest pages
GuestBookDetails.js
GuestBooksCarousel.js → Carousel view of books placed in different GENRES
GuestBooksLongList.js
SchoolSelector.js
static/ → Static data to be displayed for Guest access
data/
book_reviews_data.js
ghs_book_data.js
mhs_book_data.js
styles.js
utils/

./Home: → All the functionality/features of Home page
index.js
styles.js

./LibraryBooksList: → All the functionality/features to display books under browse tab, view details, view reviews and view book location
bookDetails.js
bookLocator.js
bookReviews.js
booksCarouselView.js
BooksHomePage.js → Main home page for Student/Teacher login
booksLongListView.js → Long list view when "All Books" is clicked
index.js
styles.js

userBookDetails.js

./LoginScreen: → All the functionality/features to Login page which is common for all user account types.

index.js

styles.js

./RegisterNewUser: → All the functionality/features to display Register new user page (Sign up page)

index.js

styles.js

./Requests: → All the functionality/features to displaying the requests submitted by users via the “Contact Us” page.

CompletedRequests.js

NewRequests.js

ReviewedRequests.js

styles.js

./UserBooksList: → All the functionality/features to screens for user login (Student/Teacher accounts)

AddBookReview.js

DaysRemaining.js

UserBorrowedBookList.js

UserReservedBookList.js

styles.js

./UserHomeScreenTab: → The landing page when user (Teacher/Student) logs into Tomely application

index.js

styles.js

UserProfileDetails.js

./UserProfilePage: → The landing page to display the user profile details on the “Me” tab

index.js

styles.js

./Utils: → Some utility database functions used across the application

Index.js

./WebPage: → All the functionality/features to display the Social connect pages like Facebook, Twitter, Instagram and Youtube when user clicks on those icons. Also, the logic to display Amazon Kindle Preview page is handled in this.

index.js

AddSocialIcons.js

Styles.js