React Native Crash Course 2020

Traversy Media

What Is React Native?

React is a JS library/framework for creating Uls

React is agnostic. **React-DOM** is used to render in the browser (Web app)

React Native is a library that can compile react components into native components/widgets

React Native allows us to use React to create native iOS & Android applications

Single Codebase

Usually, an iOS app and Android app are completley separate apps (**Swift** vs **Java/Kotlin**)

With **React Native**, we can create one single codebase and build for both platforms

This saves a TON of time and money



Requirements

Mac - iOS/Android Windows - Android

iOS: Latest Xcode & iOS Simulator

Android: Android Studio / SDK / Emulator (AVD)

Components

React Native includes built in components and APIs

Basic Components: View, Text, Image, TextInput, ScrollView, StyleShee

UI: Button, Picker, Slider, Switch

List Views: FlatList, SectionList

iOS: ActionSheetIOS, AlertIOS, etc

Android: BackHandler, DatePickerAndroid, etc

Step1:

Installing the global cli: npm i -g react-native-cli

Step2:

Setting up the project mkdir traverymediareactnativeproject Cd traverymediareactnativeproject Firing up the project setup: react-native init ShoppingList

Step3:

Downloading the react native project specific libraries: npm i react-native-vector-icons --save

Step3:

Linking react native project specific libraries: react-native link react-native-vector-icons

Step4:

Downloading the react native project specific libraries: npm i uuidv4 --save This package is used for generating id's

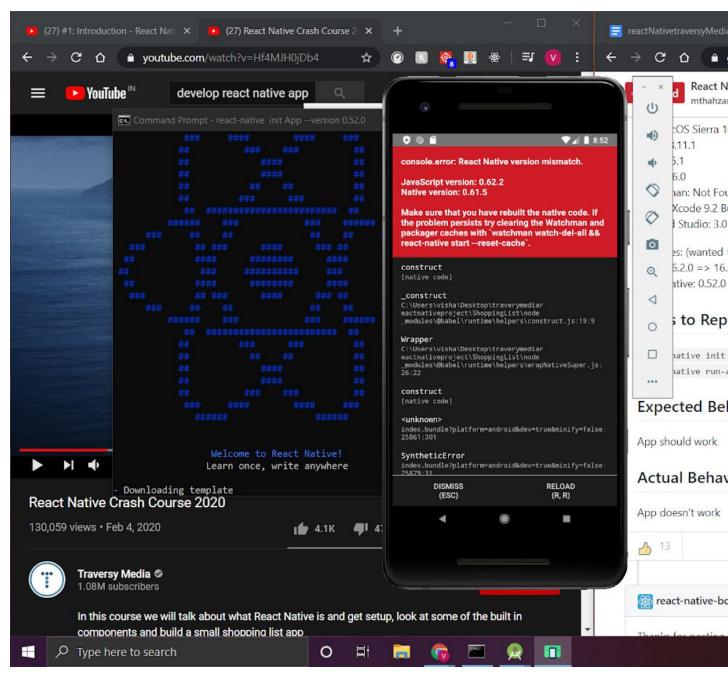
Step5:

Running the project as:

React-native run-android

It opens up the boiler plate for the application and also opens the console with the meter bundler to compile the javascript if any there.

Error logs in step 5:



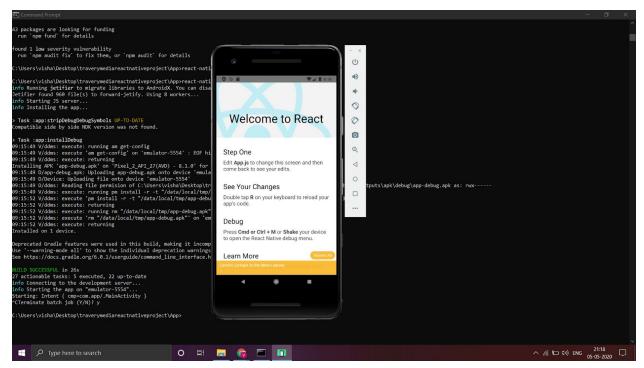
One might faace that error the solution for it is as below: react-native init App --version 0.62.2

Then do

https://stackoverflow.com/questions/52034544/react-native-build-failed

npm install --save

react-native link



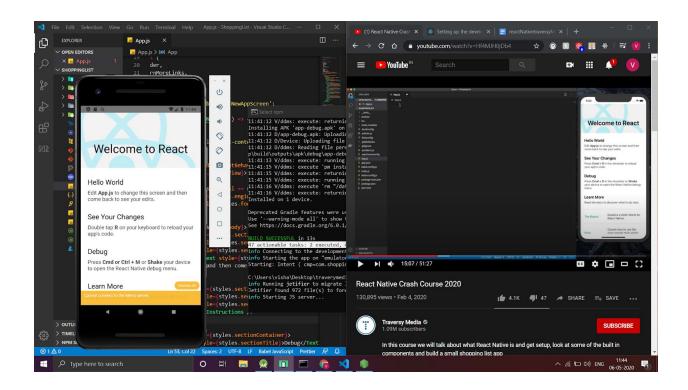
traversy media lot of bugs encountering in the npm package linking

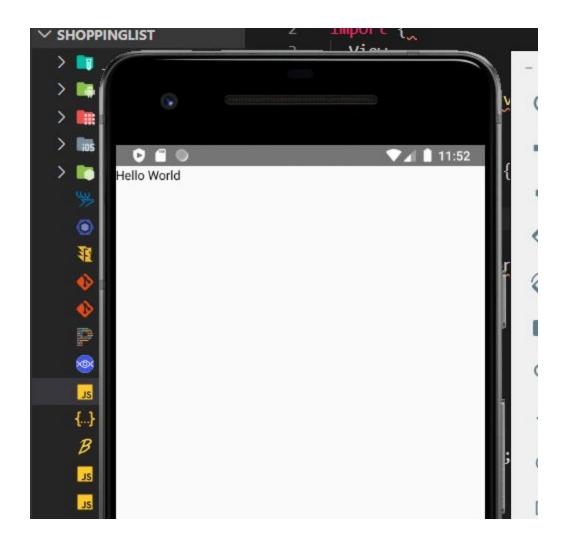
This was because my android studio is downloaded in another directory and it wasnt able to compile the gradle solution do the app build in the android studio itself then run the app using react-native run -android

So now in order to run the code i will first have to compile the code in the android studio. Then i would have to run the react-developmental server.

Step 6:

Changing the react native to show hello world: and wes ee that even the hot reloading now works

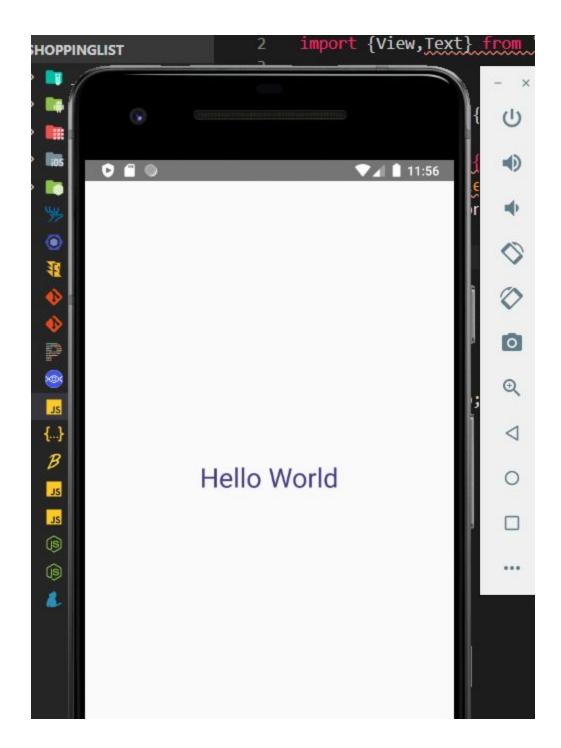




Step 7: After some styling:

Code:

O/p:



Step 8: after adding styles in variable:

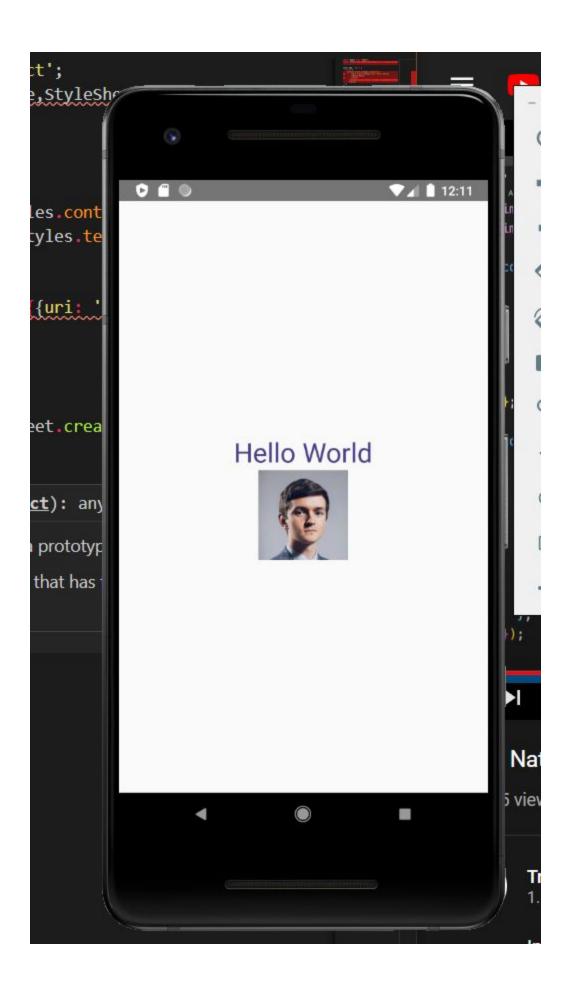
```
App.js > [@] styles
     import React from 'react';
     import {View,Text,StyleSheet} from 'react-native';
                                                            0 0
    const App = () \Rightarrow \{
       <View style={styles.container}>
             <Text style={styles.text} Hello World>
             Hello World
            </Text>
10
           </View>
15
    const styles = StyleSheet.create({
      container:{
                                                                       Hello World
        flex:1,
18
        justifyContent: center',
        alignItems: center'
19
20
      text:{
        color: 'darkslateblue',
         fontSize: 30
24
     2
26
    })
28
     export default App:
```

Loading an image:

Code:

```
</View>
};
const styles = StyleSheet.create({
   flex:1,
   justifyContent:'center',
   alignItems: 'center'
 img:{
   height:100
export default App;
```

o/p:

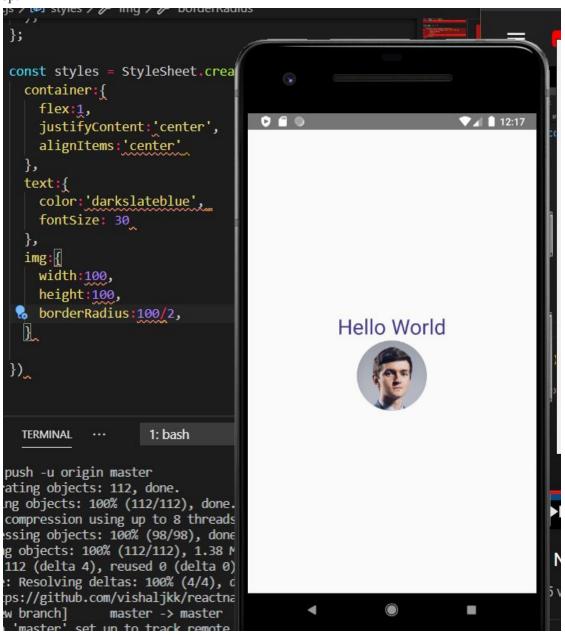


Bodercircle raduis on an image:

Code:

```
img:{
    width:100,
    height:100,
    borderRadius:100/2,
}
```

op:



Step 9: successfully added the header component:

Code:

Header.js

```
import React from 'react';
import {View,Text,StyleSheet} from 'react-native';
const Header = () => {
     <View style={styles.header}>
        <Text style={styles.text} Hello World>
         Hello World
      </View>
const styles = StyleSheet.create({
 header:{
   height:60,
   padding:15,
   backgroundColor:'darkslateblue'
     color:'#fff',
     fontSize:23,
     textAlign:'center'
});
```

App.js:



Step 10:

Then we do passing od props for passing the title for header.

Step 11:

Then we use functional components with hooks.

Step 12:

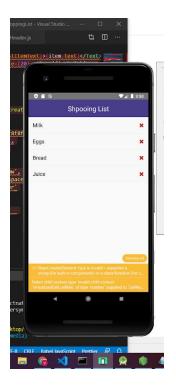
Flat list view for rendereing of items



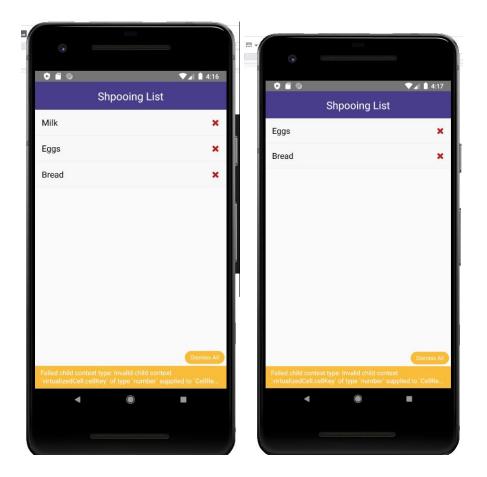
With css item lis viewt:

Code:

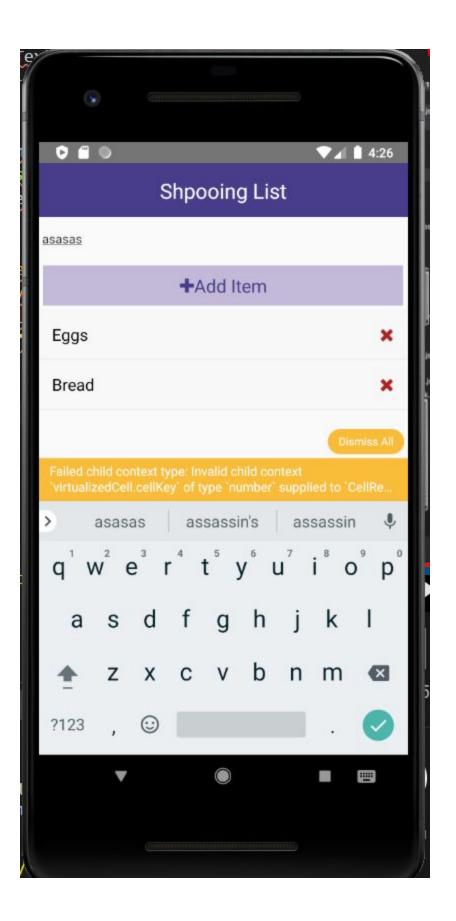
```
borderBottomWidth:1,
   borderColor:'#eee'
},
listItemView:{
    flexDirection:'row',
     justifyContent:'space-between',
     alignItems:'center'
},
listItemText:{
    fontSize: 18,
}
});
```



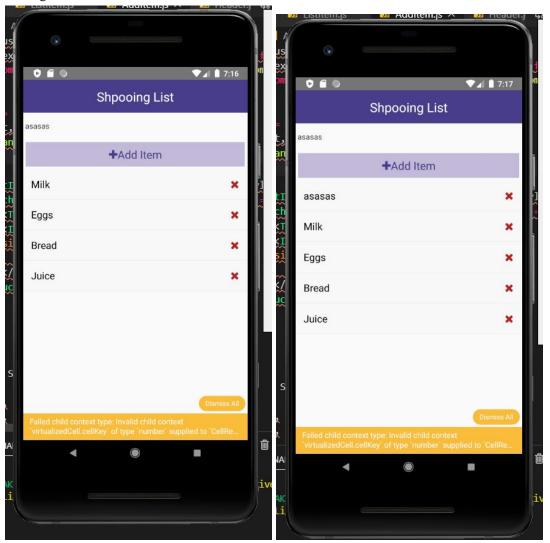
Delete item successfully implemented:



Final adding of the component:



Adding an item: tot the list



Code:

AddItem.js

```
<TextInput placeholder="Add Item..." styles={styles.input}</pre>
onChangeText={onChange}/>
          <TouchableOpacity style={styles.btn}
onPress={()=>addItem(text)}>
              <Text style={styles.btnText}>
              <Icon name="plus"</pre>
                Add Item
              </Text>
      </View>
const styles = StyleSheet.create({
   input: {
   height: 60,
   padding: 8,
   margin: 5,
   backgroundColor: '#c2bad8',
   padding: 9,
   margin: 5,
 btnText: {
   fontSize: 20,
    textAlign: 'center',
});
```

Change in App.js: