UNIVERSIDAD DON BOSCO

ESCUELA DE COMPUTACION

DISEÑO Y PROGRAMACION DE SOFTWARE MULTIPLATAFORMA



TITULO:

Guía #05

DOCENTE:

Ing. Emerson Francisco Cartagena Candelario

PRESENTADO POR:

Alvarenga Romero, Josías Isaac #AR200778,

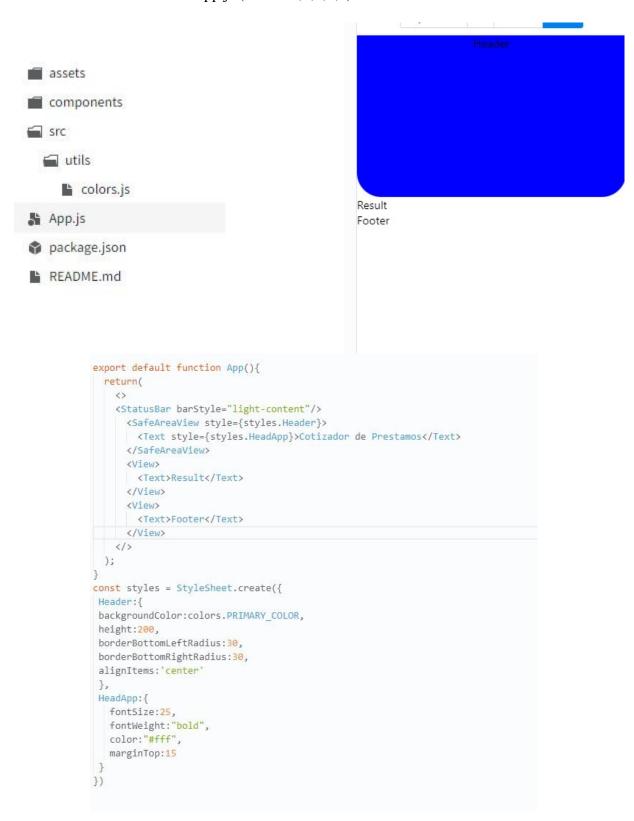
Antiguo Cuscatlán, 13 de septiembre de 2023

https://github.com/isaac-

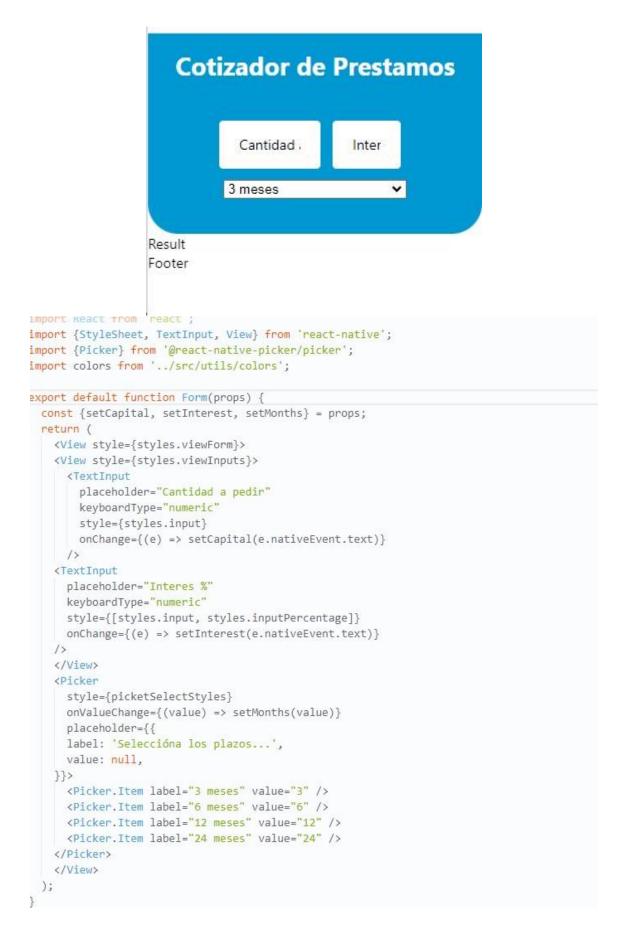
rom/GuiaLabDPS/tree/master/guia05/Procedimiento

DESARROLLO

1. Primera modificacion de App.js (Literal 1,2,3,4,5)



2. Creando Componente Form.js (Literales 6,7,8,9,10,11,12,13,14).



```
import {SafeAreaView,StyleSheet,View,Text,StatusBar} from 'react-native';
import colors from "./src/utils/colors";
import {useState} from "react";
import Form from "./components/Form";
export default function App(){
  const [capital,setCapital] = useState(null);
  const [interest, setInterest] = useState(null);
  const [months, setMonths] = useState(null);
  return(
    <>
    <StatusBar barStyle="light-content"/>
     <SafeAreaView style={styles.Header}>
        <Text style={styles.HeadApp}>Cotizador de Prestamos</Text>
         setCapital={setCapital}
          setInterest={setInterest}
          setMonths={setMonths}
      </SafeAreaView>
      <View>
       <Text>Result</Text>
      </View>
     <View>
       <Text>Footer</Text>
      </View>
   </>
  );
const styles = StyleSheet.create({
 backgroundColor:colors.PRIMARY_COLOR,
 height:200,
 borderBottomLeftRadius:30,
 borderBottomRightRadius:30,
 alignItems: 'center'
 HeadApp:{
  fontSize:25,
  fontWeight: "bold",
  color: "#fff",
  marginTop:15
}
```

3. Creando Componente Footer.js (Literales 15,16,17)

```
import { RefreshControlBase } from "react-native";
import React from 'react';
import {StyleSheet, Text, View, TouchableOpacity} from 'react-native';
import colors from '../src/utils/colors';
export default function Footer(props) {
const {calculate} = props;
return (
   <View style={styles.viewFooter}>
   <TouchableOpacity style={styles.button} onPress={calculate}>
   <Text style={styles.text}>CALCULAR</Text>
   </TouchableOpacity>
  </View>
 );
const styles = StyleSheet.create({
viewFooter: {
   position: 'absolute',
   bottom: 0,
   width: '100%',
   backgroundColor: colors.PRIMARY_COLOR,
   height: 100,
   borderTopLeftRadius: 30,
   borderTopRightRadius: 30,
   alignItems: 'center',
   justifyContent: 'center',
 button: {
   backgroundColor: colors.PRIMARY_COLOR_DARK,
    padding: 16,
   borderRadius: 20,
   width: '75%',
text: {
   fontWeight: 'bold',
   fontSize: 18,
   color: '#fff',
    textAlign: 'center',
},
});
```

<Footer/>

4. Creando Result, js (Literal 18,19,29)

```
import keact from react ;
import {StyleSheet, Text, View} from 'react-native';
export default function Result(props) {
 const {capital, interest, months, total, errorMessage} = props;
 return (
 <View style={styles.content}>
 {total && (
    <View style={styles.boxResult}>
      <Text style={styles.title}>RESUMEN</Text>
      <DataResult title="Cantidad solicitada:" value={`${capital}}</pre>
      €`} />
      <DataResult title="Interes %:" value={`${interest} %`} />
      <DataResult title="Plazos:" value={`${months} meses`} />
      <DataResult title="Pago mensual:"</pre>
      value={`${total.monthlyFee} €`} />
      <DataResult</pre>
       title="Total a pagar:"
       value={`${total.totalPayable} €`}
      />
    </View>
  )}
  <View>
    <Text style={styles.error}>{errorMessage}</Text>
 </View>
 </View>
 );
function DataResult(props) {
 const {title, value} = props;
 return (
   <View style={styles.value}>
     <Text>{title}</Text>
     <Text>{value}</Text>
   </View>
 );
```



CALCULAR

```
import {SafeAreaView,StyleSheet,View,Text,StatusBar} from 'react-native';
import colors from "./src/utils/colors";
import {useState,useEffect} from "react";
import Form from "./components/Form";
import Footer from "./components/Footer";
import Result from "./components/Result";
export default function App(){
  const [capital,setCapital] = useState(null);
  const [interest,setInterest] = useState(null);
  const [months, setMonths] = useState(null);
  const [total, setTotal] = useState(null);
  const [errorMessage, setErrorMessage] = useState('');
  useEffect(() => {
   if (capital && interest && months) calculate();
    else reset();
  }, [capital, interest, months]);
    const calculate = () => {
         reset();
         if (!capital) {
           setErrorMessage('Añade la cantidad que quieres solicitar');
         } else if (!interest) {
             setErrorMessage('Añade el interes del prestamos');
        } else if (!months) {
             setErrorMessage('Seleccióna los meses a pagar');
         } else {
             const i = interest / 100;
             const fee = capital / ((1 - Math.pow(i + 1, -months)) / i);
             setTotal({
             monthlyFee: fee.toFixed(2).replace('.', ','),
             totalPayable: (fee * months).toFixed(2).replace('.', ','),
          });
    const reset = () => {
    setErrorMessage('');
    setTotal(null);
```

```
return(
 <>
 <StatusBar barStyle="light-content"/>
   <SafeAreaView style={styles.Header}>
     <Text style={styles.HeadApp}>Cotizador de Prestamos</Text>
     <Form
      setCapital={setCapital}
      setInterest={setInterest}
       setMonths={setMonths}
     />
   </SafeAreaView>
  <Result
   capital={capital}
   interest={interest}
   months={months}
   total={total}
   errorMessage={errorMessage}
  <Footer calculate={calculate}/>
  </>
);
```



RESUMEN

Cantidad solicitada: 4 € Interes %: 3 % Plazos: 3 meses Pago mensual: 1,41 € Total a pagar: 4,24 €