

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)

assets

components

src

utils

colors.js

App.js

package.json

README.md

Header

Result

Footer

```
export default function App(){
  return(
    <>
      <StatusBar barStyle="light-content"/>
      <SafeAreaView style={styles.Header}>
        <Text style={styles.HeadApp}>Cotizador de Prestamos</Text>
      </SafeAreaView>
      <View>
        <Text>Result</Text>
      </View>
      <View>
        <Text>Footer</Text>
      </View>
    </>
  );
}

const styles = StyleSheet.create({
  Header:{
    backgroundColor:colors.PRIMARY_COLOR,
    height:200,
    borderBottomLeftRadius:30,
    borderBottomRightRadius:30,
    alignItems:'center'
  },
  HeadApp:{
    fontSize:25,
    fontWeight:"bold",
    color:"#fff",
    marginTop:15
  }
})
})
```

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



```
import React from 'react';
import {StyleSheet, TextInput, View} from 'react-native';
import {Picker} from '@react-native-picker/picker';
import colors from '../src/utils/colors';

export default function Form(props) {
  const {setCapital, setInterest, setMonths} = props;
  return (
    <View style={styles.viewForm}>
      <View style={styles.viewInputs}>
        <TextInput
          placeholder="Cantidad a pedir"
          keyboardType="numeric"
          style={styles.input}
          onChange={(e) => setCapital(e.nativeEvent.text)}
        />
        <TextInput
          placeholder="Interes %"
          keyboardType="numeric"
          style={[styles.input, styles.inputPercentage]}
          onChange={(e) => setInterest(e.nativeEvent.text)}
        />
      </View>
      <Picker
        style={picketSelectStyles}
        onValueChange={(value) => setMonths(value)}
        placeholder={{
          label: 'Selección los plazos...',
          value: null,
        }}
      >>
        <Picker.Item label="3 meses" value="3" />
        <Picker.Item label="6 meses" value="6" />
        <Picker.Item label="12 meses" value="12" />
        <Picker.Item label="24 meses" value="24" />
      </Picker>
    </View>
  );
}
```

```

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>
        <Form
          setCapital={setCapital}
          setInterest={setInterest}
          setMonths={setMonths}
        />
      </SafeAreaView>
      <View>
        <Text>Result</Text>
      </View>
      <View>
        <Text>Footer</Text>
      </View>
    </>
  );
}

const styles = StyleSheet.create({
  Header:{
    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 React 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={`$${capital} €`} />
          <DataResult title="Interes %:" value={`$${interest} %`} />
          <DataResult title="Plazos:" value={`$${months} meses`} />
          <DataResult title="Pago mensual:" value={`$${total.monthlyFee} €`} />
          <DataResult 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>
  );
}
```

Cotizador de Prestamos

Cantidad :

Inter

3 meses

Result

CALCULAR

```
import {SafeAreaView, StyleSheet, View, Text, StatusBar} from 'react-native';
import colors from './src/utills/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}/>
  </>
);

```

Cotizador de Prestamos

RESUMEN

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

CALCULAR