**Assignment No 03**

**Logo, company name

Description automatically generated**

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**COMSATS UNIVERSITY ISLAMABAD ATTOCK CAMPUS**

**Create Different Screens**

**App.js:**

import React from 'react'

import { Provider } from 'react-native-paper'

import { NavigationContainer } from '@react-navigation/native'

import { createStackNavigator } from '@react-navigation/stack'

import { theme } from './src/core/theme'

import {

  StartScreen,

  LoginScreen,

  RegisterScreen,

} from './src/screens'

const Stack = createStackNavigator()

export default function App() {

  return (

    <Provider theme={theme}>

      <NavigationContainer>

        <Stack.Navigator

          initialRouteName="StartScreen"

          screenOptions={{

            headerShown: false,

          }}

        >

          <Stack.Screen name="StartScreen" component={StartScreen} />

          <Stack.Screen name="LoginScreen" component={LoginScreen} />

          <Stack.Screen

          />

        </Stack.Navigator>

      </NavigationContainer>

    </Provider>

  )

}

**StartScreen.js:**

import React from 'react'

import Background from '../components/Background'

import Logo from '../components/Logo'

import Header from '../components/Header'

import Button from '../components/Button'

export default function StartScreen({ navigation }) {

  return (

    <Background>

      <Logo />

      <Header>Welcome To CUI Portal</Header>

      <Paragraph>

      </Paragraph>

      <Button

        mode="contained"

        onPress={() => navigation.navigate('LoginScreen')}

      >

        Login

      </Button>

      <Button

        mode="outlined"

        onPress={() => navigation.navigate('RegisterScreen')}

      >

        Sign Up

      </Button>

    </Background>

  )

}

**LoginScreen.js:**

import React, { useState } from 'react'

import { TouchableOpacity, StyleSheet, View } from 'react-native'

import { Text } from 'react-native-paper'

import Background from '../components/Background'

import Logo from '../components/Logo'

import Header from '../components/Header'

import Button from '../components/Button'

import TextInput from '../components/TextInput'

import BackButton from '../components/BackButton'

import { theme } from '../core/theme'

import { emailValidator } from '../helpers/emailValidator'

import { passwordValidator } from '../helpers/passwordValidator'

export default function LoginScreen({ navigation }) {

  const [email, setEmail] = useState({ value: '', error: '' })

  const [password, setPassword] = useState({ value: '', error: '' })

  const onLoginPressed = () => {

    const emailError = emailValidator(email.value)

    const passwordError = passwordValidator(password.value)

    if (emailError || passwordError) {

      setEmail({ ...email, error: emailError })

      setPassword({ ...password, error: passwordError })

      return

    }

    navigation.reset({

      index: 0,

      routes: [{ name: 'Dashboard' }],

    })

  }

  return (

    <Background>

      <BackButton goBack={navigation.goBack} />

      <Logo />

      <Header>Login Your Account</Header>

      <TextInput

        label="Email"

        returnKeyType="next"

        value={email.value}

        onChangeText={(text) => setEmail({ value: text, error: '' })}

        error={!!email.error}

        errorText={email.error}

        autoCapitalize="none"

        autoCompleteType="email"

        textContentType="emailAddress"

        keyboardType="email-address"

      />

      <TextInput

        label="Password"

        returnKeyType="done"

        value={password.value}

        onChangeText={(text) => setPassword({ value: text, error: '' })}

        error={!!password.error}

        errorText={password.error}

        secureTextEntry

      />

      </View>

      <Button mode="contained" onPress={onLoginPressed}>

        Login

      </Button>

      <View style={styles.row}>

        <Text>Don’t have an account? </Text>

        <TouchableOpacity onPress={() => navigation.replace('RegisterScreen')}>

          <Text style={styles.link}>Sign up</Text>

        </TouchableOpacity>

      </View>

    </Background>

  )

}

const styles = StyleSheet.create({

  forgotPassword: {

    width: '100%',

    alignItems: 'flex-end',

    marginBottom: 24,

  },

  row: {

    flexDirection: 'row',

    marginTop: 4,

  },

  forgot: {

    fontSize: 13,

    color: theme.colors.secondary,

  },

  link: {

    fontWeight: 'bold',

    color: theme.colors.primary,

  },

})

**RegisterScreen.js:**

import React, { useState } from 'react'

import { View, StyleSheet, TouchableOpacity } from 'react-native'

import { Text } from 'react-native-paper'

import Background from '../components/Background'

import Logo from '../components/Logo'

import Header from '../components/Header'

import Button from '../components/Button'

import TextInput from '../components/TextInput'

import BackButton from '../components/BackButton'

import { theme } from '../core/theme'

export default function RegisterScreen({ navigation }) {

  const [name, setName] = useState({ value: '', error: '' })

  const [email, setEmail] = useState({ value: '', error: '' })

  const [password, setPassword] = useState({ value: '', error: '' })

  const onSignUpPressed = () => {

    const nameError = nameValidator(name.value)

    const emailError = emailValidator(email.value)

    const passwordError = passwordValidator(password.value)

    if (emailError || passwordError || nameError) {

      setName({ ...name, error: nameError })

      setEmail({ ...email, error: emailError })

      setPassword({ ...password, error: passwordError })

      return

    }

    navigation.reset({

      index: 0,

      routes: [{ name: 'Dashboard' }],

    })

  }

  return (

    <Background>

      <BackButton goBack={navigation.goBack} />

      <Logo />

      <Header>Create An Account</Header>

      <TextInput

        label="Name"

        returnKeyType="next"

        value={name.value}

        onChangeText={(text) => setName({ value: text, error: '' })}

        error={!!name.error}

        errorText={name.error}

      />

      <TextInput

        label="Email"

        returnKeyType="next"

        value={email.value}

        onChangeText={(text) => setEmail({ value: text, error: '' })}

        error={!!email.error}

        errorText={email.error}

        autoCapitalize="none"

        autoCompleteType="email"

        textContentType="emailAddress"

        keyboardType="email-address"

      />

      <TextInput

        label="Password"

        returnKeyType="done"

        value={password.value}

        onChangeText={(text) => setPassword({ value: text, error: '' })}

        error={!!password.error}

        errorText={password.error}

        secureTextEntry

      />

      <Button

        mode="contained"

        onPress={onSignUpPressed}

        style={{ marginTop: 24 }}

      >

        Sign Up

      </Button>

      <View style={styles.row}>

        <Text>Already have an account? </Text>

        <TouchableOpacity onPress={() => navigation.replace('LoginScreen')}>

          <Text style={styles.link}>Login</Text>

        </TouchableOpacity>

      </View>

    </Background>

  )

}

const styles = StyleSheet.create({

  row: {

    flexDirection: 'row',

    marginTop: 4,

  },

  link: {

    fontWeight: 'bold',

    color: theme.colors.primary,

  },

})

**BackButton.js:**

import React from 'react'

import { TouchableOpacity, Image, StyleSheet } from 'react-native'

import { getStatusBarHeight } from 'react-native-status-bar-height'

export default function BackButton({ goBack }) {

  return (

    <TouchableOpacity onPress={goBack} style={styles.container}>

      <Image

        style={styles.image}

        source={require('../assets/arrow\_back.png')}

      />

    </TouchableOpacity>

  )

}

const styles = StyleSheet.create({

  container: {

    position: 'absolute',

    top: 10 + getStatusBarHeight(),

    left: 4,

  },

  image: {

    width: 24,

    height: 24,

  },

})

**Background.js:**

import React from 'react'

import { ImageBackground, StyleSheet, KeyboardAvoidingView } from 'react-native'

import { theme } from '../core/theme'

export default function Background({ children }) {

  return (

    <ImageBackground

      source={require('../assets/background\_dot.png')}

      resizeMode="repeat"

      style={styles.background}

    >

      <KeyboardAvoidingView style={styles.container} behavior="padding">

        {children}

      </KeyboardAvoidingView>

    </ImageBackground>

  )

}

const styles = StyleSheet.create({

  background: {

    flex: 1,

    width: '100%',

    backgroundColor: theme.colors.surface,

  },

  container: {

    flex: 1,

    padding: 20,

    width: '100%',

    maxWidth: 340,

    alignSelf: 'center',

    alignItems: 'center',

    justifyContent: 'center',

  },

})

**Button.js:**

import React from 'react'

import { StyleSheet } from 'react-native'

import { Button as PaperButton } from 'react-native-paper'

import { theme } from '../core/theme'

export default function Button({ mode, style, ...props }) {

  return (

    <PaperButton

      style={[

        styles.button,

        mode === 'outlined' && { backgroundColor: theme.colors.surface },

        style,

      ]}

      labelStyle={styles.text}

      mode={mode}

      {...props}

    />

  )

}

const styles = StyleSheet.create({

  button: {

    width: '100%',

    marginVertical: 10,

    paddingVertical: 2,

  },

  text: {

    fontWeight: 'bold',

    fontSize: 18,

    lineHeight: 26,

  },

})

**Logo.js:**

import React from 'react'

import { Image, StyleSheet } from 'react-native'

export default function Logo() {

  return <Image source={require('../assets/comsats.png')} style={styles.image} />

}

const styles = StyleSheet.create({

  image: {

    width: 110,

    height: 110,

    marginBottom: 8,

  },

})

**Paragraph.js:**

import React from 'react'

import { StyleSheet } from 'react-native'

import { Text } from 'react-native-paper'

export default function Paragraph(props) {

  return <Text style={styles.text} {...props} />

}

const styles = StyleSheet.create({

  text: {

    fontSize: 15,

    lineHeight: 21,

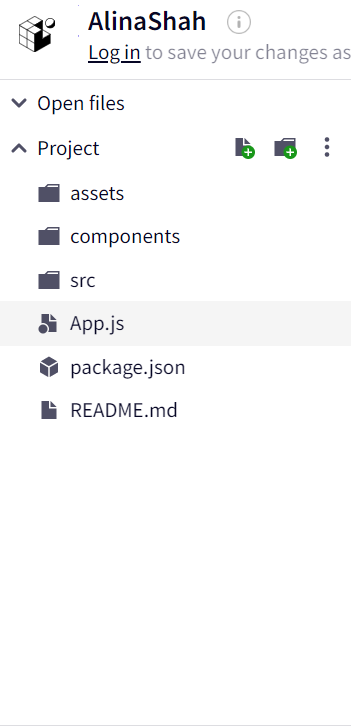
    textAlign: 'center',

    marginBottom: 12,

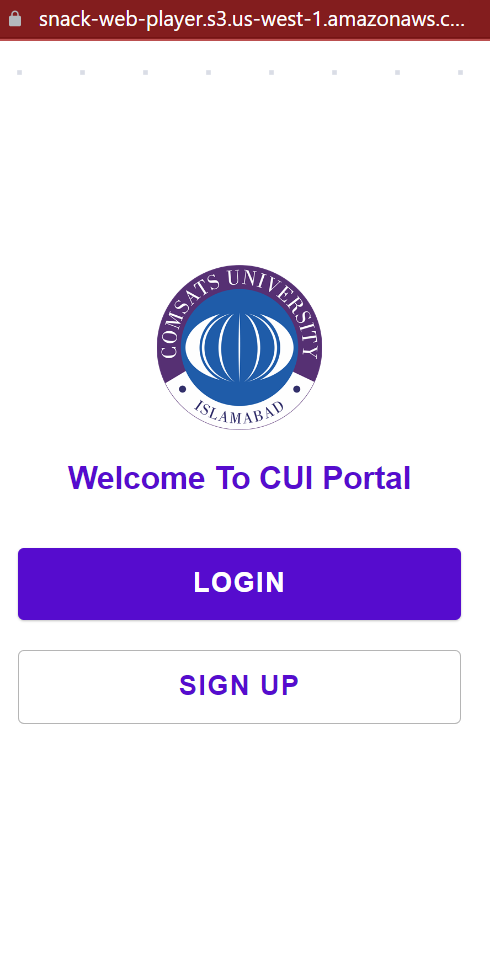
  },

})

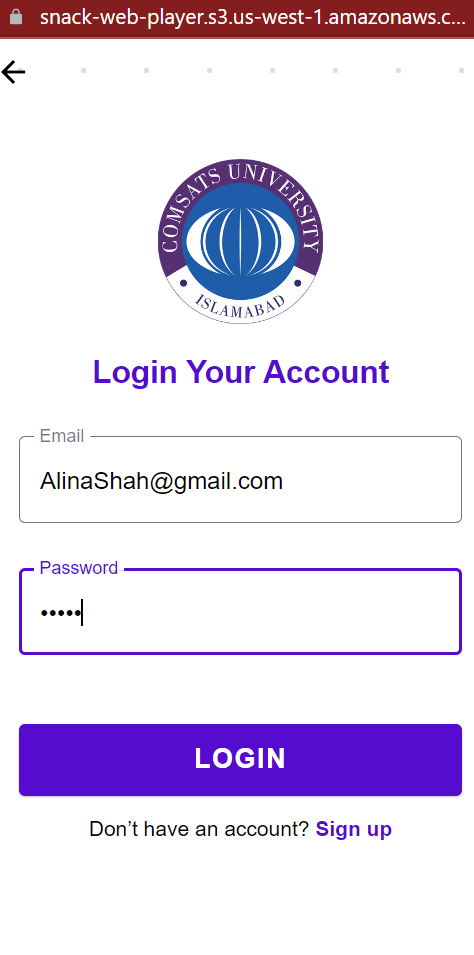
**Output:**

****

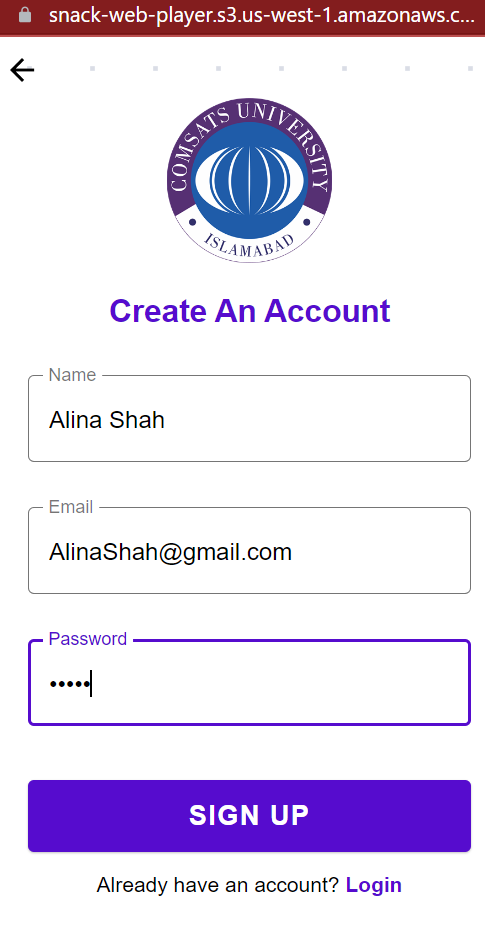
1. **Start Screen:**

****

1. **Login Screen:**

****

1. **Register Screen**

****

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |