

TEAMMATES:

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ICP9 – Report

Programming Tools:

GitHub, VS Code

Source Code:

Pavan – 16234822

<https://github.com/JVSPAVAN/WebMobile-2022Spring/tree/main/Mobile/ICP9>

Vamsi – 18230326

<https://github.com/VamsiAlapaty/Web-Mobile-Spring2022/tree/mobile>

Priya - 16332852

https://github.com/Privar11/Web_Mobile_Programming_ICP/tree/main/Web_Programming

Objective:

This task concentrates on understanding the concept of Android platform. And create a pizza ordering app.

Task:

Creating an Android application using React-native.

Steps done to achieve the above task:

1. Create a login screen.
2. Create screen which consists of a form for ordering pizza.
3. Create a order summary screen.
4. Send a mail to the user with order details.

A detail description of the achieved tasks for Pizza ordering app.

React-native is taken as the coding platform to create this pizza ordering app. A basic login screen is created to get the details of the user to send the mail at the end of the application.

App

It's Just Pizza



Email

Password

LOGIN

Ordering screen:

Post login user will be navigated to ordering screen. Here user can find a form to choose the pizza according to the user's choice. A dropdown is used to display different types of pizzas. In react-native, 'Picker' is used as a dropdown. A multi select checkbox is used for selecting different types of toppings over the pizza. This checkbox is imported from 'react-native-paper' library. Same is also used for the selection of beverages.

← App

Type

Margherita ▼

Quantity

- 2 +

Toppings

☐ sausage

☐ salami

☒ cheddar

☒ tomato

☐ braised

Beverages

☐ fanta \$ 2.45

☒ pepsi + \$ 1.45

☒ sprite + \$ 2.15

☐ water \$ 0.85

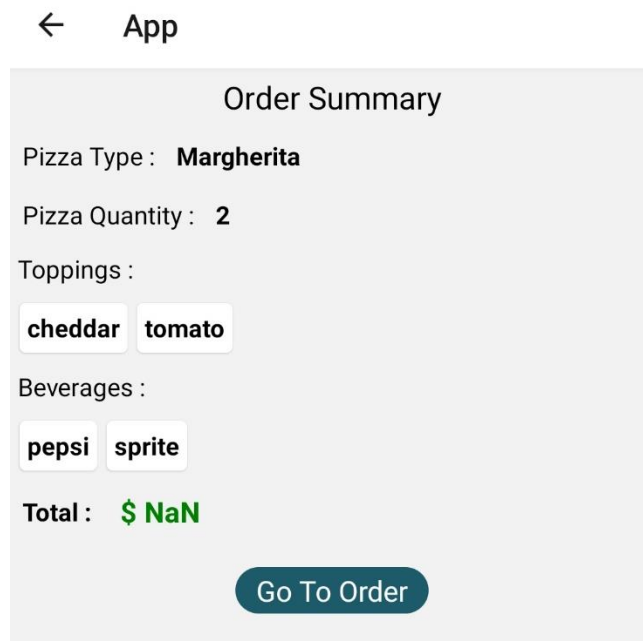
Order

Summary

Once the ordering is done, user can check the order details by navigating into the order summary screen. Here user can cross check the order details and conform or edit the order by navigating back to the ordering screen.

Summary Screen:

When the User navigates to the order summary screen, a list will be displayed with all the order details. 'FlatList' is used to display in list format.



Email Confirmation:

When the user decides to place the order, user can click the order button at the bottom of the screen. A email will be sent to the user with the details of the order.



This is achieved by the 'Linking' library present in the react-native.



```
108
109     setEmail(
110         email,
111         "Order placement invoice",
112         "This is confirmation of invoice from the 'It's Just Pizza'."+
113         "\n\n Your order details. \n\n Pizza Type: "+ newOrder.finalType
114         + "\n Quantity : " + newOrder.finalQuantity
115         + "\n Pizza Toppings: "+ topsArray +"\n Beverages: "
116         + drinksArray+ "\n\n Total Price: $" + newOrder.totalPrice
117         + "\n\n Thanks for ordering with us."
118     )
119     .then(() => {
120         console.log("Your message was successfully sent!");
121     })
122     .catch((err) => {
123         console.log(err);
124     });
125 };
126
```

```

1 import qs from 'qs';
2 import { Linking } from 'react-native';
3
4
5 export async function sendEmail(to, subject, body, options = {}) {
6   const { cc, bcc } = options;
7
8   let url = `mailto:${to}`;
9
10  // Create email link query
11  const query = qs.stringify({
12    subject: subject,
13    body: body,
14    cc: cc,
15    bcc: bcc
16  });
17
18  if (query.length) {
19    url += `?${query}`;
20  }
21
22  // check if we can use this link
23  const canOpen = await Linking.canOpenURL(url);
24
25  if (!canOpen) {
26    throw new Error('Provided URL can not be handled');
27  }
28
29  return Linking.openURL(url);
30 }

```

←    

Order placement invoice  Inbox 



JVS Pavan Kumar 10:47 PM
to me 



This is confirmation of invoice from the 'It's Just Pizza'.

Your order details.

Pizza Type: Margherita
Quantity : 2
Pizza Toppings: cheddar , tomato
Beverages: pepsi , sprite

Total Price: \$NaN

Thanks for ordering with us.

Conclusion:

This react-native app can be viewed in the android emulator or any physical device. As this is a react-native app , the users can also be able to operate in the IOS devices as well.