

App.js

```
1 // Food app
2
3 /* I wrote the entire code myself but not without help from instructions which I wrote
4 alongside code as comments. The code between
5 // Start & // End is the one which I wrote without direct help from instructions*/
6
7 // Step 2: Import required libraries
8
9 // Start
10 // Provides status bar component for styling and display control
11 import { StatusBar } from 'expo-status-bar';
12
13 // Importing React library to use JSX syntax and React components
14 import React from 'react';
15
16 // Importing necessary components from React Native for UI
17 import { StyleSheet, Text, View, ScrollView, Image, TouchableOpacity } from 'react-native';
18
19 // Navigation container to wrap the entire app and manage navigation state
20 import { NavigationContainer } from '@react-navigation/native';
21
22 // Stack navigator to implement stack-based navigation between screens
23 import { createStackNavigator } from '@react-navigation/stack';
24
25 // Importing components to create table views with sections and cells
26 import { Cell, Section, Tableview } from 'react-native-tableview-simple';
27 // End
28
29 // Step 3: Create a Stack navigator instance
30 const Stack = createStackNavigator(); // Initialize Stack navigator for navigation between
    screens
31
32 // Start
33 // Custom data for table cells, including menu items with prices, calories, and descriptions
34 // Each restaurant object contains title, tagline, ETA, an image URI, and a menu array with
    details about each item
35 const restaurantsData = [
36   {
37     title: "Joe's Gelato",
38     tagline: "Dessert, Ice cream, $$$",
39     eta: "10-30",
40     imgUrl: require('./assets/pexels_iceCream.jpg'),
41     menu: [
42       {
43         title: "Vanilla",
44         calories: "200 kcal",
45         price: "£3.00",
46         imgUrl: require('./assets/unsplash_vanillaIceCream.jpg'),
47         description: "Creamy vanilla gelato made with fresh vanilla beans."
48       },
49       {
50         title: "Mint",
```

```
51     calories: "250 kcal",
52     price: "£3.50",
53     imgUrl: require('./assets/unsplash_mintIceCream.jpg'),
54     description: "Fresh mint gelato with chocolate chips."
55 },
56 {
57     title: "Strawberry",
58     calories: "220 kcal",
59     price: "£3.20",
60     imgUrl: require('./assets/pexels_strawberryIceCream.jpg'),
61     description: "Sweet strawberry gelato made from organic strawberries."
62 }
63 ],
64 },
65 {
66     title: "Pizza Palace",
67     tagline: "Pizza, Italian, ££",
68     eta: "15-40",
69     imgUrl: require('./assets/unsplash_pizza.jpg'),
70     menu: [
71         {
72             title: "Margherita",
73             calories: "700 kcal",
74             price: "£8.00",
75             imgUrl: require('./assets/pexels_margheritaPizza.jpg'),
76             description: "Classic margherita pizza with fresh mozzarella and basil."
77         },
78         {
79             title: "Pepperoni",
80             calories: "850 kcal",
81             price: "£9.00",
82             imgUrl: require('./assets/pexels_pepperoniPizza.jpg'),
83             description: "Pepperoni pizza topped with spicy pepperoni slices."
84         },
85         {
86             title: "Vegetarian",
87             calories: "650 kcal",
88             price: "£8.50",
89             imgUrl: require('./assets/pexels_vegetarianPizza.jpg'),
90             description: "Vegetarian pizza with a selection of seasonal vegetables."
91         }
92     ],
93 },
94 {
95     title: "Joe's Café",
96     tagline: "Coffee, ££",
97     eta: "5-10",
98     imgUrl: require('./assets/unsplash_cafe.jpg'),
99     menu: [
100         {
101             title: "Cappuccino",
102             calories: "150 kcal",
103             price: "£2.80",
104             imgUrl: require('./assets/pexels_cappuccino.jpg'),
```

```
105     description: "Rich and creamy cappuccino topped with foam."
106   },
107   {
108     title: "Latte",
109     calories: "180 kcal",
110     price: "£3.00",
111     imgUrl: require('./assets/pexels_latte.jpg'),
112     description: "Smooth latte with steamed milk and espresso."
113   },
114   {
115     title: "Flat White",
116     calories: "170 kcal",
117     price: "£3.20",
118     imgUrl: require('./assets/pexels_flatWhite.jpg'),
119     description: "Flat white with a perfect blend of espresso and microfoam."
120   }
121 ],
122 },
123 {
124   title: "Joe's Diner",
125   tagline: "Burgers, ££",
126   eta: "50+",
127   imgUrl: require('./assets/unsplash_diner.jpg'),
128   menu: [
129     {
130       title: "Classic Burger",
131       calories: "600 kcal",
132       price: "£6.00",
133       imgUrl: require('./assets/pexels_classicBurger.jpg'),
134       description: "Classic beef burger served with fresh lettuce and tomatoes."
135     },
136     {
137       title: "Cheeseburger",
138       calories: "700 kcal",
139       price: "£6.50",
140       imgUrl: require('./assets/pexels_cheeseburger.jpg'),
141       description: "Cheeseburger topped with cheddar and served with fries."
142     },
143     {
144       title: "Veggie Burger",
145       calories: "500 kcal",
146       price: "£5.50",
147       imgUrl: require('./assets/pexels_veggieBurger.jpg'),
148       description: "Delicious veggie burger made with fresh vegetables."
149     }
150   ],
151 },
152 ];
153 // End
154
155 // Step 4: The Home Screen component, displaying a ScrollView containing TableView and
Section
156 // RestaurantsScreen - Displays a list of restaurants
```

```

157 const RestaurantsScreen = ({ navigation }) => { // Receives navigation prop to navigate
    between screens
158     return (
159         <ScrollView style={styles.container}>
160             <TableView>
161                 <Section header="" hideSeparator separatorTintColor="#ccc"> {/* Section for
restaurant list, hides separator */}
162                 // Start
163                 {/* Step 5: Define and display HomeScreenCell for each restaurant with props */}
164                 {restaurantsData.map((restaurant, index) => (
165                     <HomeScreenCell
166                         key={index} // Unique key for each restaurant cell
167                         title={restaurant.title} // Passes restaurant title as prop
168                         tagline={restaurant.tagline} // Passes tagline describing cuisine or type
169                         eta={restaurant.eta} // Passes estimated time for preparation/delivery
170                         imgUrl={restaurant.imgUri} // Passes image URI for the restaurant's header
171                         action={() => navigation.navigate('Menu', { items: restaurant.menu })} //
Navigates to Menu screen with menu items as parameters
172                     />
173                 )))}
174             </Section>
175         </TableView>
176     </ScrollView>
177 );
178 };
179 // End
180
181 // Step 5: HomeScreenCell for displaying restaurant information
182 // HomeScreenCell - Custom component for each restaurant cell
183 const HomeScreenCell = ({ title, tagline, eta, imgUrl, action }) => (
184     // Step 6: Setup onPress to navigate to Menu screen upon clicking
185     <TouchableOpacity onPress={action} style={styles.cell}>
186         <Cell
187             cellContentView={
188                 <View style={styles.cellContentView}>
189                     {/* Image as per Step 5 */}
190                     <Image source={imgUri} style={styles.image} />
191                     {/* Display ETA in absolute position */}
192                     <Text style={styles.etaText}>{eta} min</Text>
193                     {/* Restaurant title and tagline */}
194                     <Text style={styles.titleText}>{title}</Text>
195                     <Text style={styles.taglineText}>{tagline}</Text>
196                 </View>
197             }
198             // Start
199             backgroundColor="white"
200             // End
201         />
202     </TouchableOpacity>
203 );
204
205 // Step 7: MenuScreen to display a table view of menu items with details
206 // MenuScreen - Displays menu items of the selected restaurant
207 const MenuScreen = ({ route, navigation }) => {

```

```

208   const { items } = route.params;
209
210   return (
211     <ScrollView style={styles.container}>
212       <TableView>
213         <Section header="Menu" hideSeparator>
214           {items.map((item, idx) => (
215             // Start
216             <Cell
217               key={idx}
218               title={<Text style={styles.menuTitleText}>{item.title}</Text> // Apply title
text style
219               detail={<Text style={styles.menuDetailText}>`${item.price} •
${item.calories}`</Text> // Apply detail text style
220               accessory="DisclosureIndicator"
221               onPress={() => navigation.navigate('Details', { item })}
222               backgroundColor="white"
223             />
224           )}}
225         </Section>
226       </TableView>
227     </ScrollView>
228   );
229 };
230
231 // New DetailsScreen component to display detailed information for each menu item
232 // DetailsScreen - Shows detailed view of the selected menu item
233 const DetailsScreen = ({ route }) => { // Receives route prop to access parameters
234   const { item } = route.params; // Destructures item details from route parameters
235
236   return (
237     <ScrollView contentContainerStyle={styles.detailsContainer}>
238       <Image source={item.imgUri} style={styles.detailsImage} />
239       <Text style={styles.detailsTitle}>{item.title}</Text>
240       <Text style={styles.detailsDescription}>{item.description}</Text>
241       <Text style={styles.detailsPrice}>Price: {item.price}</Text>
242       <Text style={styles.detailsCalories}>Calories: {item.calories}</Text>
243     </ScrollView>
244   );
245 };
246
247 // Step 3: Wrap App() contents in a NavigationContainer with a Stack.Navigator
248 export default function App()
249 {
250   return (
251     <NavigationContainer>
252       <Stack.Navigator initialRouteName="Restaurants">
253         {/* Step 3: Add Restaurants, Menu, and Details screens to Stack.Navigator */}
254         <Stack.Screen name="Restaurants" component={RestaurantsScreen} />
255         <Stack.Screen name="Menu" component={MenuScreen} />
256         <Stack.Screen name="Details" component={DetailsScreen} />
257       </Stack.Navigator>
258     </NavigationContainer>
259   );

```

```
260 }
261
262 // Styling according to specifications given in steps
263 const styles = StyleSheet.create({
264   container:
265   {
266     flex: 1, // Fullscreen layout
267     backgroundColor: '#fff', // White background
268   },
269   cell:
270   {
271     height: 290, // Fixed cell height for restaurant entries
272     backgroundColor: 'transparent',
273     highlightColor: '#ccc', // Highlight color for when the cell is pressed
274   },
275   cellContentView:
276   {
277     flex: 1, // Cell content fills available space
278     alignItems: 'center', // Center align contents
279     justifyContent: 'center', // Center contents vertically
280     backgroundColor: 'white',
281   },
282   image:
283   {
284     width: '100%', // Full width of cell
285     height: 220, // Fixed height
286     borderRadius: 10, // Rounded corners
287   },
288   etaText:
289   {
290     position: 'absolute', // Positioned relative to parent
291     top: 10, // Distance from top of image
292     left: 10, // Distance from left of image
293     backgroundColor: '#000', // Black background
294     color: '#fff', // White text color
295     padding: 5, // Padding inside label
296     borderRadius: 5, // Rounded corners
297     fontSize: 12, // Font size for ETA text
298   },
299   titleText:
300   {
301     fontSize: 18, // Large font for title
302     fontWeight: 'bold', // Bold font weight
303     marginTop: 10, // Spacing above title
304     textAlign: 'center', // Center-aligned text
305   },
306   taglineText:
307   {
308     fontSize: 14, // Smaller font for tagline
309     color: '#555', // Gray color for tagline text
310     textAlign: 'center', // Center-aligned text
311     marginBottom: 10, // Bottom margin for spacing
312   },
313   menuTitleText:
```

```
314 {
315   fontSize: 18, // Set font size for the menu title
316   color: 'black', // Set text color
317 },
318 detailsContainer:
319 {
320   padding: 20, // Padding around details content
321   alignItems: 'center', // Center align details content
322 },
323 detailsImage:
324 {
325   width: '100%', // Full width
326   height: 500, // Fixed height for detail image
327   marginBottom: 20, // Bottom margin
328   borderRadius: 10, // Rounded corners for detail image
329 },
330 detailsTitle:
331 {
332   fontSize: 24, // Large font for title
333   fontWeight: 'bold', // Bold font weight for emphasis
334   marginBottom: 10, // Bottom margin
335 },
336 detailsDescription:
337 {
338   fontSize: 16, // Standard font for description
339   textAlign: 'center', // Centered text alignment
340   color: '#555', // Gray color for description text
341   marginBottom: 10, // Bottom margin for spacing
342 },
343 detailsPrice:
344 {
345   fontSize: 18, // Font size for price text
346   fontWeight: 'bold', // Bold for emphasis
347   marginTop: 10, // Top margin for spacing
348 },
349 detailsCalories:
350 {
351   fontSize: 16, // Font size for calories
352   color: '#777', // Light gray for calories info
353   marginTop: 5, // Top margin for spacing
354 },
355 });
356 // End
357
358 /*
359 Image Sources:
360 Ice Cream - https://www.pexels.com/photo/close-up-photo-of-a-bowl-of-ice-cream-2586924/
361 Pizza - https://unsplash.com/photos/close-up-photo-of-pizza-with-cheese-D3Mag4BKqns
362 Cafe - https://unsplash.com/photos/round-brown-wooden-table-with-french-press-on-top-with-
white-ceramic-teacup-beside-3b2tADGAWnU
363 Diner - https://unsplash.com/photos/empty-red-leather-padded-bench-JpuAYS3vxjk
364 Vanilla Ice Cream - https://unsplash.com/photos/a-cup-of-ice-cream-with-a-spoon-in-it-
OxrbM3WCaI8
```

```
365 | Mint Ice Cream - https://unsplash.com/photos/selective-focus-photo-of-cup-of-ice-cream-
    | Q6uTgpj1E7A
366 | Strawberry Ice Cream - https://www.pexels.com/photo/ice-cream-with-strawberry-on-clear-
    | glass-footed-cup-11569103/
367 | Margherita Pizza - https://www.pexels.com/photo/pizza-on-a-wooden-table-16890470/
368 | Pepperoni Pizza - https://www.pexels.com/photo/pizza-on-brown-wooden-board-825661/
369 | Vegetarian Pizza - https://www.pexels.com/photo/pizza-margherita-cut-in-four-18431672/
370 | Cappuccino - https://www.pexels.com/photo/artistic-cappuccino-and-coffee-table-setup-
    | 29064588/
371 | Latte - https://www.pexels.com/photo/cappuccino-filled-glass-on-saucer-350478/
372 | Flat White - https://www.pexels.com/photo/coffee-in-white-ceramic-teacup-on-white-ceramic-
    | suacer-894696/
373 | Classic Burger - https://www.pexels.com/photo/burgers-on-ceramic-plate-4109133/
374 | Cheeseburger - https://www.pexels.com/photo/btl-burger-with-fries-551991/
375 | Veggie Burger - https://www.pexels.com/photo/bread-food-sandwich-healthy-6546029/
376 | */
```