



SISTEMA DE ENSINO À DISTÂNCIA
ANÁLISE E DESENVOLVIMENTO DE SISTEMAS

LEONARDO ESTANISLAU DE ANDRADE

DESENVOLVIMENTO MOBILE:
Desenvolvimento de Aplicativo de Hamburgueria.

Santo André – SP
2025

Trabalho apresentado relativo ao 5º Semestre.
Portfólio para as Disciplinas de:

Desenvolvimento Mobile
Elisa Antolli Paleari

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1 INTRODUÇÃO

Foi desenvolvido um aplicativo para uma hamburgueria utilizando o Android Studio com a linguagem Java.

2 DESENVOLVIMENTO

Foi utilizado o Android Studio 2024.3.1.14 para isso com a linguagem Java, criei o projeto utilizando a linguagem Java, desenhei a interface arrastando os componentes e fazendo algumas edições no XML da activity, e escrevi o código para o aplicativo funcionar. Coloquei o ícone da hamburgueria no aplicativo utilizando o Image Asset e rodei ele diretamente no meu celular Samsung, com o Android 10, que tive que ativar a depuração USB no mesmo pra rodar o aplicativo. Depois de instalado, o aplicativo chamou o meu cliente de e-mail padrão (Outlook) para enviar o e-mail para a hamburgueria (utilizando um e-mail fictício da mesma) Depois fiz a exportação do projeto em ZIP.

2.1 TAREFA 1

Imagens do Android Studio 2024.3.1 e do Android 10 do meu celular Samsung com o aplicativo da hamburgueria instalado nele.

New Project

Empty Views Activity

Creates a new empty activity

Name
HamburgueriaZ

Package name
com.portfolio.hamburgueriaz

Save location
C:\Projetos\Mobile\Android\HamburgueriaZ

Language
Java

Minimum SDK
API 24 ("Nougat"; Android 7.0)

Your app will run on approximately 97,4% of devices.
[Help me choose](#)

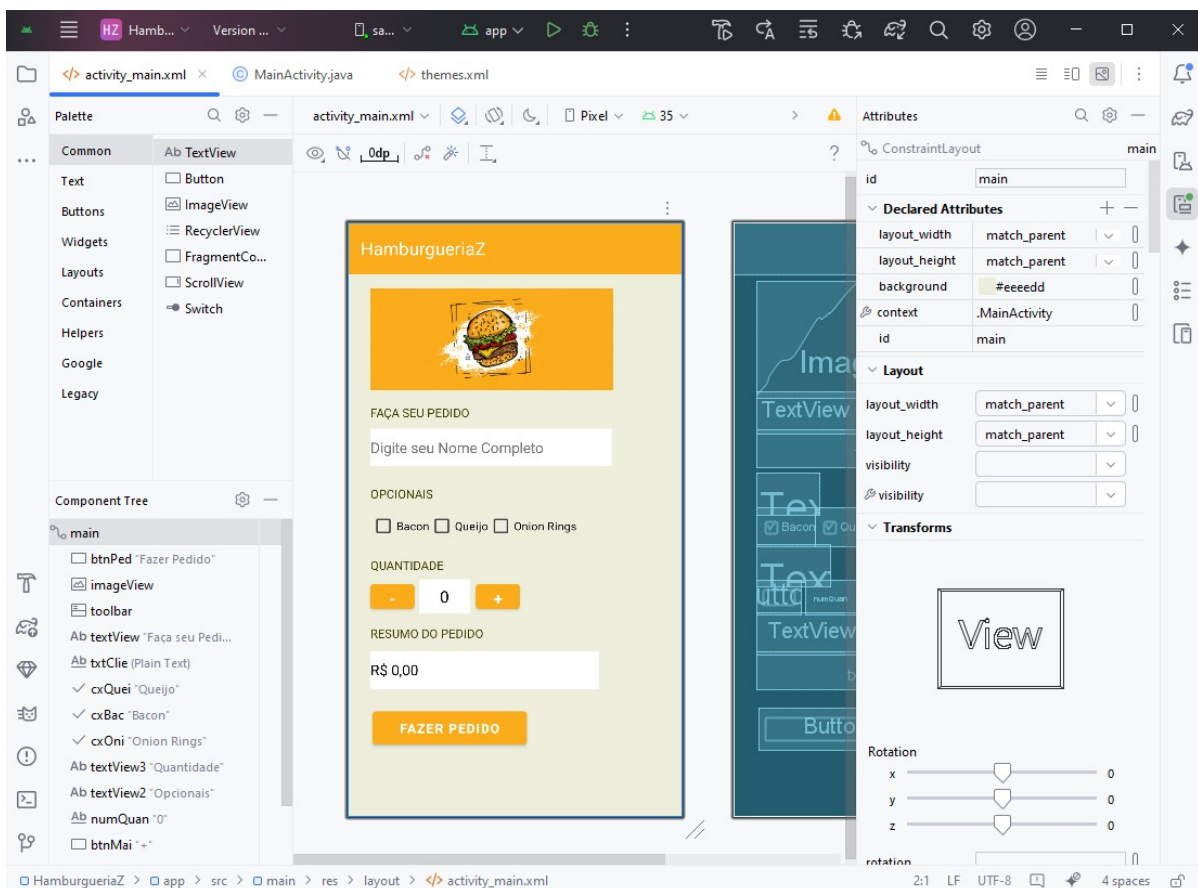
Build configuration language ?
Groovy DSL (build.gradle)

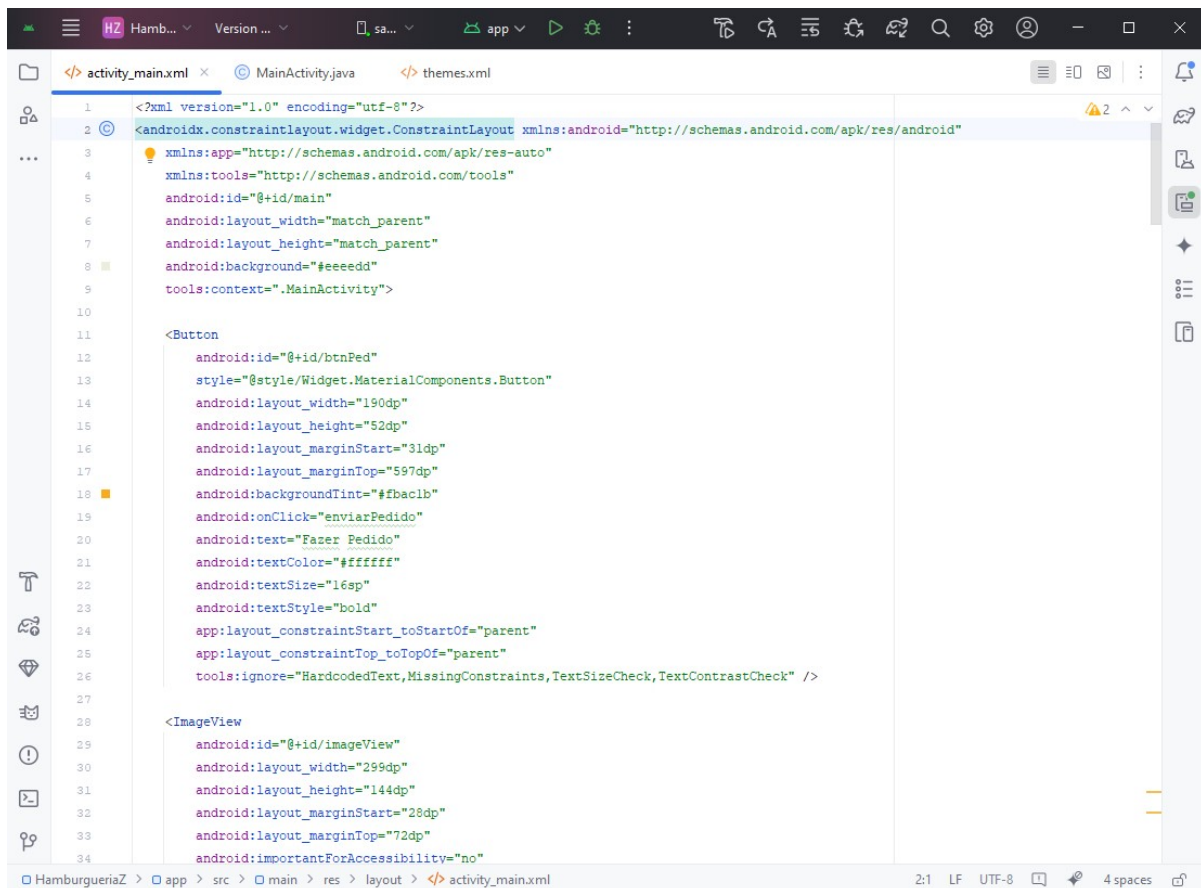
Previous

Next

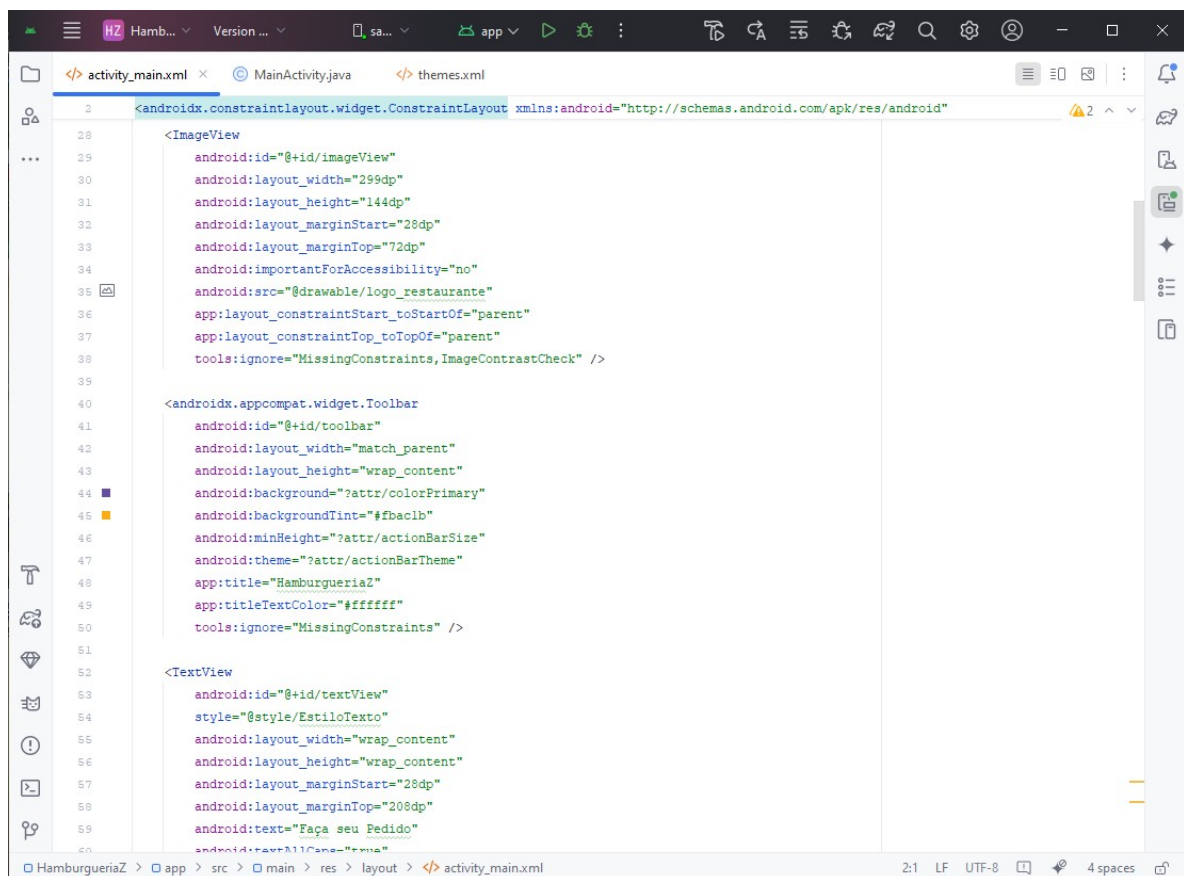
Cancel

Finish





```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:background="#eeeeee"
9     tools:context=".MainActivity">
10
11     <Button
12         android:id="@+id/btnPed"
13         style="@style/Widget.MaterialComponents.Button"
14         android:layout_width="190dp"
15         android:layout_height="52dp"
16         android:layout_marginStart="31dp"
17         android:layout_marginTop="597dp"
18         android:backgroundTint="#fbac1b"
19         android:onClick="enviarPedido"
20         android:text="Fazer Pedido"
21         android:textColor="#ffffff"
22         android:textSize="16sp"
23         android:textStyle="bold"
24         app:layout_constraintStart_toStartOf="parent"
25         app:layout_constraintTop_toTopOf="parent"
26         tools:ignore="HardcodedText,MissingConstraints,TextSizeCheck,TextContrastCheck" />
27
28     <ImageView
29         android:id="@+id/imageView"
30         android:layout_width="299dp"
31         android:layout_height="144dp"
32         android:layout_marginStart="28dp"
33         android:layout_marginTop="72dp"
34         android:importantForAccessibility="no"
35         android:src="@drawable/logo_restaurante"
36         app:layout_constraintStart_toStartOf="parent"
37         app:layout_constraintTop_toTopOf="parent"
38         tools:ignore="MissingConstraints,ImageContrastCheck" />
39
40     <androidx.appcompat.widget.Toolbar
41         android:id="@+id/toolbar"
42         android:layout_width="match_parent"
43         android:layout_height="wrap_content"
44         android:background="?attr/colorPrimary"
45         android:backgroundTint="#fbac1b"
46         android:minHeight="?attr/actionBarSize"
47         android:theme="?attr/actionBarTheme"
48         app:title="HamburgueriaZ"
49         app:titleTextColor="#ffffff"
50         tools:ignore="MissingConstraints" />
51
52     <TextView
53         android:id="@+id/textView"
54         style="@style/EstiloTexto"
55         android:layout_width="wrap_content"
56         android:layout_height="wrap_content"
57         android:layout_marginStart="28dp"
58         android:layout_marginTop="208dp"
59         android:text="Faça seu Pedido"
60         android:textAllCaps="true"
61         tools:ignore="TextContrastCheck" />
62 </androidx.constraintlayout.widget.ConstraintLayout>
```



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28 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
29     xmlns:app="http://schemas.android.com/apk/res-auto"
30     xmlns:tools="http://schemas.android.com/tools"
31     android:id="@+id/main"
32     android:layout_width="match_parent"
33     android:layout_height="match_parent"
34     android:background="#eeeeee"
35     tools:context=".MainActivity">
36
37     <Button
38         android:id="@+id/btnPed"
39         style="@style/Widget.MaterialComponents.Button"
40         android:layout_width="190dp"
41         android:layout_height="52dp"
42         android:layout_marginStart="31dp"
43         android:layout_marginTop="597dp"
44         android:backgroundTint="#fbac1b"
45         android:onClick="enviarPedido"
46         android:text="Fazer Pedido"
47         android:textColor="#ffffff"
48         android:textSize="16sp"
49         android:textStyle="bold"
50         app:layout_constraintStart_toStartOf="parent"
51         app:layout_constraintTop_toTopOf="parent"
52         tools:ignore="HardcodedText,MissingConstraints,TextSizeCheck,TextContrastCheck" />
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54     <ImageView
55         android:id="@+id/imageView"
56         android:layout_width="299dp"
57         android:layout_height="144dp"
58         android:layout_marginStart="28dp"
59         android:layout_marginTop="72dp"
60         android:importantForAccessibility="no"
61         android:src="@drawable/logo_restaurante"
62         app:layout_constraintStart_toStartOf="parent"
63         app:layout_constraintTop_toTopOf="parent"
64         tools:ignore="MissingConstraints,ImageContrastCheck" />
65
66     <androidx.appcompat.widget.Toolbar
67         android:id="@+id/toolbar"
68         android:layout_width="match_parent"
69         android:layout_height="wrap_content"
70         android:background="?attr/colorPrimary"
71         android:backgroundTint="#fbac1b"
72         android:minHeight="?attr/actionBarSize"
73         android:theme="?attr/actionBarTheme"
74         app:title="HamburgueriaZ"
75         app:titleTextColor="#ffffff"
76         tools:ignore="MissingConstraints" />
77
78     <TextView
79         android:id="@+id/textView"
80         style="@style/EstiloTexto"
81         android:layout_width="wrap_content"
82         android:layout_height="wrap_content"
83         android:layout_marginStart="28dp"
84         android:layout_marginTop="208dp"
85         android:text="Faça seu Pedido"
86         android:textAllCaps="true"
87         tools:ignore="TextContrastCheck" />
88 </androidx.constraintlayout.widget.ConstraintLayout>
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2      <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3
4      <TextView
5
6          android:id="@+id/textView"
7          style="@style/EstiloTexto"
8          android:layout_width="wrap_content"
9          android:layout_height="wrap_content"
10         android:layout_marginStart="28dp"
11         android:layout_marginTop="208dp"
12         android:text="Faça seu Pedido"
13         android:textAllCaps="true"
14         android:textColor="#404000"
15         android:textSize="15sp"
16         app:layout_constraintStart_toStartOf="parent"
17         app:layout_constraintTop_toTopOf="parent"
18         tools:ignore="HardcodedText,MissingConstraints" />
19
20     <EditText
21
22         android:id="@+id/txtCli"
23         android:layout_width="297dp"
24         android:layout_height="46dp"
25         android:layout_marginStart="28dp"
26         android:layout_marginTop="254dp"
27         android:background="#ffffff"
28         android:ems="10"
29         android:hint="Digite seu Nome Completo"
30         android:inputType="text"
31         android:textColor="#000000"
32         android:textColorHint="#757575"
33         app:layout_constraintStart_toStartOf="parent"
34         app:layout_constraintTop_toTopOf="parent"
35         tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,SpeakableTextPresentCheck,TouchTargetSizeCheck" />
36
37     <CheckBox
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39         android:id="@+id/cxQuei"
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82      <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
83
84      <CheckBox
85
86          android:id="@+id/cxQuei"
87          android:layout_width="wrap_content"
88          android:layout_height="wrap_content"
89          android:text="Queijo"
90          android:textColor="#000000"
91          tools:layout_editor_absoluteX="100dp"
92          tools:layout_editor_absoluteY="350dp"
93          tools:ignore="HardcodedText,MissingConstraints"
94          app:layout_constraintStart_toStartOf="parent"
95          app:layout_constraintTop_toTopOf="parent"
96          android:layout_marginStart="100dp"
97          android:layout_marginTop="350dp"/>
98
99     <CheckBox
100
101         android:id="@+id/cxBac"
102         android:layout_width="wrap_content"
103         android:layout_height="wrap_content"
104         android:text="Bacon"
105         android:textColor="#000000"
106         tools:layout_editor_absoluteX="28dp"
107         tools:layout_editor_absoluteY="350dp"
108         tools:ignore="HardcodedText,MissingConstraints"
109         app:layout_constraintStart_toStartOf="parent"
110         app:layout_constraintTop_toTopOf="parent"
111         android:layout_marginStart="28dp"
112         android:layout_marginTop="350dp"/>
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114     <CheckBox
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116         android:id="@+id/cxOni"
117         android:layout_width="wrap_content"
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activity_main.xml x MainActivity.java x themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
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111
112 <CheckBox
113     android:id="@+id/cxOni"
114     android:layout_width="wrap_content"
115     android:layout_height="wrap_content"
116     android:text="Onion Rings"
117     android:textColor="#000000"
118     tools:layout_editor_absoluteX="173dp"
119     tools:layout_editor_absoluteY="350dp"
120     tools:ignore="HardcodedText,MissingConstraints"
121     app:layout_constraintStart_toStartOf="parent"
122     app:layout_constraintTop_toTopOf="parent"
123     android:layout_marginStart="173dp"
124     android:layout_marginTop="350dp"/>
125
126 <TextView
127     android:id="@+id/textView3"
128     style="@style/EstiloTexto"
129     android:layout_width="wrap_content"
130     android:layout_height="wrap_content"
131     android:layout_marginStart="28dp"
132     android:layout_marginTop="396dp"
133     android:text="Quantidade"
134     android:textAllCaps="true"
135     android:textColor="#404000"
136     android:textSize="15sp"
137     app:layout_constraintStart_toStartOf="parent"
138     app:layout_constraintTop_toTopOf="parent"
139     tools:ignore="HardcodedText,MissingConstraints" />
140
141 <TextView
142     android:id="@+id/textView2"
143     style="@style/EstiloTexto"
144     android:layout_width="wrap_content"
145     android:layout_height="wrap_content"
146     android:layout_marginStart="28dp"
147     android:layout_marginTop="308dp"
148     android:text="Opcionais"
149     android:textAllCaps="true"
150     android:textColor="#404000"
151     android:textSize="15sp"
152     app:layout_constraintStart_toStartOf="parent"
153     app:layout_constraintTop_toTopOf="parent"
154     tools:ignore="HardcodedText,MissingConstraints" />
155
156 <EditText
157     android:id="@+id/numQuan"
158     android:layout_width="63dp"
159     android:layout_height="42dp"
160     android:layout_marginStart="88dp"
161     android:layout_marginTop="440dp"
162     android:background="#ffffff"
163     android:ems="10"
164     android:inputType="number"
165     android:text="0"
166     android:textAlignment="center"
167     android:textColor="#000000"
168     android:textSize="20sp"
169     app:layout_constraintStart_toStartOf="parent"
170     app:layout_constraintTop_toTopOf="parent"
171     tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,SpeakableTextPresentCheck,TouchTargetSizeCheck" />
```

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activity_main.xml x MainActivity.java x themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
139
140
141 <TextView
142     android:id="@+id/textView2"
143     style="@style/EstiloTexto"
144     android:layout_width="wrap_content"
145     android:layout_height="wrap_content"
146     android:layout_marginStart="28dp"
147     android:layout_marginTop="308dp"
148     android:text="Opcionais"
149     android:textAllCaps="true"
150     android:textColor="#404000"
151     android:textSize="15sp"
152     app:layout_constraintStart_toStartOf="parent"
153     app:layout_constraintTop_toTopOf="parent"
154     tools:ignore="HardcodedText,MissingConstraints" />
155
156 <EditText
157     android:id="@+id/numQuan"
158     android:layout_width="63dp"
159     android:layout_height="42dp"
160     android:layout_marginStart="88dp"
161     android:layout_marginTop="440dp"
162     android:background="#ffffff"
163     android:ems="10"
164     android:inputType="number"
165     android:text="0"
166     android:textAlignment="center"
167     android:textColor="#000000"
168     android:textSize="20sp"
169     app:layout_constraintStart_toStartOf="parent"
170     app:layout_constraintTop_toTopOf="parent"
171     tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,SpeakableTextPresentCheck,TouchTargetSizeCheck" />
```

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activity_main.xml x MainActivity.java themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
156 <EditText
157     android:id="@+id/numQuan"
158     android:layout_width="63dp"
159     android:layout_height="42dp"
160     android:layout_marginStart="88dp"
161     android:layout_marginTop="440dp"
162     android:background="#ffffff"
163     android:ems="10"
164     android:inputType="number"
165     android:text="0"
166     android:textAlignment="center"
167     android:textColor="#000000"
168     android:textSize="20sp"
169     app:layout_constraintStart_toStartOf="parent"
170     app:layout_constraintTop_toTopOf="parent"
171     tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,SpeakableTextPresentCheck,TouchTargetSizeCheck" />
172
173 <Button
174     android:id="@+id/btnMai"
175     style="@style/Widget.MaterialComponents.Button"
176     android:layout_width="54dp"
177     android:layout_height="42dp"
178     android:layout_marginStart="158dp"
179     android:layout_marginTop="440dp"
180     android:backgroundTint="#fbac1b"
181     android:onClick="soma"
182     android:text="+"
183     android:textColor="#ffffff"
184     android:textSize="20sp"
185     android:textStyle="bold"
186     app:layout_constraintStart_toStartOf="parent"
187     app:layout_constraintTop_toTopOf="parent"
188     tools:ignore="HardcodedText,MissingConstraints,TextContrastCheck,TouchTargetSizeCheck,TouchTargetSizeCheck" />
HamburgueriaZ > app > src > main > res > layout > activity_main.xml 2:1 LF UTF-8 4 spaces
```

```
activity_main.xml x MainActivity.java themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
173 <Button
174     android:id="@+id/btnMai"
175     style="@style/Widget.MaterialComponents.Button"
176     android:layout_width="54dp"
177     android:layout_height="42dp"
178     android:layout_marginStart="158dp"
179     android:layout_marginTop="440dp"
180     android:backgroundTint="#fbac1b"
181     android:onClick="soma"
182     android:text="+"
183     android:textColor="#ffffff"
184     android:textSize="20sp"
185     android:textStyle="bold"
186     app:layout_constraintStart_toStartOf="parent"
187     app:layout_constraintTop_toTopOf="parent"
188     tools:ignore="HardcodedText,MissingConstraints,TextContrastCheck,TouchTargetSizeCheck,TouchTargetSizeCheck" />
189
190 <Button
191     android:id="@+id/btnMen"
192     style="@style/Widget.MaterialComponents.Button"
193     android:layout_width="54dp"
194     android:layout_height="42dp"
195     android:layout_marginStart="28dp"
196     android:layout_marginTop="440dp"
197     android:backgroundTint="#fbac1b"
198     android:onClick="subtrair"
199     android:text="-"
200     android:textColor="#ffffff"
201     android:textSize="20sp"
202     android:textStyle="bold"
203     app:layout_constraintStart_toStartOf="parent"
204     app:layout_constraintTop_toTopOf="parent"
205     tools:ignore="HardcodedText,MissingConstraints,TextContrastCheck,TouchTargetSizeCheck,TouchTargetSizeCheck" />
HamburgueriaZ > app > src > main > res > layout > activity_main.xml 2:1 LF UTF-8 4 spaces
```

```
activity_main.xml x MainActivity.java themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
189
190
191 <Button
192     android:id="@+id/btnMen"
193     style="@style/Widget.MaterialComponents.Button"
194     android:layout_width="54dp"
195     android:layout_height="42dp"
196     android:layout_marginStart="28dp"
197     android:layout_marginTop="440dp"
198     android:backgroundTint="#fbac1b"
199     android:onClick="subtrair"
200     android:text="-"
201     android:textColor="#ffffff"
202     android:textSize="20sp"
203     android:textStyle="bold"
204     app:layout_constraintStart_toStartOf="parent"
205     app:layout_constraintTop_toTopOf="parent"
206     tools:ignore="HardcodedText,MissingConstraints,TouchTargetSizeCheck,TextContrastCheck" />
207
208 <TextView
209     android:id="@+id/textView4"
210     style="@style/EstiloText"
211     android:layout_width="wrap_content"
212     android:layout_height="wrap_content"
213     android:layout_marginStart="28dp"
214     android:layout_marginTop="480dp"
215     android:text="Resumo do Pedido"
216     android:textAllCaps="true"
217     android:textColor="#404000"
218     android:textSize="15sp"
219     app:layout_constraintStart_toStartOf="parent"
220     app:layout_constraintTop_toTopOf="parent"
221     tools:ignore="HardcodedText,MissingConstraints" />
```

```
activity_main.xml x MainActivity.java themes.xml
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
207
208 <TextView
209     android:id="@+id/textView4"
210     style="@style/EstiloText"
211     android:layout_width="wrap_content"
212     android:layout_height="wrap_content"
213     android:layout_marginStart="28dp"
214     android:layout_marginTop="480dp"
215     android:text="Resumo do Pedido"
216     android:textAllCaps="true"
217     android:textColor="#404000"
218     android:textSize="15sp"
219     app:layout_constraintStart_toStartOf="parent"
220     app:layout_constraintTop_toTopOf="parent"
221     tools:ignore="HardcodedText,MissingConstraints" />
222
223 <EditText
224     android:id="@+id/txtRes"
225     android:layout_width="281dp"
226     android:layout_height="47dp"
227     android:layout_marginStart="28dp"
228     android:layout_marginTop="528dp"
229     android:background="#ffffff"
230     android:editable="false"
231     android:ems="10"
232     android:focusable="false"
233     android:hint="Preço Total"
234     android:text="R$ 0,00"
235     android:textColor="#000000"
236     android:textIsSelectable="false"
237     app:layout_constraintStart_toStartOf="parent"
238     app:layout_constraintTop_toTopOf="parent"
239     tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,TouchTargetSizeCheck" />
```



```

2      <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
207      <TextView
214          android:text="Resumo do Pedido"
215          android:textAllCaps="true"
216          android:textColor="#404000"
217          android:textSize="15sp"
218          app:layout_constraintStart_toStartOf="parent"
219          app:layout_constraintTop_toTopOf="parent"
220          tools:ignore="HardcodedText,MissingConstraints" />
221
222      <EditText
223          android:id="@+id/txtRes"
224          android:layout_width="281dp"
225          android:layout_height="47dp"
226          android:layout_marginStart="28dp"
227          android:layout_marginTop="528dp"
228          android:background="#ffffff"
229          android:editable="false"
230          android:ems="10"
231          android:focusable="false"
232          android:hint="Preço Total"
233          android:text="R$ 0,00"
234          android:textColor="#000000"
235          android:textIsSelectable="false"
236          app:layout_constraintStart_toStartOf="parent"
237          app:layout_constraintTop_toTopOf="parent"
238          tools:ignore="Autofill,HardcodedText,LabelFor,MissingConstraints,TouchTargetSizeCheck" />
239
240  </androidx.constraintlayout.widget.ConstraintLayout>

```

HamburgueriaZ > app > src > main > res > layout > activity_main.xml 201:32 LF UTF-8 4 spaces

```

1  <resources xmlns:tools="http://schemas.android.com/tools">
2      <!-- Base application theme. -->
3      <style name="Base.Theme.HamburgueriaZ" parent="Theme.Material3.DayNight.NoActionBar">
4          <!-- Customize your light theme here. -->
5          <!-- <item name="colorPrimary">@color/my_light_primary</item> -->
6      </style>
7
8      <style name="Theme.HamburgueriaZ" parent="Base.Theme.HamburgueriaZ" />
9      <style name="EstiloTexto">
10         <item name="android:layout_width">wrap_content</item>
11         <item name="android:layout_height">wrap_content</item>
12         <item name="android:gravity">center_vertical</item>
13         <item name="android:textAllCaps">true</item>
14         <item name="android:textSize">15sp</item>
15         <item name="android:paddingTop">16dp</item>
16         <item name="android:paddingBottom">16dp</item>
17     </style>
18 </resources>

```

HamburgueriaZ > app > src > main > res > values > themes.xml 2:5 LF UTF-8 4 spaces

The screenshot shows the Android Studio interface with the file `MainActivity.java` open. The editor displays the following code:

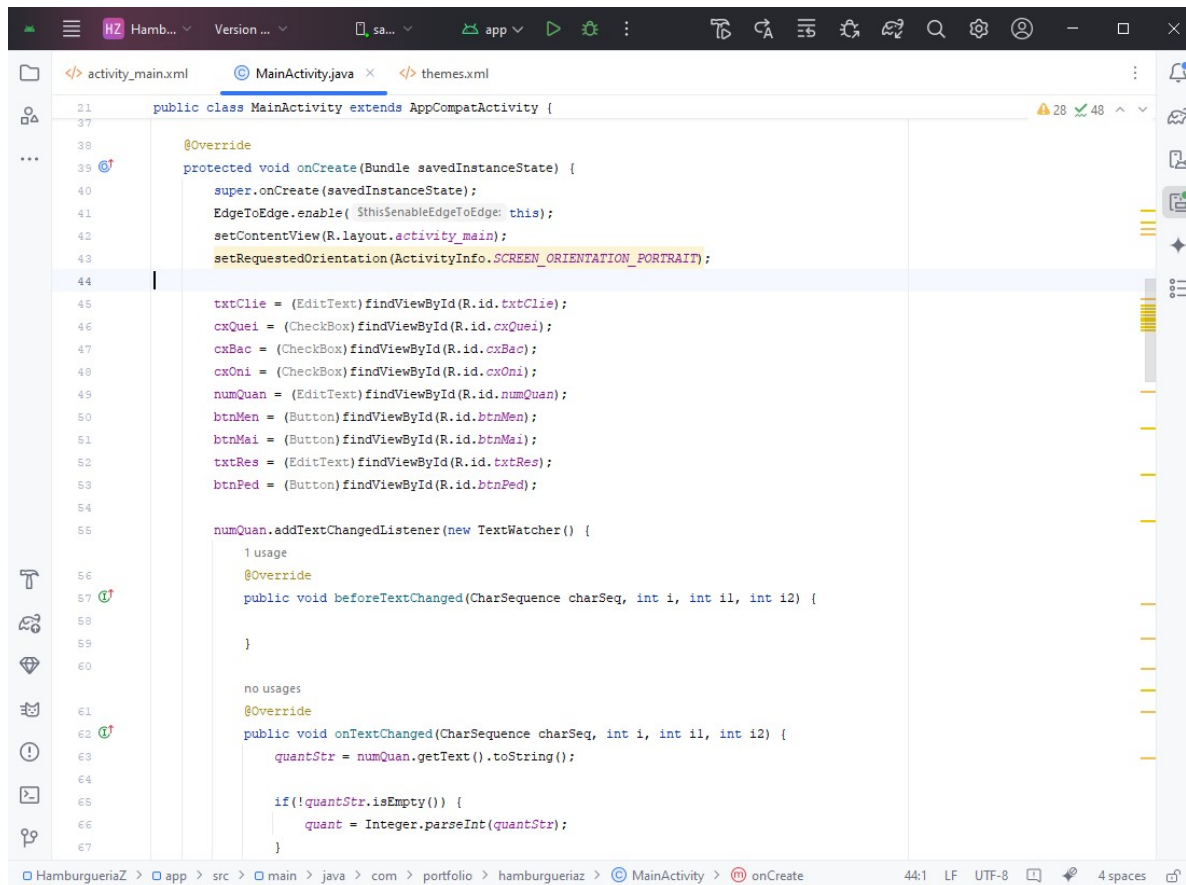
```
1 package com.portfolio.hamburgueriaz;
2
3 import android.content.ActivityNotFoundException;
4 import android.content.Intent;
5 import android.content.pm.ActivityInfo;
6 import android.os.Bundle;
7 import android.text.Editable;
8 import android.text.TextWatcher;
9 import android.view.View;
10 import android.widget.Button;
11 import android.widget.CompoundButton;
12 import android.widget.EditText;
13 import android.widget.CheckBox;
14 import androidx.activity.EdgeToEdge;
15 import androidx.appcompat.app.AlertDialog;
16 import androidx.appcompat.app.AppCompatActivity;
17 import androidx.core.graphics.Insets;
18 import androidx.core.view.ViewCompat;
19 import androidx.core.view.WindowInsetsCompat;
20
21 public class MainActivity extends AppCompatActivity {
22     private EditText txtCli;
23     private CheckBox cxQuei, cxBac, cxOni;
24     private EditText numQuan;
25     private Button btnMen, btnMai;
26     private EditText txtRes;
27     private Button btnPed;
```

The bottom status bar shows the file path: `HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > enviarPedido`, line 185, LF, UTF-8, 4 spaces.

The screenshot shows the same Android Studio interface, but the code in `MainActivity.java` has been extended with static variables and the start of the `onCreate` method:

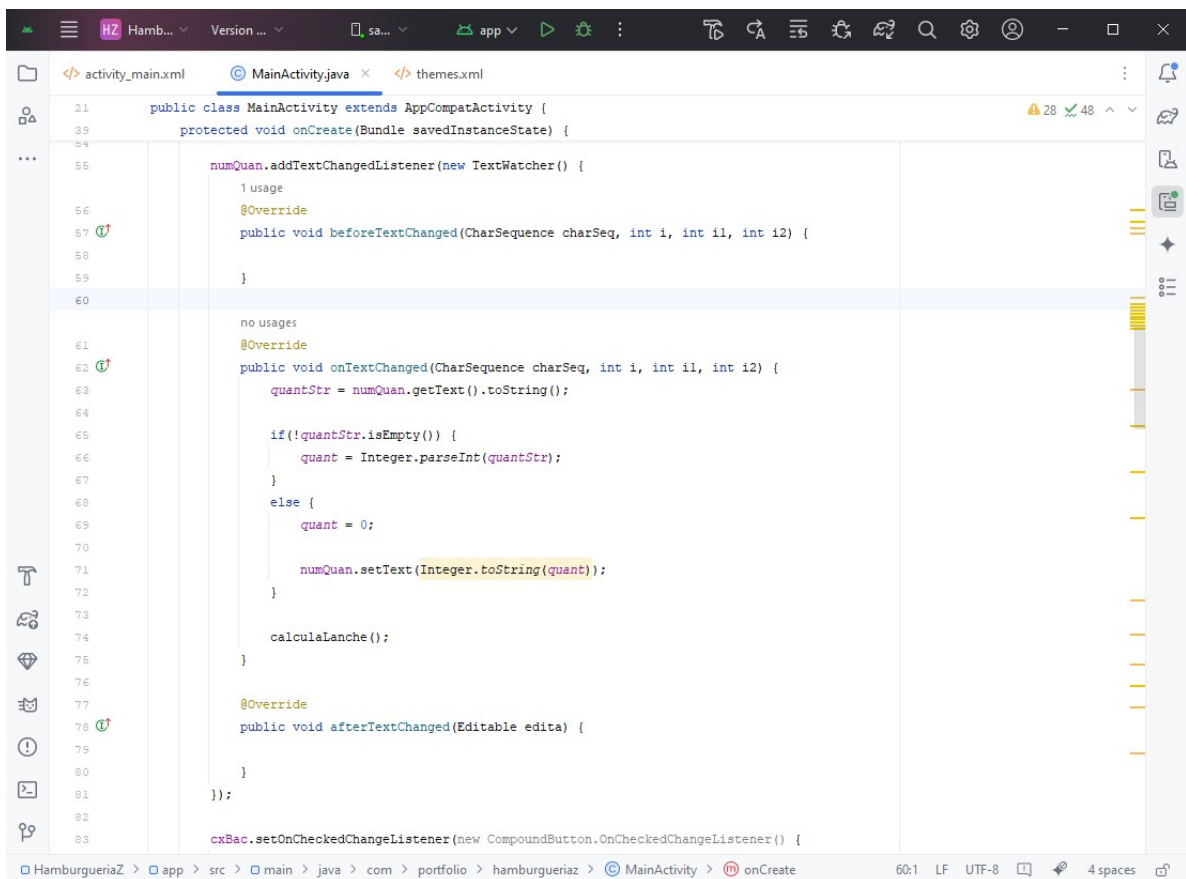
```
28     private static String cliente = "";
29     private static String resumoPedido = "";
30     private static String quantStr = "";
31     private static int quant = 0;
32     private static final float PRECO_LANCHE = 20.00f;
33     private static float bacon = 0.00f;
34     private static float queijo = 0.00f;
35     private static float onions = 0.00f;
36     private static float precoFinal = 0.00f;
37
38     @Override
39     protected void onCreate(Bundle savedInstanceState) {
```

The bottom status bar shows the file path: `HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > enviarPedido`, line 185, LF, UTF-8, 4 spaces.



```
21 public class MainActivity extends AppCompatActivity {
37
38     @Override
39     protected void onCreate(Bundle savedInstanceState) {
40         super.onCreate(savedInstanceState);
41         EdgeToEdge.enable(this);
42         setContentView(R.layout.activity_main);
43         setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_PORTRAIT);
44
45         txtClic = (EditText) findViewById(R.id.txtClic);
46         cxQuei = (CheckBox) findViewById(R.id.cxQuei);
47         cxBac = (CheckBox) findViewById(R.id.cxBac);
48         cxOni = (CheckBox) findViewById(R.id.cxOni);
49         numQuan = (EditText) findViewById(R.id.numQuan);
50         btnMen = (Button) findViewById(R.id.btnMen);
51         btnMai = (Button) findViewById(R.id.btnMai);
52         txtRes = (EditText) findViewById(R.id.txtRes);
53         btnPed = (Button) findViewById(R.id.btnPed);
54
55         numQuan.addTextChangedListener(new TextWatcher() {
56             1 usage
57             @Override
58             public void beforeTextChanged(CharSequence charSeq, int i, int il, int i2) {
59             }
60
61             no usages
62             @Override
63             public void onTextChanged(CharSequence charSeq, int i, int il, int i2) {
64                 quantStr = numQuan.getText().toString();
65
66                 if(!quantStr.isEmpty()) {
67                     quant = Integer.parseInt(quantStr);
68                 }
69             }
70         });
```

HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > onCreate 44:1 LF UTF-8 4 spaces



```
55         numQuan.addTextChangedListener(new TextWatcher() {
56             1 usage
57             @Override
58             public void beforeTextChanged(CharSequence charSeq, int i, int il, int i2) {
59             }
60
61             no usages
62             @Override
63             public void onTextChanged(CharSequence charSeq, int i, int il, int i2) {
64                 quantStr = numQuan.getText().toString();
65
66                 if(!quantStr.isEmpty()) {
67                     quant = Integer.parseInt(quantStr);
68                 }
69                 else {
70                     quant = 0;
71                     numQuan.setText(Integer.toString(quant));
72                 }
73
74                 calculaLanche();
75             }
76
77             @Override
78             public void afterTextChanged(Editable edita) {
79             }
80         });
81
82
83         cxBac.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
```

HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > onCreate 60:1 LF UTF-8 4 spaces

```

HZ Hamb... Version ... sa... app
activity_main.xml MainActivity.java themes.xml
21 public class MainActivity extends AppCompatActivity {
39     protected void onCreate(Bundle savedInstanceState) {
...
61     };
62
63     cxBac.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
64         2 usages
65         @Override
66         public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
67             if (isChecked) {
68                 bacon = 2.00f;
69             }
70             else {
71                 bacon = 0.00f;
72             }
73             calculaLanche();
74         }
75     });
76
77     cxQuei.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
78         2 usages
79         @Override
80         public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
81             if (isChecked) {
82                 queijo = 2.00f;
83             }
84             else {
85                 queijo = 0.00f;
86             }
87             calculaLanche();
88         }
89     });
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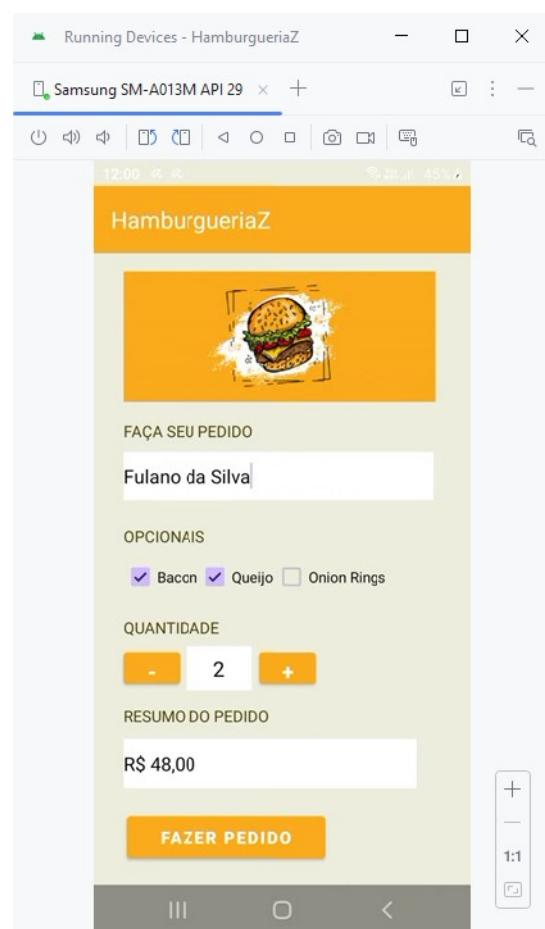
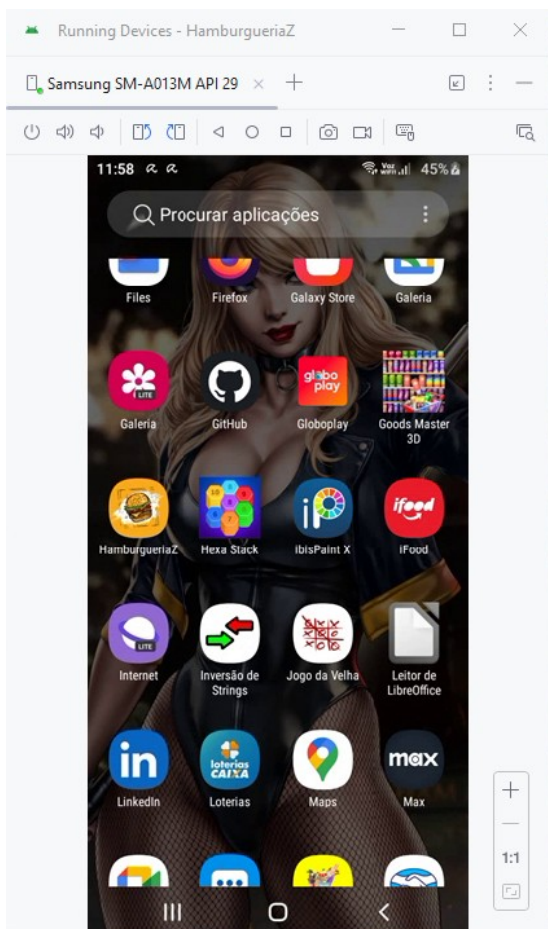
```
activity_main.xml  MainActivity.java  themes.xml
21 public class MainActivity extends AppCompatActivity {
131
132     1 usage
133     public void subtrair(View v) {
134         if(quant > 0) {
135             quant--;
136             numQuan.setText(Integer.toString(quant));
137             this.calculaLanche();
138         }
139     }
140 }
141
142     1 usage
143     public void somar(View v) {
144         if(quant < 100) {
145             quant++;
146             numQuan.setText(Integer.toString(quant));
147             this.calculaLanche();
148         }
149     }
150 }
151
152     6 usages
153     public void calculaLanche() {
154         precoFinal = (PRECO_LANCHE + bacon + queijo + onions) * quant;
155         txtRes.setText(String.format("R$ %.2f", precoFinal).replace( target: ".", replacement: ","));
156     }
157
158     1 usage
159     public void enviarPedido(View v) {
160         cliente = txtCli.getText().toString().trim();
161     }
162 }
```

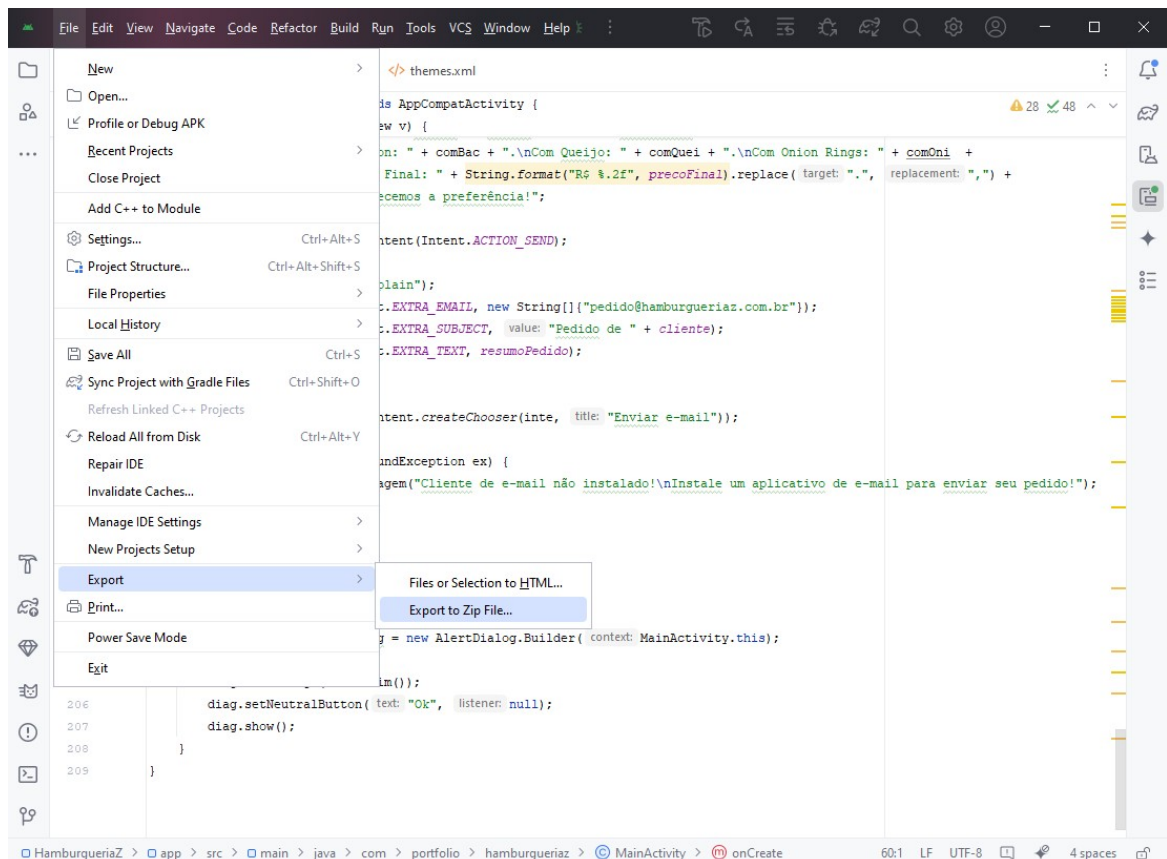
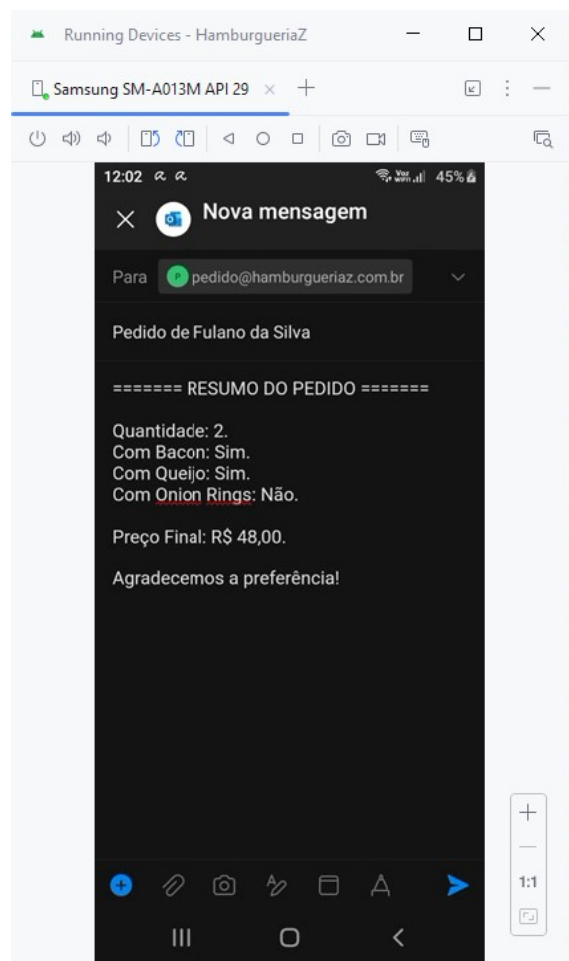
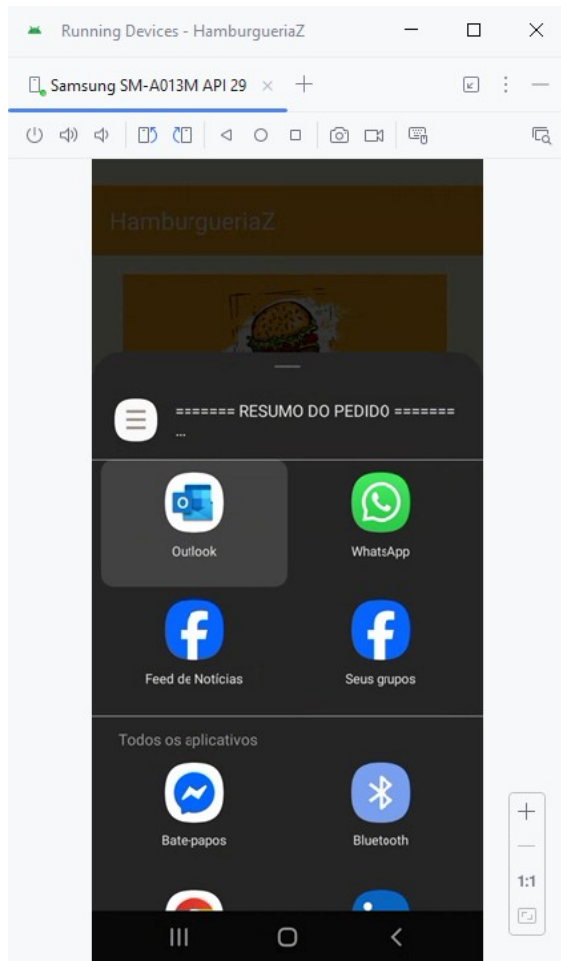
HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > onCreate 60:1 LF UTF-8 4 spaces

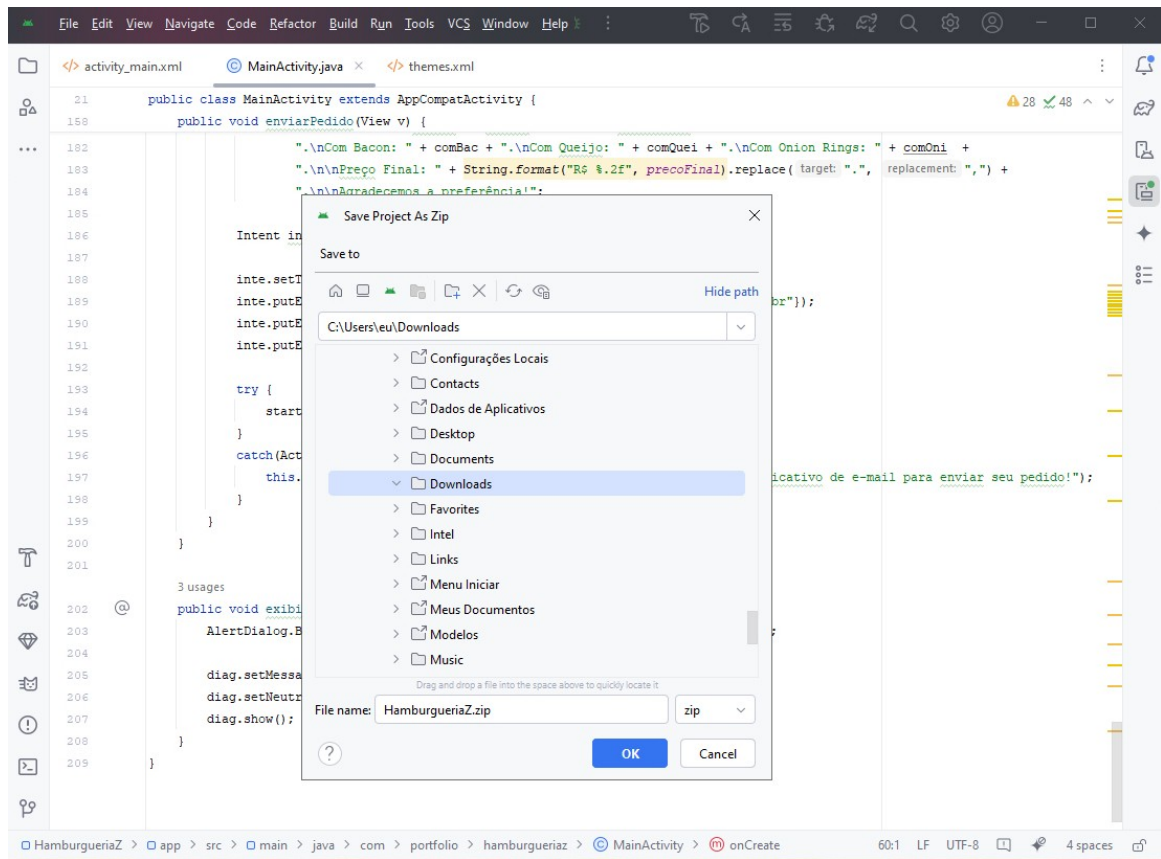
```
activity_main.xml  MainActivity.java  themes.xml
21 public class MainActivity extends AppCompatActivity {
157
158     1 usage
159     public void enviarPedido(View v) {
160         cliente = txtCli.getText().toString().trim();
161         quantStr = numQuan.toString().trim();
162         String comBac, comQuei, comOni = "";
163
164         if(cliente.isEmpty()) {
165             txtCli.setError("Esse Campo não Pode Ficar Vazio!");
166         }
167         else if(quantStr.isEmpty()) {
168             quant = 0;
169             numQuan.setText(Integer.toString(quant));
170         }
171         else if(quant < 1) {
172             this.exibirMensagem("Escolha uma quantidade de lanches maior do que zero!");
173         }
174         else if(quant > 100) {
175             this.exibirMensagem("O máximo de lanches que pode se fazer por pedido é de 100!");
176         }
177         else {
178             comBac = cxBac.isChecked() ? "Sim" : "Não";
179             comQuei = cxQuei.isChecked() ? "Sim" : "Não";
180             comOni = cxOni.isChecked() ? "Sim" : "Não";
181
182             resumoPedido = "===== RESUMO DO PEDIDO =====\n\nQuantidade: " + quant +
183                 "\n\nCom Bacon: " + comBac + "\n\nCom Queijo: " + comQuei + "\n\nCom Onion Rings: " + comOni +
184                 "\n\nPreço Final: " + String.format("R$ %.2f", precoFinal).replace( target: ".", replacement: ",") +
185                 "\n\nAgradecemos a preferência!";
186
187             Intent inte = new Intent(Intent.ACTION_SEND);
188             inte.setType("text/plain");
189         }
190     }
191 }
```

HamburgueriaZ > app > src > main > java > com > portfolio > hamburgueriaz > MainActivity > onCreate 60:1 LF UTF-8 4 spaces


```
activity_main.xml MainActivity.java themes.xml
21 public class MainActivity extends AppCompatActivity {
158 public void enviarPedido(View v) {
182     "\nCom Bacon: " + comBac + "\nCom Queijo: " + comQuei + "\nCom Onion Rings: " + comOni +
183     "\n\nPreço Final: " + String.format("R$ %.2f", precoFinal).replace("target: ", "replacement: ", ",") +
184     "\n\nAgradecemos a preferência!";
185
186     Intent inte = new Intent(Intent.ACTION_SEND);
187
188     inte.setType("text/plain");
189     inte.putExtra(Intent.EXTRA_EMAIL, new String[]{"pedido@hamburgueriaz.com.br"});
190     inte.putExtra(Intent.EXTRA_SUBJECT, value: "Pedido de " + cliente);
191     inte.putExtra(Intent.EXTRA_TEXT, resumoPedido);
192
193     try {
194         startActivity(Intent.createChooser(inte, title: "Enviar e-mail"));
195     }
196     catch (ActivityNotFoundException ex) {
197         this.exibirMensagem("Cliente de e-mail não instalado!\nInstale um aplicativo de e-mail para enviar seu pedido!");
198     }
199 }
200
201 3 usages
202 public void exibirMensagem(String mens) {
203     AlertDialog.Builder diag = new AlertDialog.Builder(context: MainActivity.this);
204
205     diag.setMessage(mens.trim());
206     diag.setNeutralButton(text: "Ok", listener: null);
207     diag.show();
208 }
209 }
```







3 CONCLUSÃO

Como eu já mexia com o Android Studio, não tive grandes dificuldades na tarefa. Já tinha tanto o Android Studio quanto o JDK instalados no meu computador, mas não consegui rodar o emulador do Google, por isso optei pela depuração direta no meu celular pelo USB. Utilizei um vídeo de referência para configurar algumas coisas, como o envio de e-mail (que não sabia como implementar até então), mas o estilo e as configurações procurei fazer da forma que eu já sabia e achava melhor para o aplicativo ficar mais personalizado.

REFERÊNCIAS

Mente Maker. **Portfólio de Desenvolvimento Mobile**. Youtube. Disponível em https://www.youtube.com/watch?v=8V_fvGtbOMk