EmailTyp.java

```
1 package Gastkomponente;
 3 import static Utilities.InvalidEmailException.throwNewInvalidEmailException;
 6 public final class EmailTyp {
      private String name;
      private String server;
10
      private String country;
11
12
      private EmailTyp(String name, String server, String country) throws InvalidEmailException {
13
          assertValidEmail(name, server, country);
14
          this.name = name;
15
          this.server = server;
16
          this.country = country;
17
18
19
      public static EmailTyp email(String name, String server, String country) throws
  InvalidEmailException {
20
          return new EmailTyp(name, server, country);
21
22
23
      public String name() {
24
          return this.name;
25
26
27
      public String server() {
```

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```
54
     }
55
56
57
      public int hashCode() {
58
          int acc = 0;
59
          for (byte b : this.toString().getBytes())
60
          long longBits = Double.doubleToLongBits(acc);
61
          return (int) (longBits ^ (longBits >>> 32));
62
63
64
65
66
      public boolean equals(Object obj) {
67
          if (this == obj)
68
              return true;
69
          if (!(obj instanceof EmailTyp))
70
              return false:
          EmailTyp temp = (EmailTyp) obj;
71
72
          return temp.name() == this.name() && temp.server() == this.server()
73
                  && temp.country() == country();
74
75
76
77
      public String toString() {
78
          return this.name() + "@" + this.server() + "." + country();
79
80}
```

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```
28
          return this.server;
29
30
31
      public String country() {
32
          return this.country;
33
34
35
      private void assertValidEmail(String name, String server, String country) throws
  InvalidEmailException {
              if (!validEmail(name, server, country))
37
                  throwNewInvalidEmailException();
38
      }
39
      private boolean validEmail(String name, String server, String country) {
41
          if (name.matches("[a-z]+") && server.matches("[a-z]+")
42
                  && country.matches("[a-z]+")) {
43
              return true;
44
45
          return false;
46
47
48
      public static EmailTyp emailConvertFromString(String plain) throws InvalidEmailException {
49
          String[] s = plain.split("(@1\\.)");
          String name = s[0];
50
51
          String server = s[1]:
          String domain = s[2];
52
          return EmailTyp.email(name, server, domain);
```

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