



Next let's see how the deposit type correlates with the cancellation status, we can see in the graph that clients who didn't make any deposit have more tendency to cancel their reservation. This makes sense too, people don't want to loose their deposits.

```
In [22]: deposit_type_data = df.groupby('deposit_type_cat')['is_cancelled'].describe()
data = list(deposit_type_data["count"])
labels = ["No Deposit",
          "Non Refund",
          "Refundable"]
colors = sns.color_palette("pastel")[10:5]
plt.figure(figsize=(12,12))
plt.pie(data, labels = labels, colors = colors, autopct='%1.2f%%')
plt.show()
```



Suggestions for next steps in analyzing this data

It would be interesting to evaluate how much rooms can the hotels oversell, if you kind of know how many of your clients are going to cancel their reservations, you could oversell some rooms and use your bussines in a more efficient way.