

Payment Processing with Stripe

Bug Fix for Payment Amount



Our App

The image shows a mobile application interface for a purchase. At the top, a white header bar displays the text "Review Your Order". Below this, a summary of the order details is shown:

- Total Quantity: 1
- Shipping: FREE
- Total Price: \$18.99

A red arrow points from the "Purchase" button at the bottom right of the summary to a large red callout box. The callout box contains the text "WHAT???" and "Off by .01".

To the right of the app screenshot, the word "Stripe" is written in a bold, lowercase font.

Below the app screenshot is a screenshot of the Stripe payment history. The heading "Payments" is displayed, followed by a table with the following data:

AMOUNT	DESCRIPTION
\$18.98 USD	Succeeded ✓ pi_3JipZpEBpPFwN9Nb0QII0hFg

JavaScript

The **number** datatype represents
a floating point number.

3.14, 5.3, 7.0 etc

JavaScript does NOT have
a native **int** datatype

Java

The **int** datatype represents
integer whole numbers

3, 5, 7 etc ...

JavaScript sent over a floating point number

**When the data makes it to Java Spring Boot backend,
the floating point number is truncated to a Java int**

JavaScript 1898.99999 is TRUNCATED to a Java int 1898

**The value of 1898 is passed to Stripe via Java Stripe API
(creating PaymentIntent)**

That is why Stripe has \$18.98

One possible solution

On JavaScript side, ROUND the number before sending

Math.round(1898.9999) ==> 1899.0

No issues with truncation when passed to Java

Gives us \$18.99 in Stripe as desired

File: checkout.component.ts

Replace

```
this.paymentInfo.amount = this.totalPrice*100;
```

With

```
this.paymentInfo.amount = Math.round(this.totalPrice*100);
```

Success!!!

Value matches shopping cart checkout

The screenshot shows the Stripe Payments dashboard with a list of transactions. A green callout box highlights the top transaction: **\$18.99 USD Succeeded ✓**. A red arrow points from the callout to the transaction details. The transaction details show: **Review Your Order**, **Total Quantity: 1**, **Shipping: FREE**, and **Total Price: \$18.99**.

AMOUNT	CUSTOMER	DATE
\$18.99 USD	pi_3Jy49	Nov 20, 7:26 PM
\$18.98 USD	pi_3Jy40	Nov 20, 7:34 PM
\$18.98 USD	pi_3Jy3s	Nov 20, 7:26 PM