

Invoice Calculation Logic

▼ 1. Objective

To explain how invoices are calculated for various payment scenarios:

- **Web/Android Payments**
- **Apple (App Store) Payments**
- **B2C Upgrades (Plan Upgrades)**

▼ 2. Key Invoice Fields (Row Level)

Field	Explanation
Plan Price	Price of the plan from the DB (<code>plan_price</code>).
Amount Paid	Actual money received from the user (<code>amount</code>).
Discount	Calculated as <code>Plan Price - Amount Paid</code> . (shown as positive value)
Net Price (before GST)	<code>Amount Paid / 1.18</code> (as our prices are inclusive of 18% GST).
GST (CGST/SGST/IGST)	<code>Amount Paid - Net Price</code> , split by user state.
HSN/SAC Code	GST classification code (HSN for physical, SAC for digital).
Quantity	Always 1.

▼ 3. Web/Android Purchases — Standard Case

Field	Example
Plan Price	₹5,000
Amount Paid	₹4,000
Discount	₹1,000
GST	Calculated on ₹4,000

▼ 4. Apple (App Store) Purchases — Special Case

Problem:

- Users pay `apple_plan_price` (higher).
- Invoice wrongly uses **our internal** `plan_price` (lower).
- Results in a **negative discount** on the invoice.

#	DESCRIPTION	HSN/SAC	QTY	PLAN PRICE	DISCOUNT	NET VALUE	SGST(9%)	CGST(9%)	IGST(18%)	AMOUNT
1	NEET SS Surgery	998431	1	42000	2900.0	38050.85	3424.58	3424.58	0	44900.0
Total										44900.0

Total In Words:
*Rupees Forty Four Thousand Nine Hundred And Zero
Paisa Only*

Current (Incorrect Behavior in Invoice):

Field	Value
Plan Price	₹42,000 (picked from internal <code>plan_price</code>)
Amount Paid	₹44,900 (<code>apple_plan_price</code>)
Discount	₹-2,900 (shown wrongly as +2,900)

Expected (Correct Behavior):

Field	Value
Plan Price	₹44,900 (<code>apple_plan_price</code>)
Amount Paid	₹44,900
Discount	0

▼ 5. B2C Upgrades — Special Case

Behavior:

- In B2C Plan Upgrades, **Plan Price is stored as ₹0 in DB.**
- The user pays **only the upgrade differential amount.**
- System calculates:

Bill To: Ganima Kaiway Bhawe
Place of Supply: Indore Madhya-Pradesh

Payment ID: pay_P5Zy59a3XT9JIP
Invoice Date: 04/10/2024

#	DESCRIPTION	HSN/SAC	QTY	PLAN PRICE	DISCOUNT	NET VALUE	SGST(9%)	CGST(9%)	IGST(18%)	AMOUNT
1	Add videos to your plan and unlock full access	998431	1	0	9999.0	8473.73	0	0	1525.27	9999.0

Total 9999.0

Total In Words:
**Rupees Nine Thousand Nine Hundred Ninety Nine And
Zero Paise Only**

What Happens Now (Incorrect):

Field	Example
Plan Price	₹0 (plan_price stored as 0 for B2C Upgrade)
Amount Paid	₹9,999 (actual paid amount)
Discount	-₹9,999 (incorrect: shown as +₹9,999 in invoice)

What Should Happen (Correct):

Field	Example
Plan Price	₹9,999 (should take amount as plan price for B2C Upgrade)
Amount Paid	₹9,999
Discount	₹0 (no discount applied in B2C Upgrade)

GST and Tax calculated on ₹3,000 - which is correct.

▼ 6. Add-ons & Shipping

- Each **addon and shipping charge** appears as a separate row.

- No discount applied to these rows.
- GST is calculated separately for each based on type (HSN/SAC).

▼ 7. Current Gaps to Fix

- **Apple Plan Price**
- **B2C Upgrade Logic**
- **Negative Discounts**

Problem:

When **Plan Price < Amount Paid**, the calculated discount becomes negative(shown as positive), which is incorrect and misleading in the invoice.

Recommended Solution:

In such cases, **Plan Price should be set equal to Amount Paid** to avoid negative discount

Example:

Current (Incorrect Behaviour):

Field	Value
Plan Price	₹0 (B2C Upgrade case — stored as 0 in DB)
Amount Paid	₹9,999
Discount	₹-9,999 (shown wrongly as +9,999)

Expected (Correct Behaviour):

Field	Value
Plan Price	₹9,999 (set equal to Amount Paid)
Amount Paid	₹9,999
Discount	₹0 (no discount)