

```
import Stripe from 'stripe';

import { stripe } from '../stripe/config';

import { Tables } from '@types_db';

import { supabaseAdmin } from '../supabase/admin';

async function findUnpaidInvoice(
  transaction: Tables<'swarm_cloud_billing_transcations'>,
) {
  if (!transaction.payment_successful) {
    const invoice = await stripe.invoices.retrieve(
      transaction.invoice_id as string,
    );
    if (invoice.status === 'open') {
      return invoice;
    }
  }
}
```

```
async function attemptAutomaticCharge(invoiceId: string) {
  try {
    const invoice = await stripe.invoices.retrieve(invoiceId);

    // Check if invoice is still open (unpaid)
    if (invoice.status !== 'open') {
      console.log('Invoice already paid:', invoiceId);
      return true;
    }
  }
}
```

```
}
```

```
const customerId = invoice?.customer as string;
```

```
const customer = (await stripe.customers.retrieve(  
  customerId,  
  )) as Stripe.Customer;
```

```
if (!customer || !customer.invoice_settings.default_payment_method) {  
  console.error('No default payment method found for invoice:', invoiceId);  
  return false;  
}
```

```
// Attempt charge with the default payment method
```

```
const paymentResult = await stripe.invoices.pay(invoiceId);
```

```
if (paymentResult.paid) {  
  console.log('Invoice successfully charged automatically:', invoiceId);  
  const { error: updateError } = await supabaseAdmin  
    .from('swarm_cloud_billing_transactions')  
    .update({ payment_successful: true })  
    .eq('invoice_id', invoiceId);
```

```
if (updateError) {  
  console.error('Error updating billing transaction:', updateError);  
}
```

```

    return true;
  } else {
    console.error(
      'Failed to charge invoice automatically:',
      invoiceId,
      paymentResult.last_finalization_error?.message,
    );

    const sendInvoiceResult = await stripe.invoices.sendInvoice(invoiceId);

    if (sendInvoiceResult.last_finalization_error) {
      console.error(
        'Error sending invoice for manual payment:',
        sendInvoiceResult.last_finalization_error?.message,
      );
    }

    return false;
  }
} catch (error) {
  console.error('Error attempting automatic charge:', error);
  return false;
}
}

```

```

async function getLatestBillingTransaction(userId: string): Promise<{

```

```
status: number;

message: string;

transaction: Tables<'swarm_cloud_billing_transcations'> | null;

}> {

  if (!userId) {

    return {

      status: 400,

      message: 'User session not found',

      transaction: null,

    };

  }

}
```

```
const { data: latestTransaction, error } = await supabaseAdmin

  .from('swarm_cloud_billing_transcations')

  .select('*')

  .eq('user_id', userId)

  .order('created_at', { ascending: false })

  .limit(1)

  .single();
```

```
if (error) {

  if (error.code === 'PGRST116') {

    return {

      status: 200,

      message: 'No billing transactions found',

      transaction: null,
```

```
};  
  
}  
  
console.error('Error fetching latest billing transaction:', error);  
  
return {  
  status: 400,  
  message: 'Error fetching latest billing transaction',  
  transaction: null,  
};  
}
```

```
return {  
  status: 200,  
  message: 'Success',  
  transaction: latestTransaction ?? null,  
};  
}
```

```
export {  
  findUnpaidInvoice,  
  attemptAutomaticCharge,  
  getLatestBillingTransaction,  
};
```