

Admin Credit Management Guide

Overview

Your Roblox tool already has a complete admin credit management system! This guide explains how to use it to manually add credits to customer accounts (perfect for demo accounts or promotional credits).

What Already Exists

1. Admin API Endpoint (`/api/admin/credits/add`)

- **Location:** `/src/app/api/admin/credits/add/route.ts`
- **Method:** POST
- **Authentication:** Requires SUPER_ADMIN or CUSTOMER_ADMIN role
- **Features:**
 - Validates all inputs (amount, customer ID, description)
 - Enforces maximum limit of 10,000 credits per transaction
 - Records transactions with special admin payment IDs
 - Logs admin actions with username for audit purposes
 - Returns detailed transaction information

2. Database Schema

Your database already has all necessary tables:

- **customer_credits** : Stores credit balances for each customer
- **credit_transactions** : Records all credit additions/usage with full audit trail
- **customers** : Customer information
- Transaction constraints ensure data integrity

What We've Added


1. Enhanced Customer Management UI

We've updated the admin dashboard's Customer Management component to include:

Credit Display

- **Credit Balance:** Shows current credits for each customer
- **Total Purchased:** Lifetime credits purchased
- **Total Used:** Lifetime credits consumed
- All displayed in the Customers table for easy viewing

Add Credits Button

- Green “ Add Credits” button for each customer
- Opens a modal dialog for easy credit addition
- Shows current balance before adding
- Input validation and helpful hints

Add Credits Modal Features

- Customer name and current balance display
- Amount input (1-10,000 credits)
- Description field for audit trail
- Warning about admin credit addition
- Success confirmation with new balance
- Error handling with detailed messages

2. Updated Database View

We've enhanced the `customer_stats` view to include:

- `credit_balance` : Current credit balance
- `total_credits_purchased` : Total credits purchased
- `total_credits_used` : Total credits used
- Plus previously missing fields: `contact_email` , `max_users` , `logo_url`

3. Migration Script

- **File:** `/database/migrations/013_add_credits_to_customer_stats.sql`
- **Purpose:** Updates the database view to show credit information
- **Documentation:** `/database/migrations/APPLY_MIGRATION_013.md`



How to Deploy

Step 1: Run the Database Migration

You have three options:

Option A: Using Node.js Script (Recommended)

```
cd /home/ubuntu/roblox-tool
node scripts/run-migration-013.js
```

Option B: Direct psql

```
psql -U your_username -d your_database -f database/migrations/
013_add_credits_to_customer_stats.sql
```

Option C: Copy-Paste in psql

```
# Connect to your database
psql -U your_username -d your_database

# Then paste the SQL from the migration file
```

Step 2: Verify the Migration

```
-- Check if the view has the new columns
SELECT column_name, data_type
FROM information_schema.columns
WHERE table_name = 'customer_stats'
AND column_name IN ('credit_balance', 'total_credits_purchased', 'total_credits_used')
;

-- Test the view
SELECT id, name, credit_balance, total_credits_purchased, total_credits_used
FROM customer_stats
LIMIT 5;
```

Step 3: Restart Your Application (if needed)

```
# If using PM2
pm2 restart roblox-tool

# If using Next.js dev server
# Just stop and restart: npm run dev

# If using Docker
docker-compose restart
```



How to Use

Adding Credits to a Customer Account

1. **Log in** as a super admin to your application
 - URL: `https://your-domain.com/admin` (or `/admin` on your deployment)
2. **Navigate to the Customers tab**
 - You'll see the admin dashboard
 - Click on the "Customers" tab
3. **View Customer Information**
 - You'll see a table with all customers
 - Each row shows:
 - Customer name and ID
 - Status (Active/Inactive)
 - User count
 - **Credit balance** (new!)
 - Total searches
 - Created date
 - Actions
4. **Click "🚩 Add Credits"**
 - Find the customer you want to add credits to
 - Click the green "🚩 Add Credits" button in the Actions column
5. **Fill in the Modal**
 - **Amount:** Enter the number of credits (1-10,000)

- **Description:** Enter a reason (e.g., “Demo account credits”, “Promotional credits for Q4 campaign”)
- Review the current balance shown at the top

6. Submit

- Click “Add Credits”
- You’ll see a success message with the new balance
- The customer table will refresh automatically

Example Use Cases

Demo Account

Amount: 100
Description: Demo account credits **for** prospect evaluation

Promotional Credits

Amount: 500
Description: Q1 2024 promotional credits - New customer bonus

Compensation

Amount: 50
Description: Service interruption compensation - Incident #1234

Testing

Amount: 1000
Description: Internal testing credits - QA Team

Audit Trail

Every credit addition is recorded in the `credit_transactions` table with:

- Transaction ID
- Customer ID
- User ID (who added the credits)
- Amount added
- Balance before and after
- Description (includes admin username)
- Payment ID (format: `MANUAL_ADMIN_{userId}_{timestamp}`)
- Timestamp

Viewing Transaction History

Query the database to see all admin credit additions:

```
-- All admin credit additions
SELECT
  ct.id,
  ct.created_at,
  c.name as customer_name,
  u.username as admin_user,
  ct.amount,
  ct.balance_before,
  ct.balance_after,
  ct.description
FROM credit_transactions ct
JOIN customers c ON ct.customer_id = c.id
JOIN users u ON ct.user_id = u.id
WHERE ct.payment_id LIKE 'MANUAL_ADMIN_%'
ORDER BY ct.created_at DESC;
```

```
-- Admin credits for a specific customer
SELECT
  ct.created_at,
  u.username as added_by,
  ct.amount,
  ct.description
FROM credit_transactions ct
JOIN users u ON ct.user_id = u.id
WHERE ct.customer_id = YOUR_CUSTOMER_ID
AND ct.payment_id LIKE 'MANUAL_ADMIN_%'
ORDER BY ct.created_at DESC;
```



Security Features

Access Control

- **SUPER_ADMIN**: Can add credits to any customer
- **CUSTOMER_ADMIN**: Can only add credits to their own customer account
- All other users: No access (403 Forbidden)

Validation

- Amount must be positive
- Amount cannot exceed 10,000 per transaction
- Description is required
- Customer must exist

Audit Logging

- Every action is logged with admin username
- Transaction ID for tracking
- Timestamps for all actions
- Cannot be deleted (data integrity)



API Usage (Alternative Method)

If you prefer to use the API directly (e.g., from scripts or other tools):

Endpoint

```
POST /api/admin/credits/add
```

Headers

```
Content-Type: application/json  
Cookie: next-auth.session-token=YOUR_SESSION_TOKEN
```

Request Body

```
{  
  "customerId": 1,  
  "amount": 100,  
  "description": "Demo account credits"  
}
```

Response (Success)

```
{  
  "success": true,  
  "message": "Credits added successfully",  
  "transaction": {  
    "id": 123,  
    "customerId": 1,  
    "amount": 100,  
    "balanceBefore": 0,  
    "balanceAfter": 100,  
    "description": "[ADMIN] Demo account credits (Added by: admin)",  
    "createdAt": "2024-12-01T10:30:00.000Z"  
  }  
}
```

Response (Error)

```
{  
  "error": "Forbidden - Admin access required",  
  "details": "You must be a SUPER_ADMIN or CUSTOMER_ADMIN to add credits"  
}
```

Example using curl

```
curl -X POST https://your-domain.com/api/admin/credits/add \  
-H "Content-Type: application/json" \  
-H "Cookie: next-auth.session-token=YOUR_SESSION_TOKEN" \  
-d '{  
  "customerId": 1,  
  "amount": 100,  
  "description": "Demo account credits"  
}'
```

Example using Postman/Insomnia

1. Create a new POST request
2. URL: `https://your-domain.com/api/admin/credits/add`
3. Headers: `Content-Type: application/json`
4. Body (JSON):


```
json
{
  "customerId": 1,
  "amount": 100,
  "description": "Demo account credits"
}
```
5. Make sure you're logged in (cookies will be sent automatically)



Monitoring

Check Customer Credit Balances

```
SELECT
  c.id,
  c.name,
  COALESCE(cc.balance, 0) as balance,
  COALESCE(cc.total_purchased, 0) as total_purchased,
  COALESCE(cc.total_used, 0) as total_used
FROM customers c
LEFT JOIN customer_credits cc ON c.id = cc.customer_id
ORDER BY c.name;
```

Recent Credit Additions

```
SELECT
  ct.created_at,
  c.name as customer,
  ct.amount,
  ct.description
FROM credit_transactions ct
JOIN customers c ON ct.customer_id = c.id
WHERE ct.created_at > NOW() - INTERVAL '7 days'
AND ct.payment_id LIKE 'MANUAL_ADMIN_%'
ORDER BY ct.created_at DESC;
```



Troubleshooting

“Failed to fetch customers” Error

- **Cause:** Database connection issue or permissions
- **Solution:** Check your database connection and ensure the migration ran successfully

“Forbidden - Admin access required”

- **Cause:** You're not logged in as a super admin
- **Solution:** Log in with a super admin account

Credits not showing in UI

- **Cause:** Migration not run or view not updated
- **Solution:** Run the migration script (`node scripts/run-migration-013.js`)

“Maximum 10,000 credits exceeded”

- **Cause:** Trying to add more than 10,000 credits at once
- **Solution:** Add credits in multiple transactions or modify the limit in the API



Files Modified/Created

Modified Files

1. `/src/app/lib/db/schema.sql` - Updated customer_stats view
2. `/src/app/admin/components/CustomerManagement.tsx` - Added credit UI

New Files

1. `/database/migrations/013_add_credits_to_customer_stats.sql` - Migration file
2. `/database/migrations/APPLY_MIGRATION_013.md` - Migration docs
3. `/scripts/run-migration-013.js` - Migration runner
4. `/ADMIN_CREDIT_MANAGEMENT_GUIDE.md` - This guide

Existing Files (Already Working!)

1. `/src/app/api/admin/credits/add/route.ts` - API endpoint (no changes needed)
2. `/src/app/lib/credits.ts` - Credit management functions (no changes needed)




Summary

You can now:

- ☒ View credit balances for all customers in the admin dashboard
- ☒ Add credits to any customer account with a simple UI
- ☒ Track all credit additions with full audit trail
- ☒ Use the API programmatically if needed
- ☒ Monitor credit usage and balances

All you need to do:

1. Run the database migration (one-time setup)
2. Log in to the admin dashboard
3. Navigate to Customers
4. Click “ Add Credits” on any customer
5. Fill in the amount and description
6. Done!

Perfect for demo accounts, promotional credits, compensations, and testing!

Questions or Issues?

- Check the audit logs in the database
- Review the API endpoint documentation in the code

- Verify your admin permissions
- Ensure the migration ran successfully