School Payment System

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Routes :

All routes collection ->

https://.postman.co/workspace/My-Workspace~8f94530d-4728-40e1-8da4-7b7e132212c2/collection/27206076-54c5e43d-c176-47e9-8642-52caac0ecd06?action=share&creator=27206076

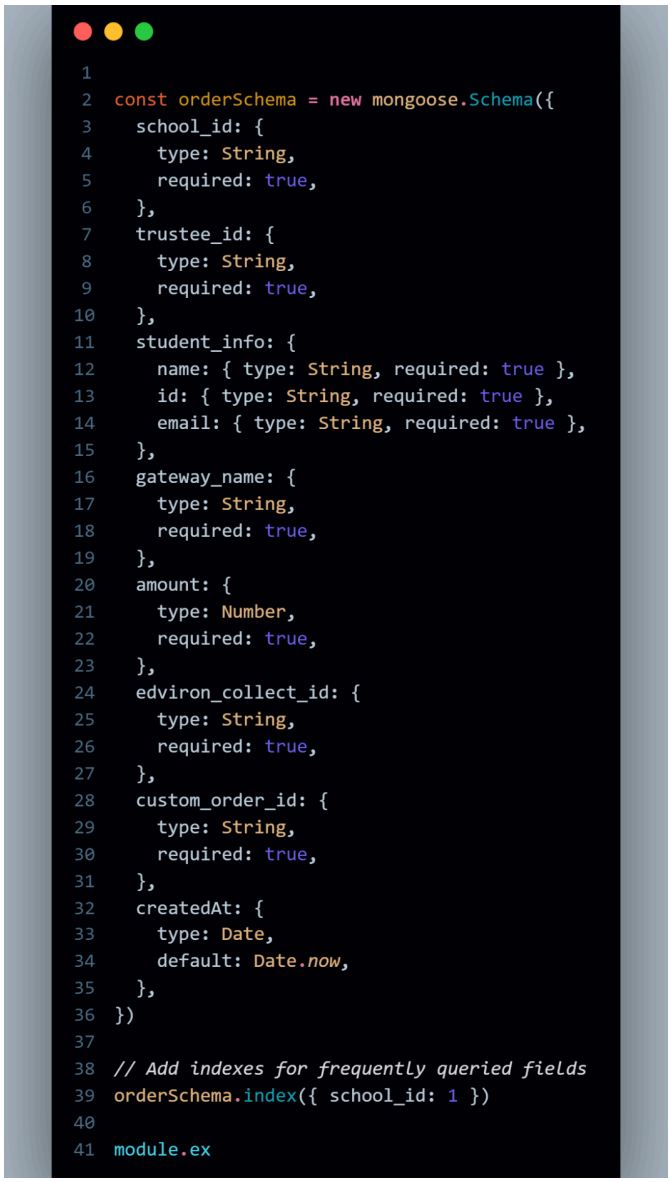
Backend :

Database Schemas (Folder -> models)

User Schema :

```
const userSchema = new mongoose.Schema({
  username: {
    type: String,
    required: true,
    unique: true,
  },
  password: {
    type: String,
    required: true,
  },
  email: {
    type: String,
    required: true,
    unique: true,
  },
  role: {
    type: String,
    enum: ["admin", "user"],
    default: "user",
  },
  createdAt: {
    type: Date,
    default: Date.now,
  },
})
```

OrderSchema :

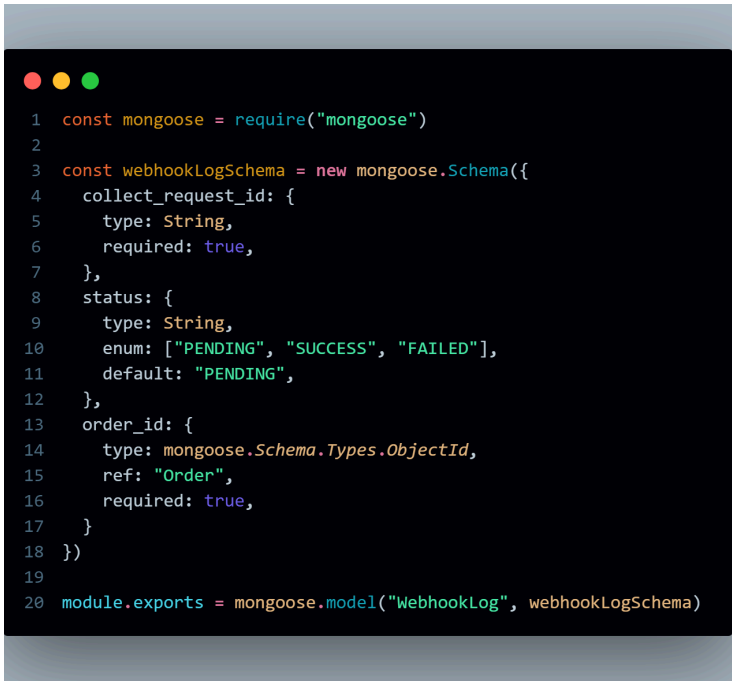


```
const orderSchema = new mongoose.Schema({
  school_id: {
    type: String,
    required: true,
  },
  trustee_id: {
    type: String,
    required: true,
  },
  student_info: {
    name: { type: String, required: true },
    id: { type: String, required: true },
    email: { type: String, required: true },
  },
  gateway_name: {
    type: String,
    required: true,
  },
  amount: {
    type: Number,
    required: true,
  },
  edviron_collect_id: {
    type: String,
    required: true,
  },
  custom_order_id: {
    type: String,
    required: true,
  },
  createdAt: {
    type: Date,
    default: Date.now,
  },
})

// Add indexes for frequently queried fields
orderSchema.index({ school_id: 1 })

module.ex
```

Order Status Schema :

```
const orderStatusSchema = new mongoose.Schema({
  order_id: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "Order",
    required: true,
  },
  order_amount: {
    type: Number,
    required: true,
  },
  transaction_amount: {
    type: Number,
    required: true,
  },
  gateway:{
    type: String,
  },
  bank_reference: {
    type: String,
  },
  status: {
    type: String,
    enum: ["pending", "success", "failed"],
    default: "pending",
  },
  payment_mode: {
    type: String,
  },
  payment_details: {
    type: String,
  },
  payment_message: {
    type: String,
  },
  payment_time: {
    type: Date,
    default: Date.now,
  },
  edviron_collect_id: {
    type: String,
    required: true,
  },
  error_message: {
    type: String,
  },
})

// Add indexes for frequently queried fields
orderStatusSchema.index({ order_id: 1 })
orderStatusSchema.index({ status: 1 })
```

Webhooks Log Schema :



```
const mongoose = require("mongoose")

const webhookLogSchema = new mongoose.Schema({
  collect_request_id: {
    type: String,
    required: true,
  },
  status: {
    type: String,
    enum: ["PENDING", "SUCCESS", "FAILED"],
    default: "PENDING",
  },
  order_id: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "Order",
    required: true,
  }
})

module.exports = mongoose.model("WebhookLog", webhookLogSchema)
```

1. Authentication

Register user

Request body -> username, email,password, confirm password.

Local host Url

http://localhost:3000/api/auth/register

Deployed Url

https://edviron-full-stack-developer-assessment.onrender.com/api/auth/register

Login User

Request body -> username , password

Localhost Url

http://localhost:3000/api/auth/login

Deployed Url

https://edviron-full-stack-developer-assessment.onrender.com/api/auth/login

Get Current user data

Protected route -> Before going to this route login first.

Local host Url

http://localhost:3000/api/auth/me

Deployed Url

https://edviron-full-stack-developer-assessment.onrender.com/api/auth/me

Payment Routes :

Request body -> { "school_id": "65b0e6293e9f76a9694d84b4", "amount": 100 }

Create Payments

http://localhost:3000/api/payments/create-payment

https://edviron-full-stack-developer-assessment.onrender.com/api/payments/create-payment

Webhook endpoint

http://localhost:3000/api/payments/webhook

https://edviron-full-stack-developer-assessment.onrender.com/api/payments/webhook

Check Payment Status

http://localhost:3000/api/payments/check-status

https://edviron-full-stack-developer-assessment.onrender.com/api/payments/check-status

Transactions endpoints :

Get All Transactions :
http://localhost:3000/api/transactions/

https://edviron-full-stack-developer-assessment.onrender.com/api/transactions/

Get transaction by school id:

http://localhost:3000/api/transactions/school/:schoolId

https://edviron-full-stack-developer-assessment.onrender.com/api/transactions/school/:schoolId

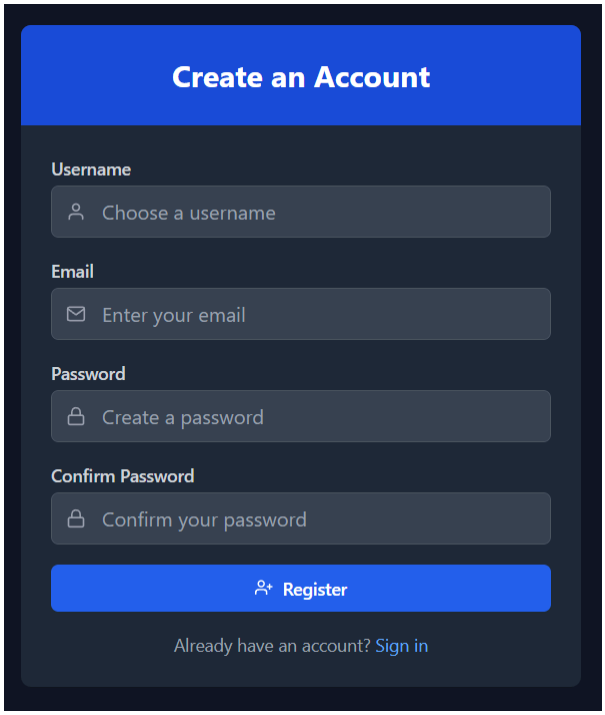
Check status of a transaction by `customOrderId` :

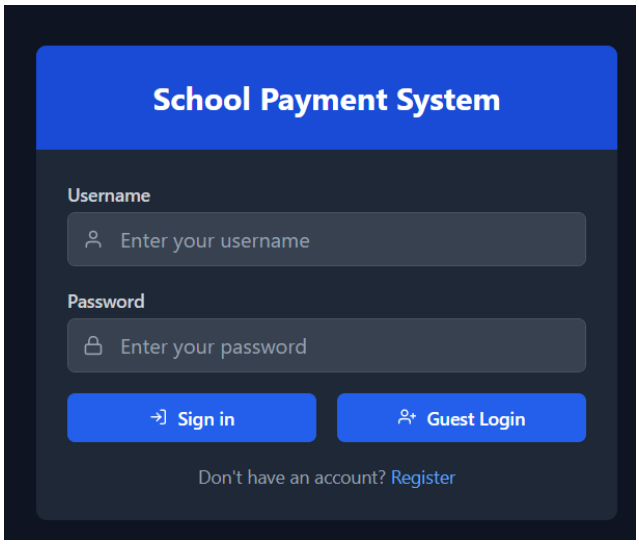
http://localhost:3000/api/transactions/status/:customOrderId

https://edviron-full-stack-developer-assessment.onrender.com/api/transactions/status/:customOrderId

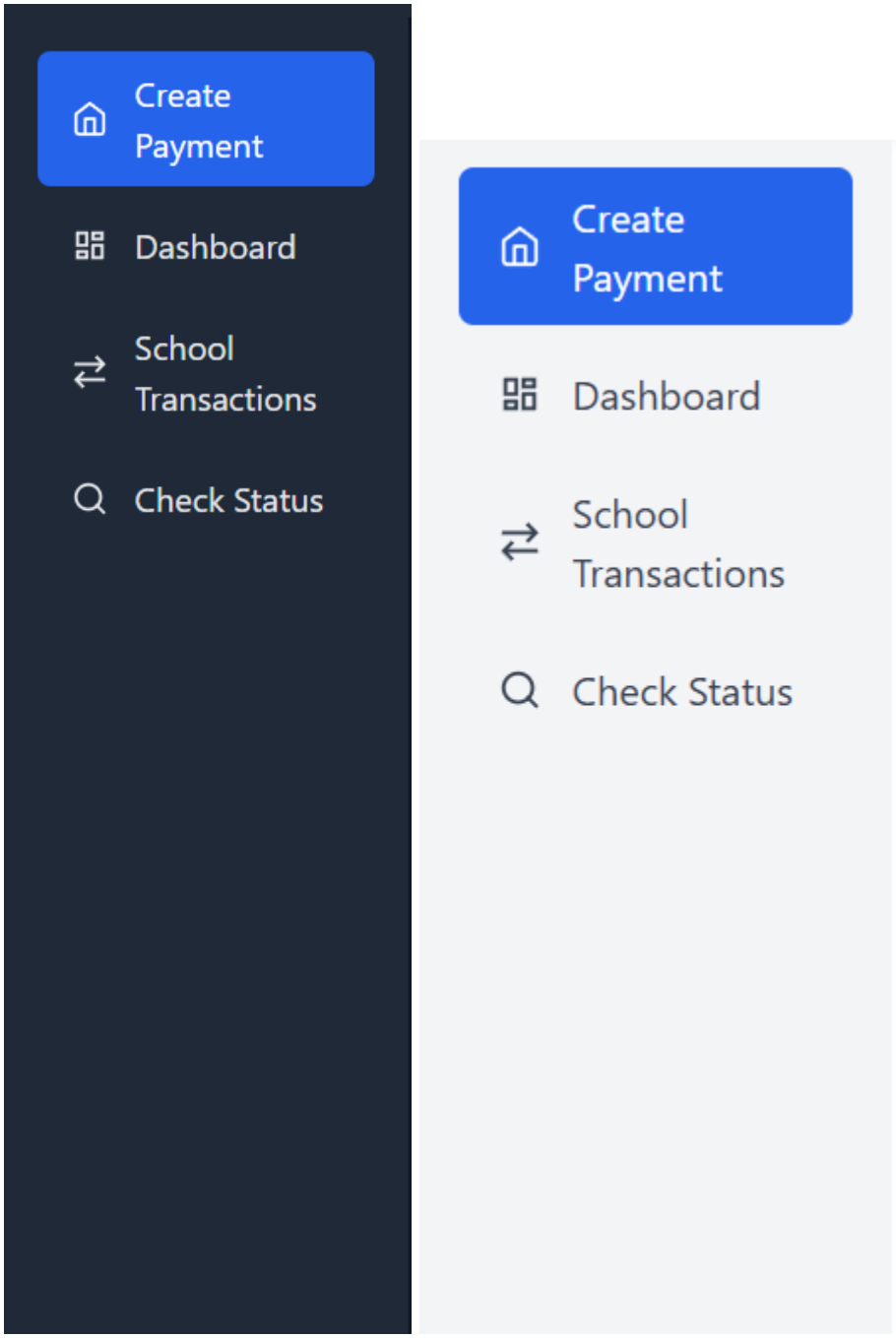
Frontend pages

Signup / Login Page



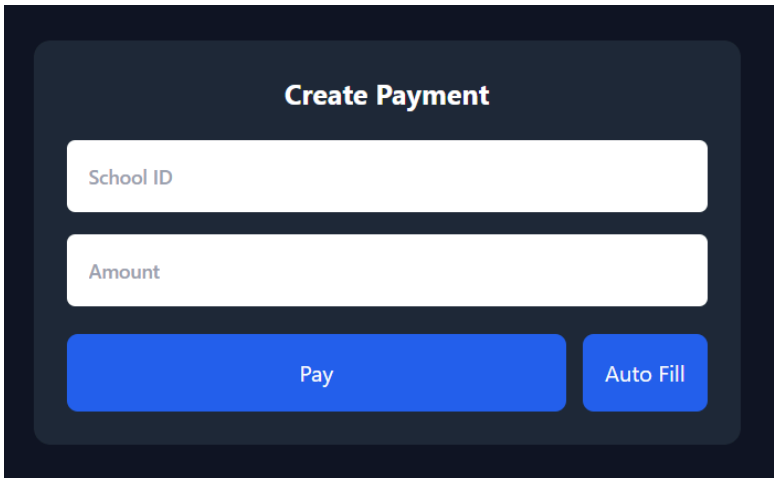


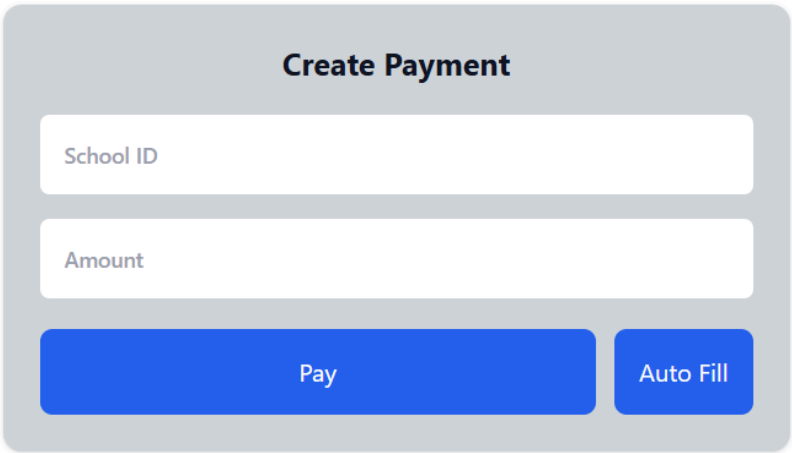
Sidebar


Create Payment
Dashboard
School Transactions
Check Status
Create Payment
Dashboard
School Transactions
Check Status

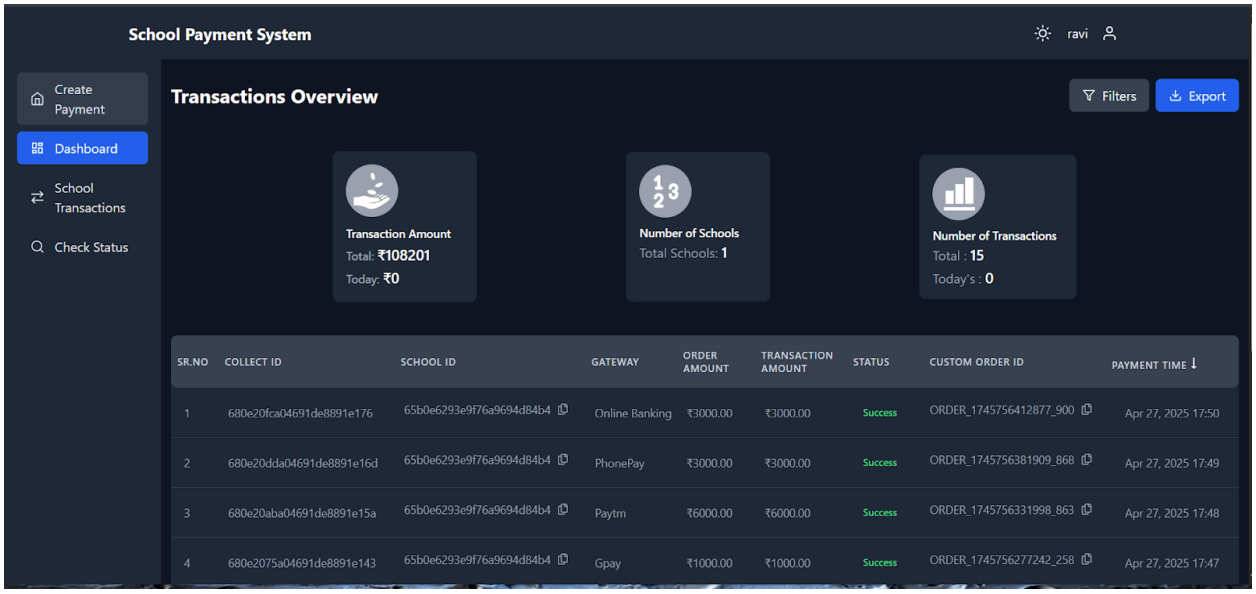
Navbar

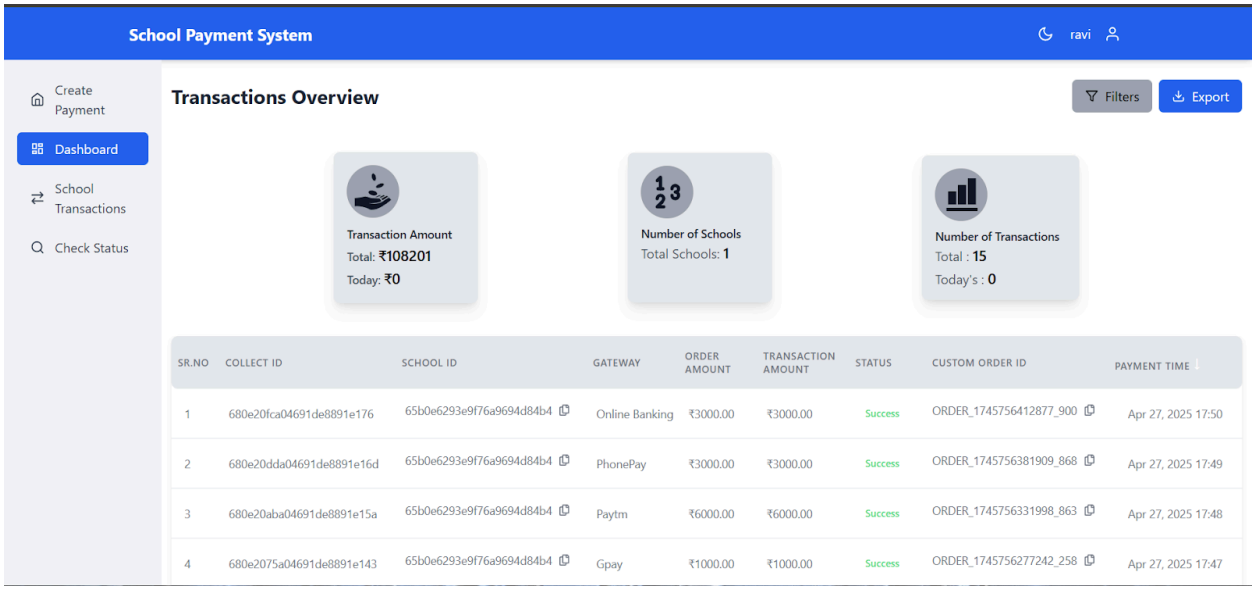
Create payment page -> To create a new payment



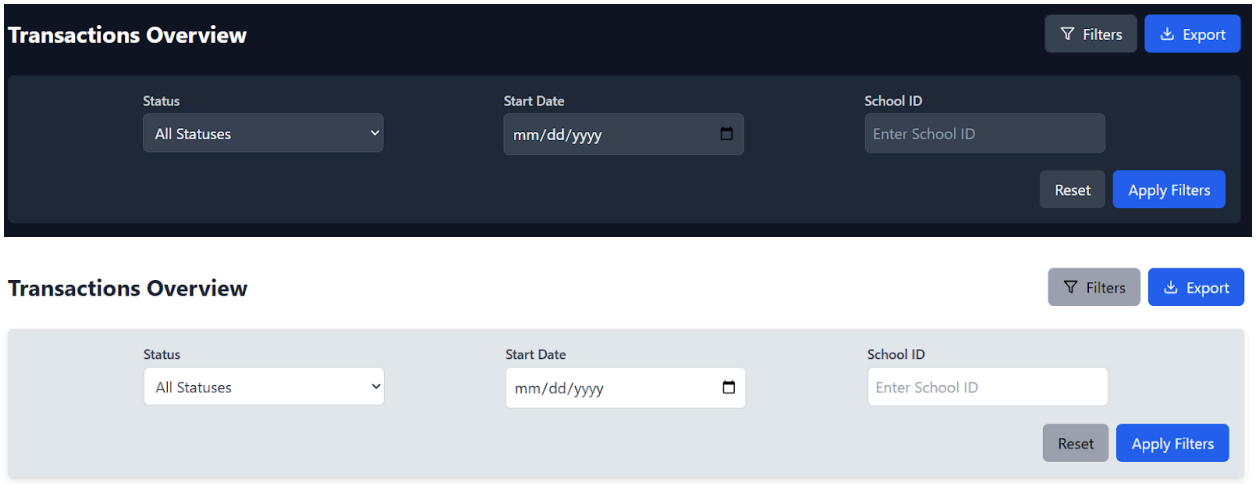


Dashboard -> Transaction table





Filters of this table



School transaction page

Transactions by School

Export

School ID

65b0e6293e9f76a9694d84b4

Search

COLLECT ID	GATEWAY	ORDER AMOUNT	TRANSACTION AMOUNT	STATUS	CUSTOM ORDER ID	PAYMENT TIME ↓
680e20fca04691de8891e176	Online Banking	₹3000.00	₹3000.00	Success	ORDER_1745756412877_900	Apr 27, 2025 17:50
680e20dda04691de8891e16d	PhonePay	₹3000.00	₹3000.00	Success	ORDER_1745756381909_868	Apr 27, 2025 17:49
680e20aba04691de8891e15a	Paytm	₹6000.00	₹6000.00	Success	ORDER_1745756331998_863	Apr 27, 2025 17:48
680e2075a04691de8891e143	Gpay	₹1000.00	₹1000.00	Success	ORDER_1745756277242_258	Apr 27, 2025 17:47
680e2045a04691de8891e132	Gpay	₹1201.00	₹1201.00	Success	ORDER_1745756229865_508	Apr 27, 2025 17:47
680e2026a04691de8891e125	Paytm	₹12000.00	₹12000.00	Success	ORDER_1745756198731_562	Apr 27, 2025 17:46
680e1ff4a04691de8891e118	GPay	₹10000.00	₹10000.00	Success	ORDER_1745756148695_308	Apr 27, 2025 17:45

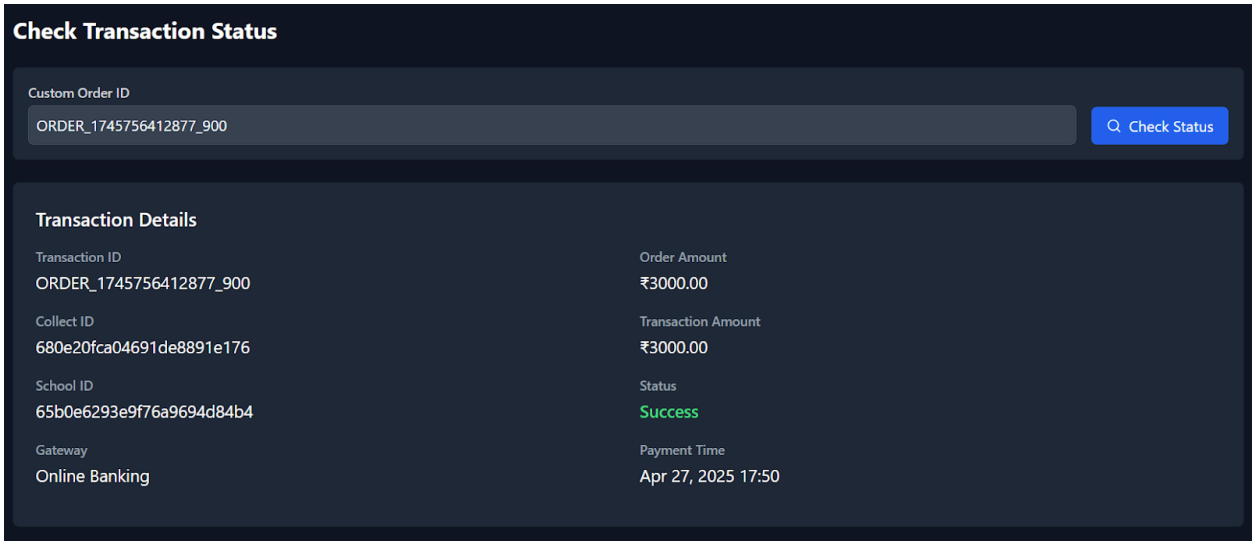
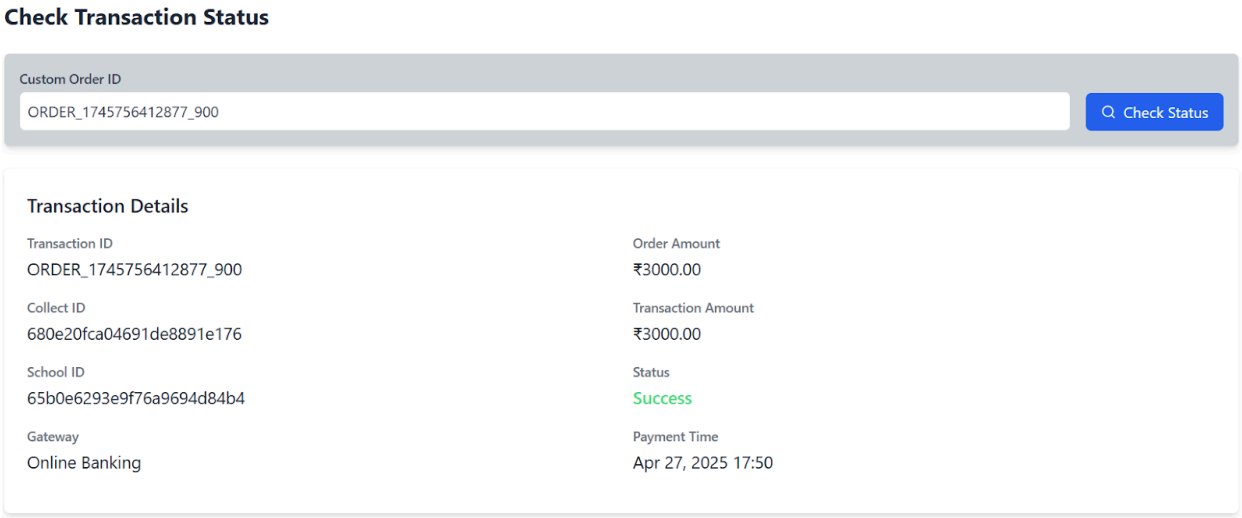
Transactions by School

Export

School ID

65b0e6293e9f76a9694d84b4

Search

COLLECT ID	GATEWAY	ORDER AMOUNT	TRANSACTION AMOUNT	STATUS ↑	CUSTOM ORDER ID	PAYMENT TIME
680ba8da8a5bd2664e8b55ca	edviron 3	₹3000.00	₹3000.00	Failed	ORDER_1745594586240_545	Apr 25, 2025 20:00
680c5cbe5e688bf3dbbc719b	Paytm	₹1000.00	₹1000.00	Pending	ORDER_1745640638196_352	Apr 26, 2025 09:40
680e1ff4a04691de8891e118	GPay	₹10000.00	₹10000.00	Success	ORDER_1745756148695_308	Apr 27, 2025 17:45
680c9d2bd80cf83e5fdf8257	edviron 3	₹3000.00	₹3000.00	Success	ORDER_1745657131544_462	Apr 26, 2025 14:15
680e2026a04691de8891e125	Paytm	₹12000.00	₹12000.00	Success	ORDER_1745756198731_562	Apr 27, 2025 17:46
680e1f98a04691de8891e10b	phonePay	₹2000.00	₹2000.00	Success	ORDER_1745756056157_433	Apr 27, 2025 17:44
680c60e1c12fa219a1a2d94b	Paytm	₹50000.00	₹50000.00	Success	ORDER_1745641697890_898	Apr 26, 2025 09:58

Check transaction status