

School Payment System

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Backend :

Database Schemas (Folder -> models)

User Schema :

```
1
2  const userSchema = new mongoose.Schema({
3    username: {
4      type: String,
5      required: true,
6      unique: true,
7    },
8    password: {
9      type: String,
10     required: true,
11   },
12   email: {
13     type: String,
14     required: true,
15     unique: true,
16   },
17   role: {
18     type: String,
19     enum: ["admin", "user"],
20     default: "user",
21   },
22   createdAt: {
23     type: Date,
24     default: Date.now,
25   },
26 })
```

OrderSchema :

```
1
2  const orderSchema = new mongoose.Schema({
3    school_id: {
4      type: String,
5      required: true,
6    },
7    trustee_id: {
8      type: String,
9      required: true,
10   },
11   student_info: {
12     name: { type: String, required: true },
13     id: { type: String, required: true },
14     email: { type: String, required: true },
15   },
16   gateway_name: {
17     type: String,
18     required: true,
19   },
20   custom_order_id: {
21     type: String,
22     required: true,
23     unique: true,
24   },
25   createdAt: {
26     type: Date,
27     default: Date.now,
28   },
29 })
```

Order Status Schema :

```
1  const orderStatusSchema = new mongoose.Schema({
2    collect_id: {
3      type: mongoose.Schema.Types.ObjectId,
4      ref: "Order",
5      required: true,
6    },
7    order_amount: {
8      type: Number,
9      required: true,
10   },
11   transaction_amount: {
12     type: Number,
13     required: true,
14   },
15   payment_mode: {
16     type: String,
17   },
18   payment_details: {
19     type: String,
20   },
21   bank_reference: {
22     type: String,
23   },
24   payment_message: {
25     type: String,
26   },
27   status: {
28     type: String,
29     enum: ["pending", "success", "failed"],
30     default: "pending",
31   },
32   error_message: {
33     type: String,
34   },
35   payment_time: {
36     type: Date,
37     default: Date.now,
38   },
39 })
```

Webhooks Log Schema :

```
1  const webhookLogSchema = new mongoose.Schema({
2    payload: {
3      type: Object,
4      required: true,
5    },
6    timestamp: {
7      type: Date,
8      default: Date.now,
9    },
10   processed: {
11     type: Boolean,
12     default: false,
13   },
14   error: {
15     type: String,
16   },
17 })
```

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>

1. Authentication

Register user

Local host Url

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

Deployed Url

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

Login User

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

Local host Url

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

Deployed Url

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

Payment Routes :

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>

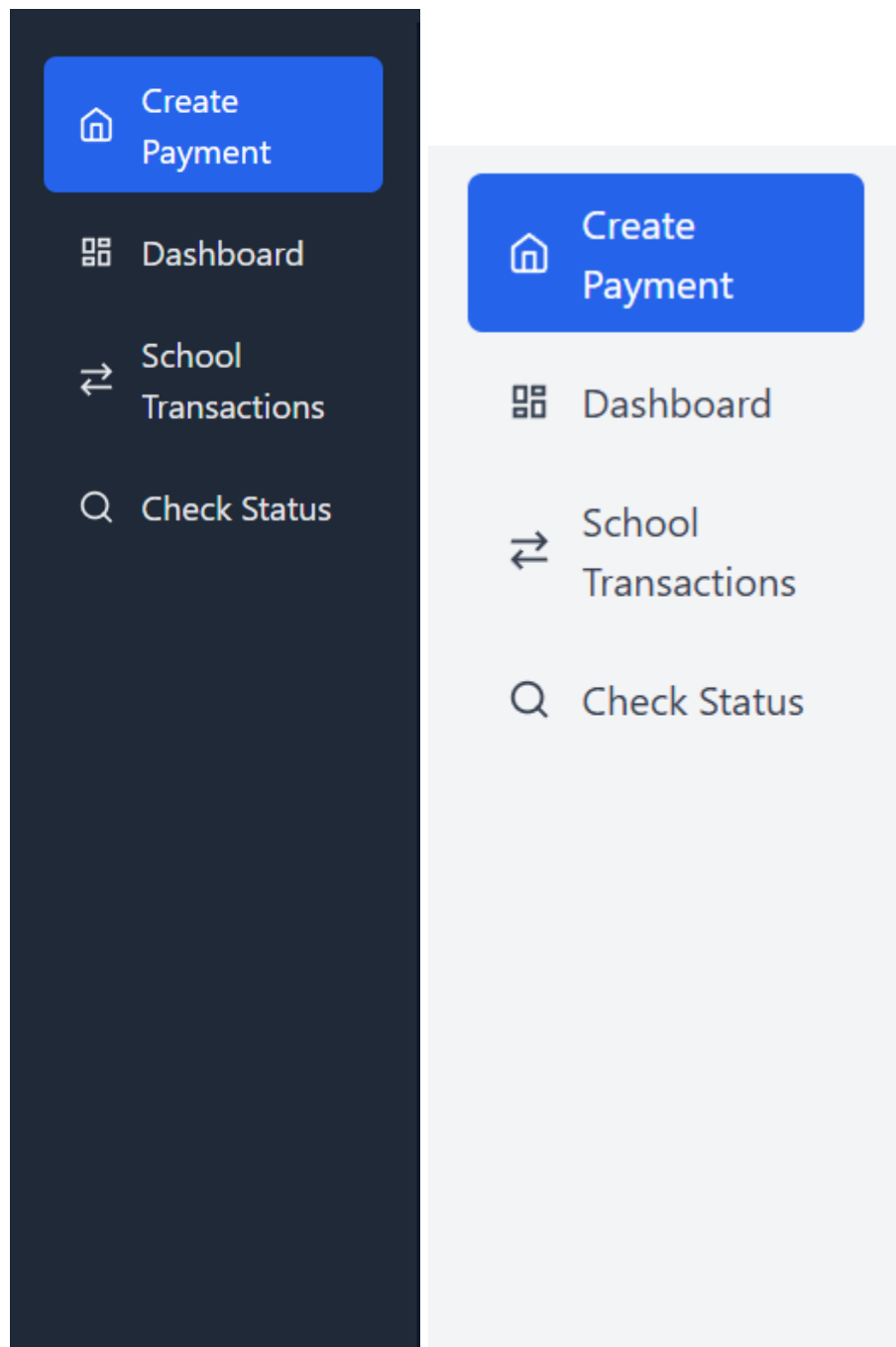
<https://edviron-full-stack-developer-assessment.onrender.com/api/transactions/status/:customOrderId>

Frontend pages

Signup / Login Page

The image displays two side-by-side screenshots of web application pages. The left page is titled 'Create an Account' and features a dark blue header. Below the header, there are four input fields: 'Username' with a placeholder 'Choose a username', 'Email' with a placeholder 'Enter your email', 'Password' with a placeholder 'Create a password', and 'Confirm Password' with a placeholder 'Confirm your password'. Each input field has a small icon (person, envelope, and padlock respectively) to its left. At the bottom of the form is a blue button with a person icon and the text 'Register'. Below the button, there is a link that says 'Already have an account? Sign in'. The right page is titled 'School Payment System' and also has a dark blue header. It contains two input fields: 'Username' with a placeholder 'Enter your username' and 'Password' with a placeholder 'Enter your password'. Each input field has a small icon (person and padlock respectively) to its left. Below these fields are two buttons: a blue button with a right-pointing arrow and the text 'Sign in', and a white button with a person icon and the text 'Guest Login'. At the bottom of the page, there is a link that says 'Don't have an account? Register'.

Sidebar



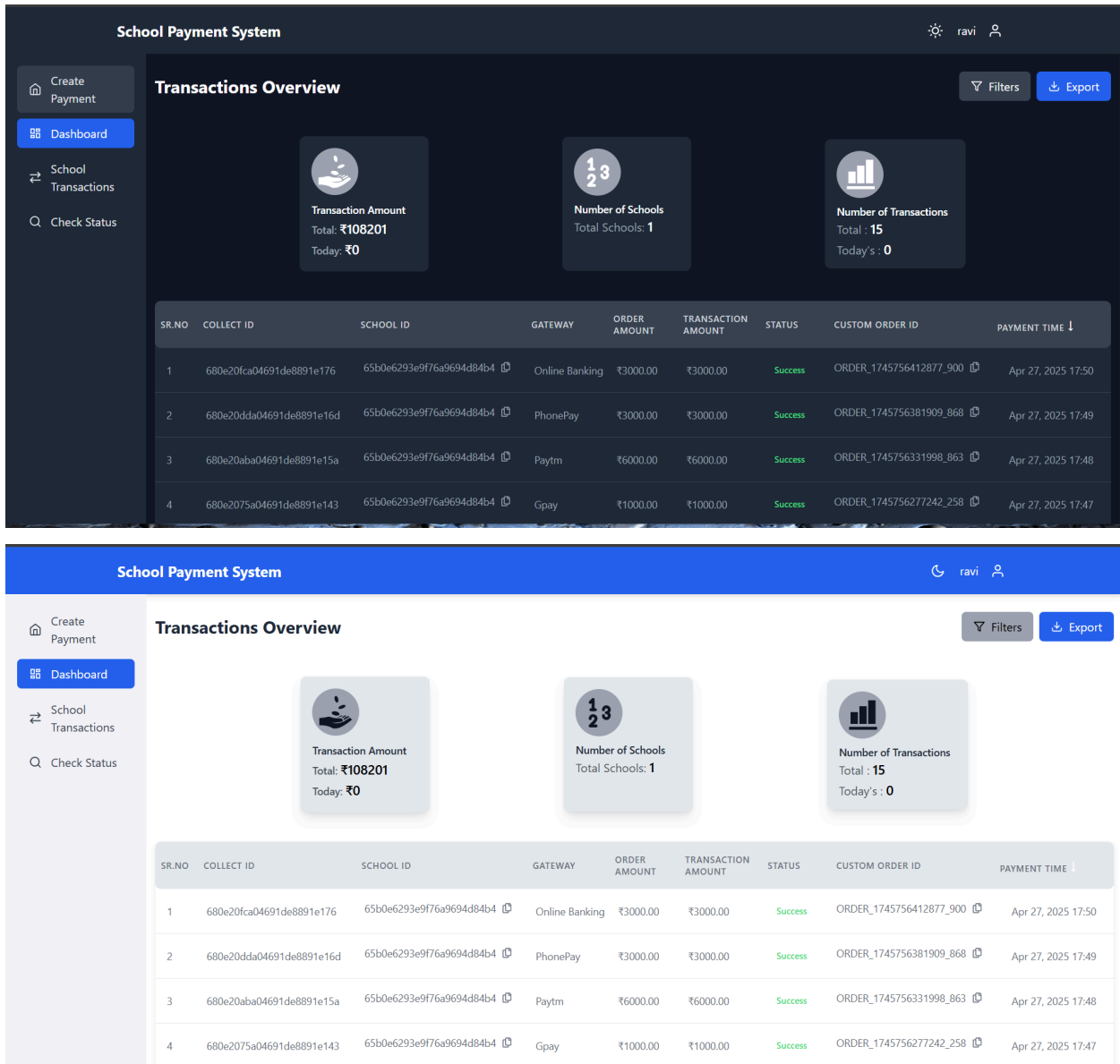
Navbar



Create payment page -> To create a new payment

The image shows two versions of a 'Create Payment' form. The left version is a dark-themed form with a dark blue sidebar. It features a title 'Create Payment' and seven input fields: 'School ID', 'Trustee ID', 'Student Name', 'Student ID', 'Student Email', 'Gateway Name', and 'Amount'. At the bottom, there are two buttons: 'Pay' and 'Auto Fill'. The right version is a light-themed form with a light gray sidebar. It features a title 'Create Payment' and seven input fields: 'School ID', 'Trustee ID', 'Student Name', 'Student ID', 'Student Email', 'Gateway Name', and 'Amount'. At the bottom, there are two buttons: 'Pay' and 'Auto Fill'.

Dashboard -> Transaction table



Filters of this table

Transactions Overview

Filters

Export

Status

All Statuses

Start Date

mm/dd/yyyy

School ID

Enter School ID

Reset

Apply Filters

Transactions Overview

Filters

Export

Status

All Statuses

Start Date

mm/dd/yyyy

School ID

Enter School ID

Reset

Apply Filters

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	edviro	₹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
680c9d2bd80cf83e5fd8257	edviro	₹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

Check Transaction Status

Custom Order ID

ORDER_1745756412877_900

Check Status

Transaction Details

Transaction ID

ORDER_1745756412877_900

Order Amount

₹3000.00

Collect ID

680e20fca04691de8891e176

Transaction Amount

₹3000.00

School ID

65b0e6293e9f76a9694d84b4

Status

Success

Gateway

Online Banking

Payment Time

Apr 27, 2025 17:50

Check Transaction Status

Custom Order ID

ORDER_1745756412877_900

Check Status

Transaction Details

Transaction ID	Order Amount
ORDER_1745756412877_900	₹3000.00
Collect ID	Transaction Amount
680e20fca04691de8891e176	₹3000.00
School ID	Status
65b0e6293e9f76a9694d84b4	Success
Gateway	Payment Time
Online Banking	Apr 27, 2025 17:50