Registration With Payment Gateway

Github Repository : <https://github.com/ValdryanIvandito/registration-with-payment.git>

Aplikasi web sederhana yang saya buat ini bertujuan untuk mendemonstrasikan kemampuan dan pengetahuan saya setelah belajar menjadi Fullstack Developer selama 8 bulan. Aplikasi ini berupa formulir pendaftaran yang dilengkapi fitur pembayaran melalui payment gateway midtrans (<https://midtrans.com/>) dan notifikasi email sebagai konfirmasi jika pembayaran berhasil.

Techstack utama yang saya gunakan untuk membangun aplikasi ini adalah sebagai berikut :

* Next.js
* TailwindCSS
* Modul – modul utama yang saya gunakan adalah sebagai berikut:
* Midtrans Client
* Nodemailer
* Validator.js

Fitur – fitur pada aplikasi web ini adalah sebagai berikut :

* Responsive Design, UI akan otomatis menyesuaikan dengan layar ponsel, tablet, dan desktop.
* Validasi input format email dan nomor ponsel.
* Fitur pembayaran via GoPay QRIS, Virtual Account Bank BCA, BRI, BNI, dan Mandiri.
* Notifikasi email setelah pembayaran berhasil.

Cara menggunakan aplikasi web ini:

1. Go to <https://registration-with-payment-gateway.vercel.app/>
2. Masukan First Name, Last Name, Email, dan Phone Number pada formulir.
3. Pilih metode pembayaran (untuk simulasi direkomendasikan memilih BCA VA).
4. Jika sudah yakin klik Submit lalu tunggu hingga muncul halaman pembayaran. Di halaman pembayaran terdapat virtual account number, copy nomor tersebut.
5. Go to <https://simulator.sandbox.midtrans.com/bca/va/index> paste nomor virtual account lalu klik Inquire kemudian klik pay. Website ini digunakan untuk simulasi pembayaran bank virtual account BCA. Selain menggunakan simulator pembayaran VA BCA, anda dapat melakukan pembayaran di beberapa simulator berikut ini:

* Simulator GoPay QRIS: <https://simulator.sandbox.midtrans.com/gopay/ui/index>
* Simulator VA BRI: <https://simulator.sandbox.midtrans.com/openapi/va/index?bank=bri>
* Simulator VA BNI: <https://simulator.sandbox.midtrans.com/bni/va/index>

1. Kembali lagi ke halaman pembayaran tunggu beberapa saat sampai muncul notifikasi pembayaran berhasil lalu halaman akan redirect ke halaman lain yang ada pesan “*Thankyou for submitting your registration confirmation has been sent to your email*”.
2. Langkah terakhir, cek email anda sesuai yang diinputkan di formulir pendaftaran. Anda akan menerika email dari pengirim yang bernama [noreplyr35@gmail.com](mailto:noreplyr35@gmail.com) dengan pesan “*Your payment with order-Id XYZ-XXXXXXXXXXXXhas been successful!*”.

Untuk lebih jelasnya, cara kerja dan penggunaan aplikasi ini akan di tayangkan di video dibawah ini:

Referensi Dokumentasi Teknis :

* <https://docs.midtrans.com/reference/quick-start-1>
* <https://www.npmjs.com/package/midtrans-client>
* <https://nodemailer.com/>
* <https://www.npmjs.com/package/midtrans-client>
* <https://www.npmjs.com/package/validatorjs>
* <https://tailwindcomponents.com/cheatsheet/>

Referensi Tutorial :

* <https://www.udemy.com/course/nextjs-react-the-complete-guide/>
* <https://www.youtube.com/watch?v=sXDwatqav6g&list=PLtHSjG_6PalpVZyjVuoA5fVzRXOr6tVcn>
* <https://youtu.be/z3slaXqmkT0?list=PLFIM0718LjIUHFRMzPJ0wGjx9_NlC5d1h>
* <https://youtu.be/VaNctBj6pLI?list=PLkd_KdFE7Ws6y-qAj_MlZh9jwVzG7P_0P>
* <https://youtu.be/0OYTeObVClU>
* <https://youtu.be/L46FwfVTRE0?list=PLkd_KdFE7Ws6y-qAj_MlZh9jwVzG7P_0P>

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I created this simple web application to demonstrate my abilities and knowledge after learning to become a Fullstack Developer for 8 months. This application is a registration form which is equipped with a payment feature via the Midtrans payment gateway (https://midtrans.com/) and email notification as confirmation if the payment is successful.

The main Techstack that I used to build this application is as follows:

* Next.js
* TailwindCSS
* The main modules that I use are as follows:
  + Midtrans clients
  + Nodemailer
  + Validator.js

The features of this web application are as follows:

* Responsive Design, the UI will automatically adapt to mobile, tablet and desktop screens.
* Validate the input format of email and phone number.
* Payment feature via GoPay QRIS, BCA, BRI, BNI and Mandiri Bank Virtual Accounts.
* Email notification after successful payment.

How to use this web application:

1. Go to https://registration-with-payment-gateway.vercel.app/
2. Enter First Name, Last Name, Email and Phone Number on the form.
3. Select the payment method (for simulation it is recommended to choose BCA VA).
4. If you are sure, click Submit then wait until the payment page appears. On the payment page there is a virtual account number, copy that number.
5. Go to https://simulator.sandbox.midtrans.com/bca/va/index then paste the virtual account number then click Inquire and click pay. This website is used to simulate BCA virtual bank account payments. Apart from using the VA BCA payment simulator, you can make payments in the following simulators:

* GoPay QRIS Simulator: <https://simulator.sandbox.midtrans.com/gopay/ui/index>
* BRI VA Simulator: <https://simulator.sandbox.midtrans.com/openapi/va/index?bank=bri>
* BNI VA Simulator: https://simulator.sandbox.midtrans.com/bni/va/index

1. Return to the payment page, wait a few moments until a successful payment notification appears, then the page will redirect to another page with the message "Thank you for submitting your registration confirmation has been sent to your email".
2. The final step, check your email as entered in the registration form. You will receive an email from a sender named noreplyr35@gmail.com with the message "Your payment with order-Id XYZ-XXXXXXXXXXXX has been successful!".

For more details, how this application works and is used will be shown in the video below:

Technical Documentation References :

* <https://docs.midtrans.com/reference/quick-start-1>
* <https://www.npmjs.com/package/midtrans-client>
* <https://nodemailer.com/>
* <https://www.npmjs.com/package/midtrans-client>
* <https://www.npmjs.com/package/validatorjs>
* <https://tailwindcomponents.com/cheatsheet/>

Tutorial References :

* <https://www.udemy.com/course/nextjs-react-the-complete-guide/>
* <https://www.youtube.com/watch?v=sXDwatqav6g&list=PLtHSjG_6PalpVZyjVuoA5fVzRXOr6tVcn>
* <https://youtu.be/z3slaXqmkT0?list=PLFIM0718LjIUHFRMzPJ0wGjx9_NlC5d1h>
* <https://youtu.be/VaNctBj6pLI?list=PLkd_KdFE7Ws6y-qAj_MlZh9jwVzG7P_0P>
* <https://youtu.be/0OYTeObVClU>
* <https://youtu.be/L46FwfVTRE0?list=PLkd_KdFE7Ws6y-qAj_MlZh9jwVzG7P_0P>

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