

Installation Guide for Moodle Novalnet Payment Plugin

Version	Date	Remarks
1.0.0	06.05.2025	[New Release] Payment plugin built with seamless payment experience, with enhanced features, and with better usability

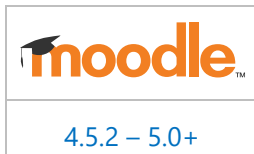
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1 QUICK SETUP

This guide describes the quick installation procedure of the Novalnet payment plugin with your shop system and how to start accepting payments worldwide. For this integration, a Novalnet merchant account is needed to accept Novalnet payments, so please make sure that you have received your merchant account details from our sales team. If not, drop a mail to sales@novalnet.de

This Novalnet payment plugin version (1.0.0) supports the following versions of Moodle:



To get started:

1. Log in to the [Novalnet Admin Portal](#) with your merchant account details (user credentials).
2. Log in to your Moodle shop system.
3. Make sure that you have extracted the payment plugin package from the zip file you have received.

1.1 Plugin Installation

1.1.1 Plugin Installation via Package

To install the Novalnet Payment Plugin, please go to your shop admin panel and follow the steps below,

Step 1: Navigate to **Site administration** → **Plugins** → **Install plugins** in your shop admin panel as shown below.

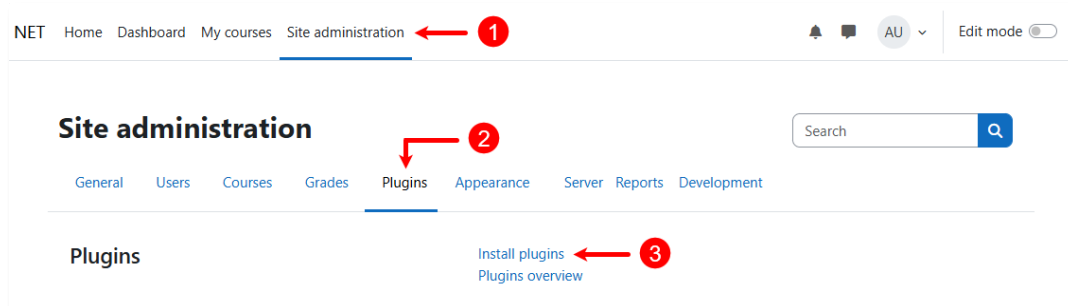


Figure 1

Step 2: Click **Choose a file...** as shown below

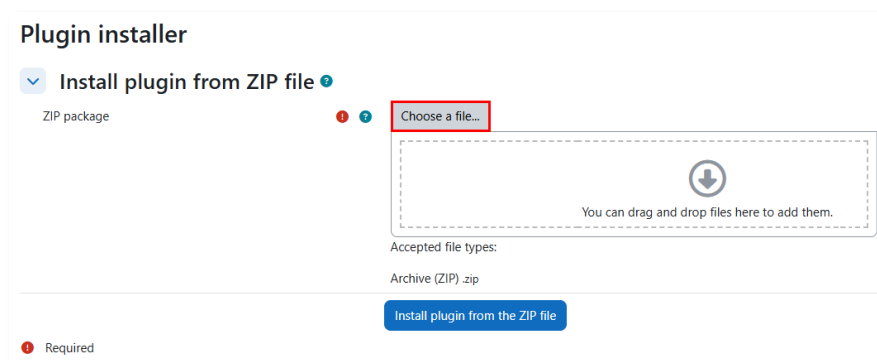


Figure 2

Step 3: Click **Choose File** under **Attachments**, select the **paygw_novalnet_moodle50_2025040700.zip** file, and then click **Open** as shown below

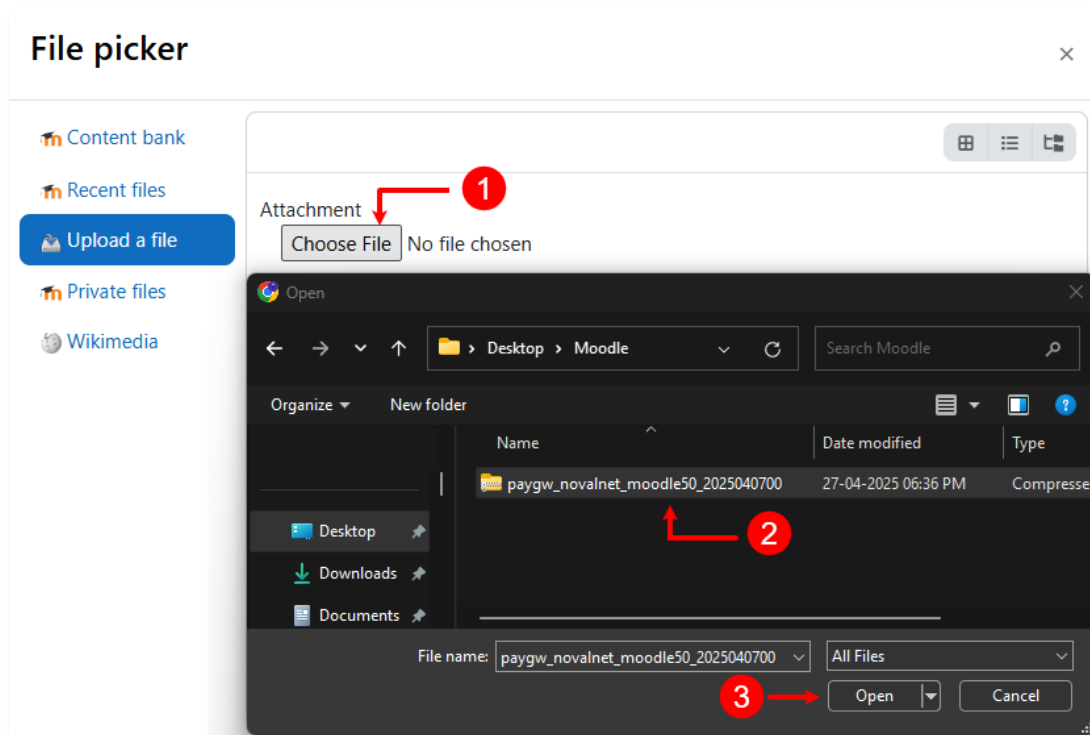


Figure 3

Step 4: Click **Upload this file** to upload to the shop as shown below

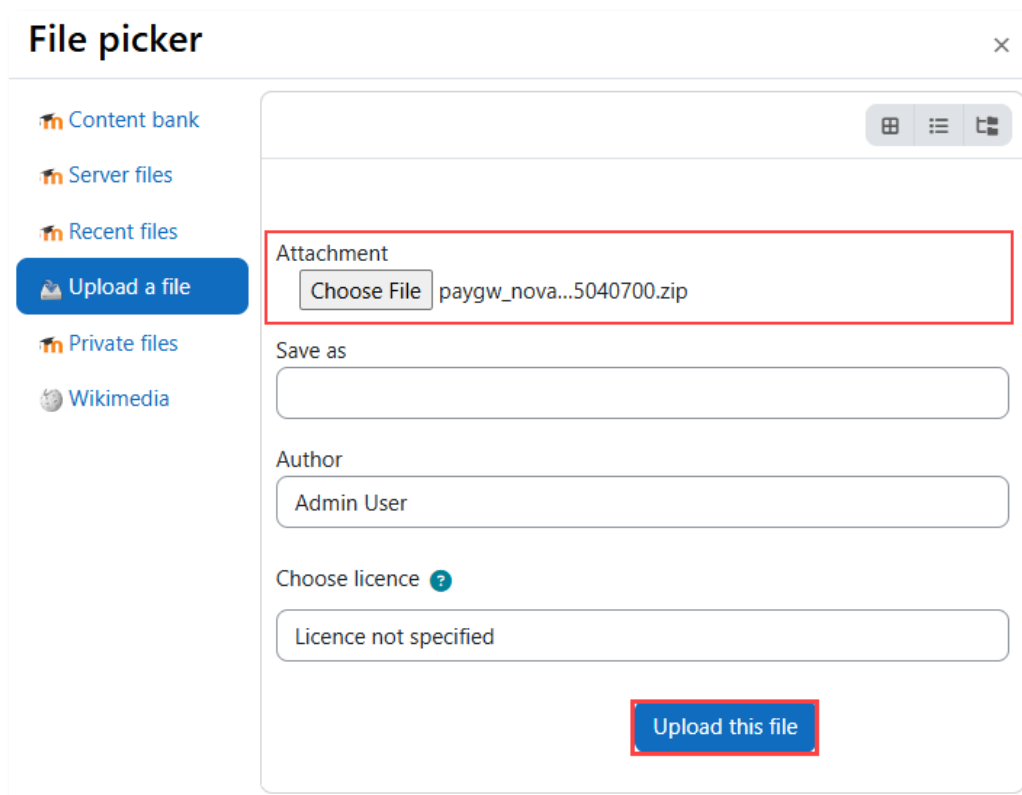


Figure 4

Step 5: Once the file is uploaded, click **Install plugin from the ZIP file** as shown below

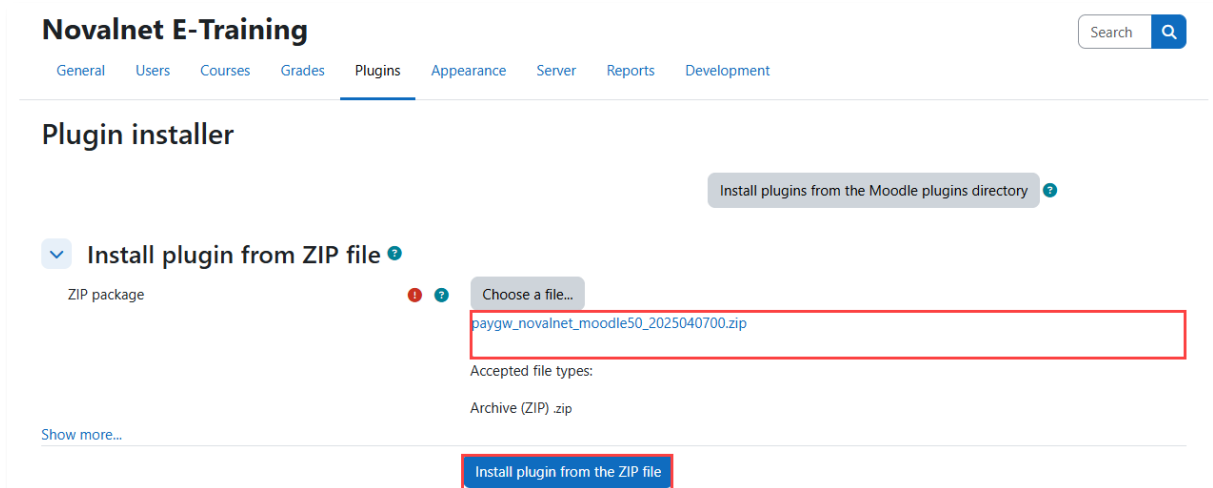


Figure 5

Step 6: Once the plugin validation is completed successfully, click **Continue** to install the plugin in the Moodle system, as shown below.

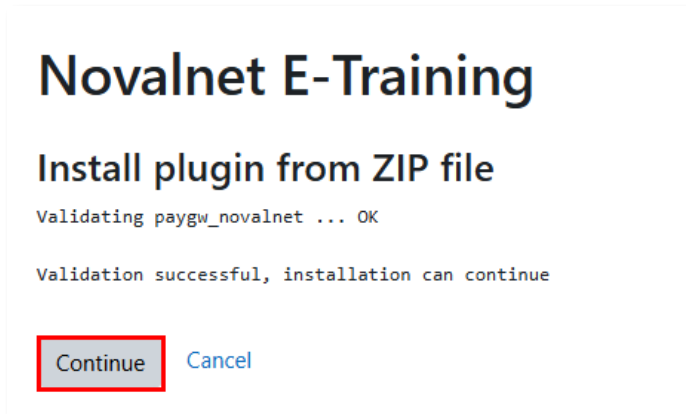


Figure 6

1.2 Global Configuration in the Moodle Shop System

The main configuration occurs in your Moodle shop system and the [Novalnet Admin Portal](#). Follow the steps below,

Step 1: In your Moodle shop admin panel, navigate to **Site administration** → **Payment accounts** and click **Create payment account** as shown below

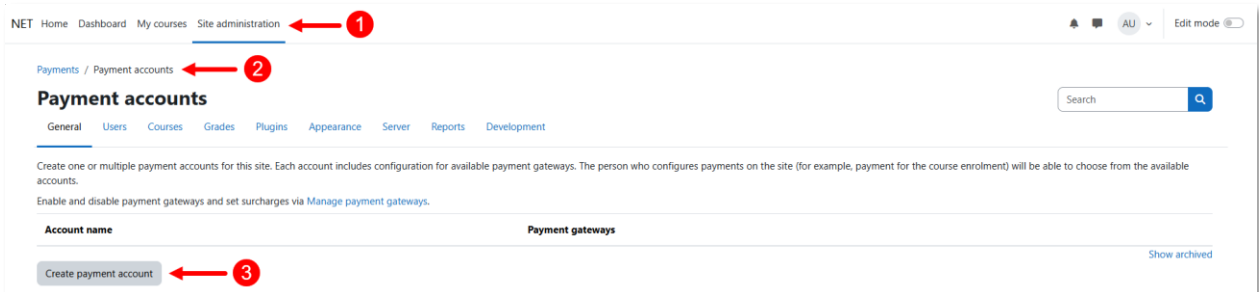


Figure 7

Step 2: Enter the required details and click **Save changes** as shown below

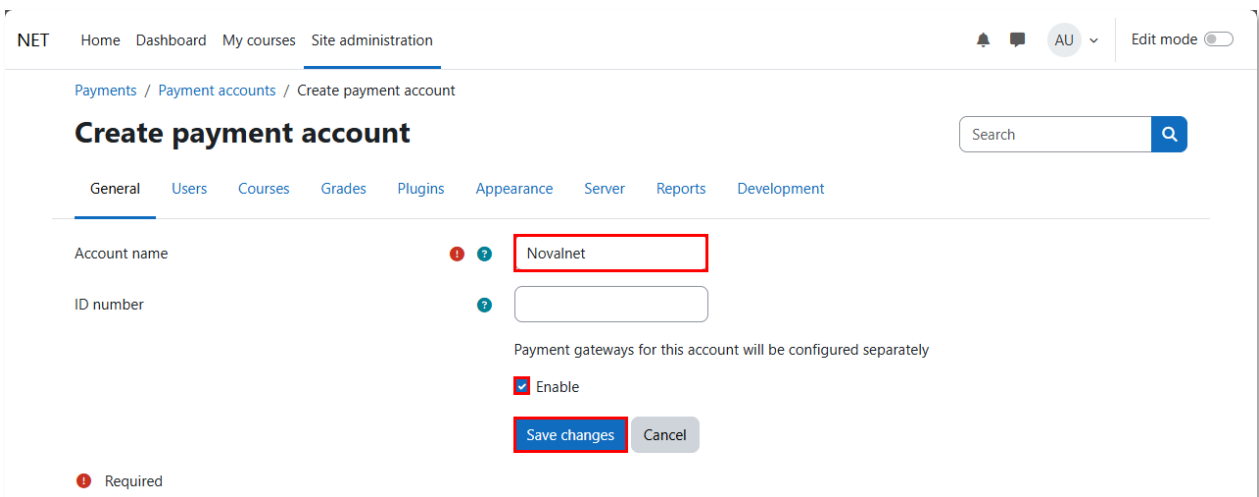


Figure 8

Step 3: Once the changes to payment accounts are saved, a payment account will be generated as shown below

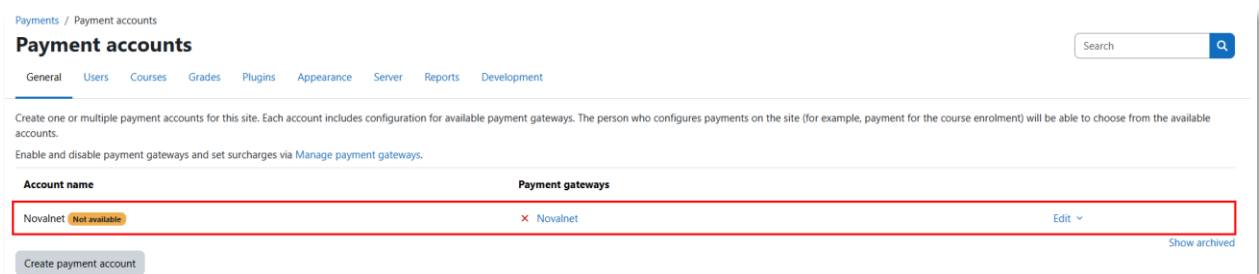


Figure 9

By clicking the **Novalnet** link, you will be forwarded to the Global Configuration page to enter the following keys in the Novalnet API Configuration:

- 🔑 **Product activation key** - a unique token for merchant authentication and payment processing.
- 🔑 **Payment access key** - a secret key assigned to each merchant that encrypts the data to avoid user manipulation and fraud.
- 🔑 **Tariff ID** - a unique identifier created based on the tariff type at Novalnet.

Payments / Payment accounts / Create payment account

Create payment account

Search

General Users Courses Grades Plugins Appearance Server Reports Development

Expand all

Account name Novalnet

Payment gateway Novalnet

☐ Enable

▼ **Novalnet API Configuration**

Product activation key

Payment access key

Select Tariff ID

Figure 10

To get your **Product activation** and **Payment access keys**, go to the [Novalnet Admin Portal](#), navigate to the **Projects** menu, and choose your project as shown below.

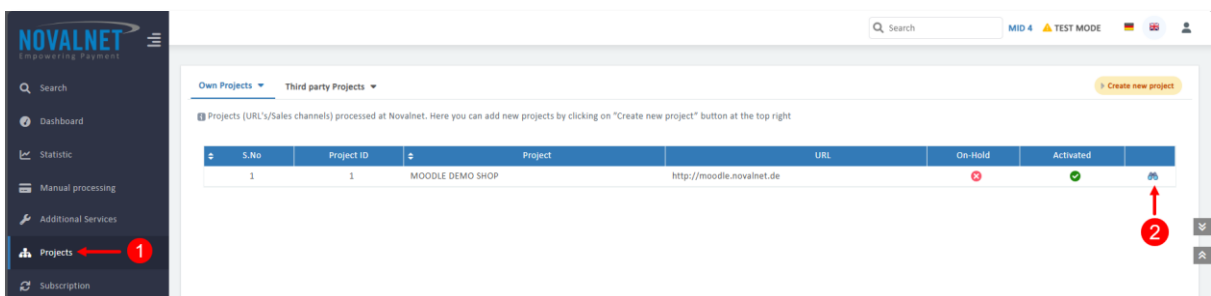


Figure 11

Click **API credentials**, and copy the **API Signature (Product activation key)** and **Payment access key**.

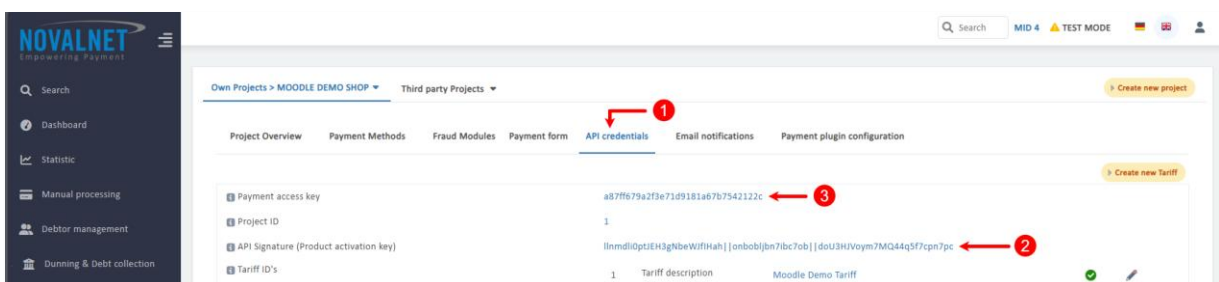


Figure 12

Paste the **Product activation key** and **Payment access key** in the respective fields in your shop admin panel. Next, choose the Tariff ID from the **Select Tariff ID** drop-down menu you have created at the [Novalnet Admin Portal](#).

Figure 13

Save changes

Then click to update the changes.

1.2.1 Notification/Webhook Configuration in the Novalnet Admin Portal

Your **Notification / Webhook URL** is under **Notification / Webhook URL Setup** on the Global Configuration page, as shown below.

Figure 14

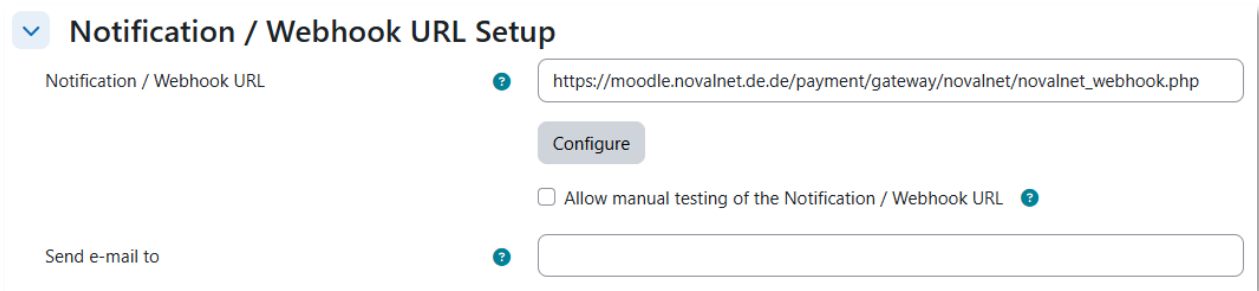
Click **Configure** to set up your **Notification / Webhook URL** in the [Novalnet Admin Portal](#).

Figure 15

After successful configuration, your shop **Notification / Webhook URL** will be linked with your Novalnet Merchant account, which can be seen under your project's Vendor script URL/ Notification & Webhook URL field, as shown below.

Figure 16




In your shop system, you can also manually test the Webhook URL and send notification emails to the specific email address mentioned here.



The screenshot shows a configuration panel titled "Notification / Webhook URL Setup". It contains three main sections:

- Notification / Webhook URL:** A text input field containing the URL "https://moodle.novalnet.de.de/payment/gateway/novalnet/novalnet_webhook.php". Below it is a "Configure" button.
- Allow manual testing of the Notification / Webhook URL:** A checkbox that is currently unchecked, with a help icon to its right.
- Send e-mail to:** An empty text input field with a help icon to its left.

Figure 17

-  **Notification / Webhook URL**—This is required to keep the merchant’s database/system updated and synchronized with Novalnet (for example, to deliver up-to-date transaction status).
-  **Allow manual testing of the Notification / Webhook URL** - Enable this to manually test the Novalnet Notification / Webhook URL. Disable this before setting your shop system live to block unauthorized API calls from external parties.
-  **Send e-mail to** - Every execution will be sent as a message to the e-mail address defined in this field.

1.3 Payment Activation in the Novalnet Admin Portal

All the Novalnet-supported payment methods can be viewed here: www.novalnet.com/payment. If you have any questions related to the payment methods or have additional payment method requests, please contact sales@novалnet.de

To activate the [preferred payment methods](#) for your website, navigate to [Novalnet Admin Portal](#) → **Projects** → choose your project → **Payment Methods** → click **Edit Payment Methods** in the top right corner, as shown below

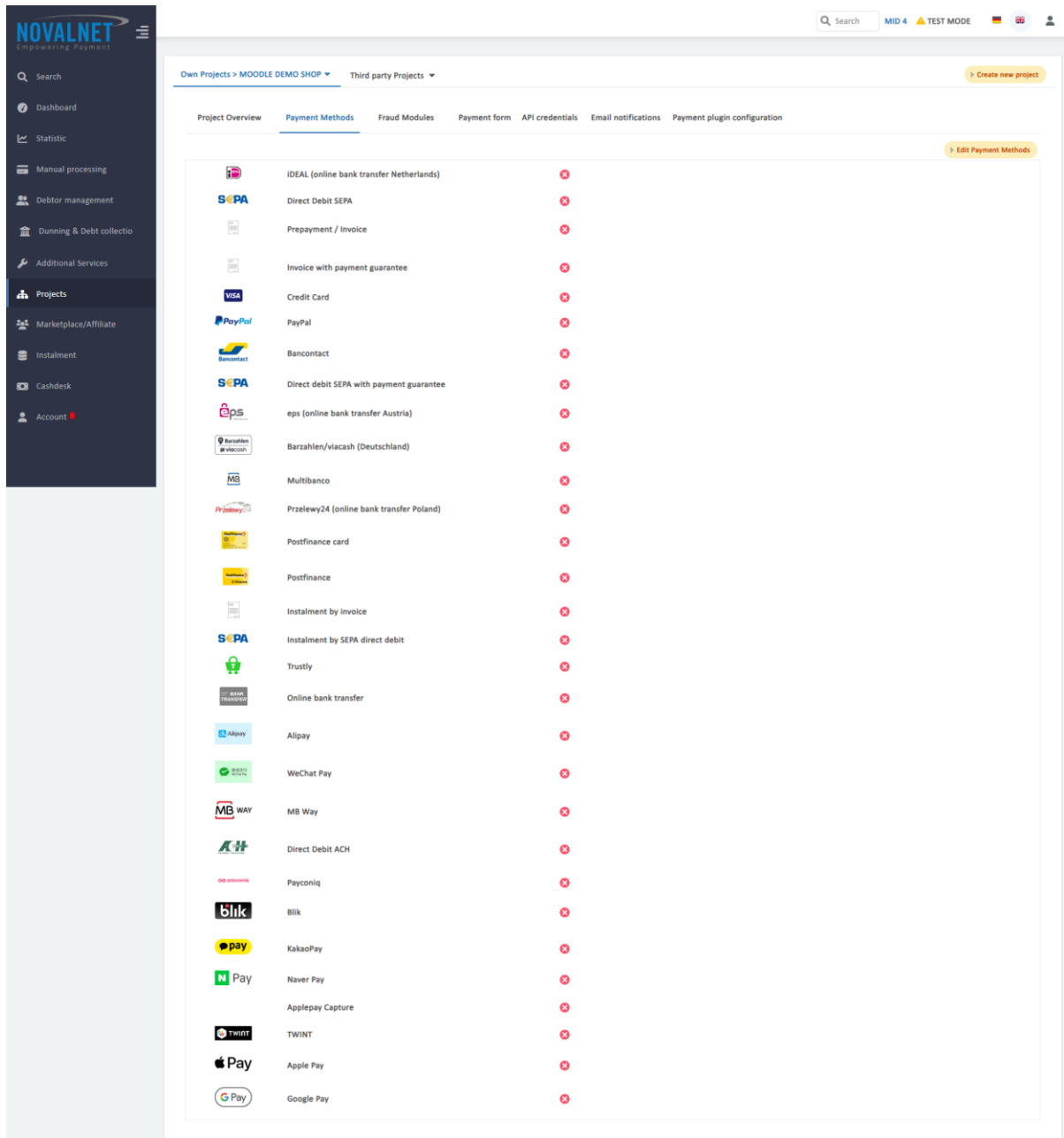


Figure 18

Next, select the preferred payment methods and click **Update** to activate them, as shown below.

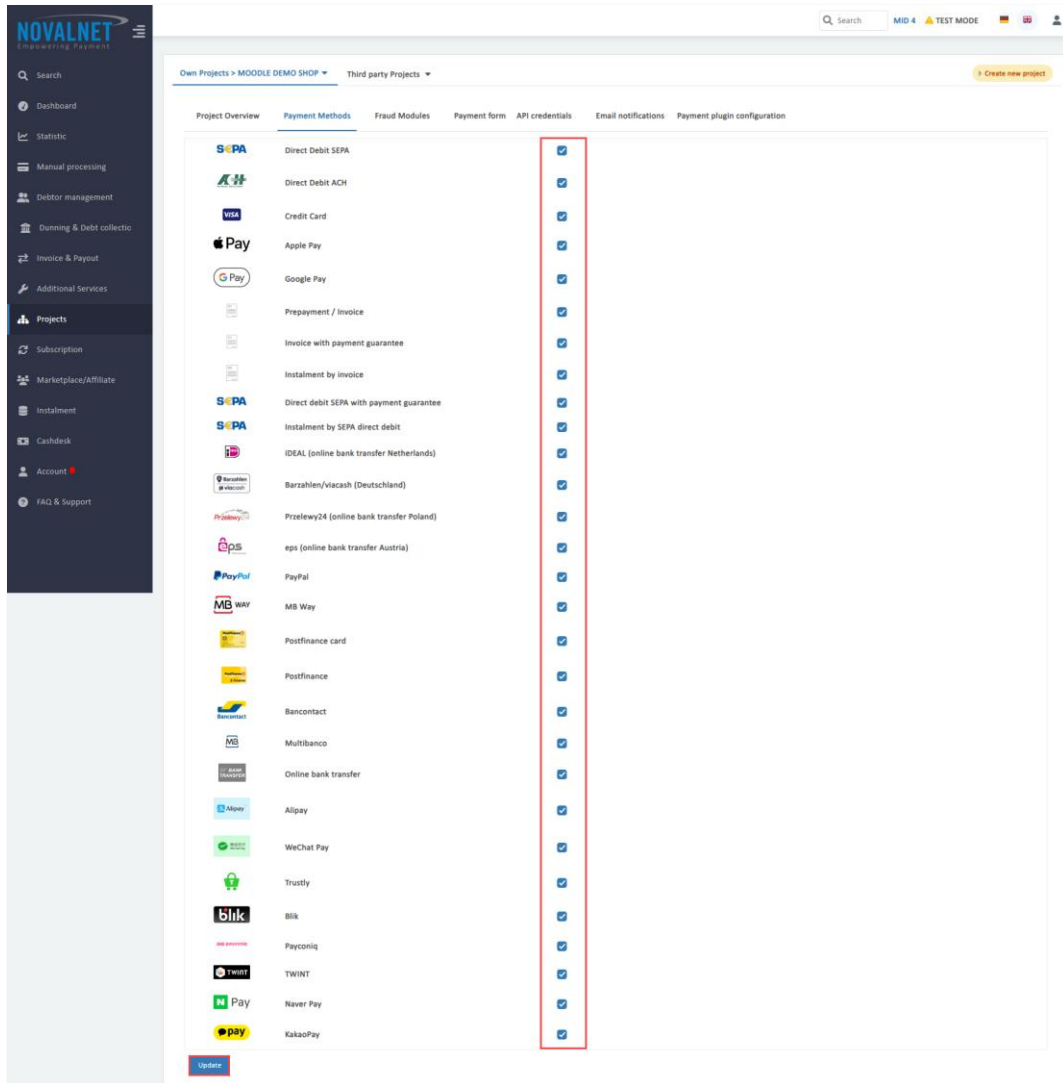


Figure 19

To use the Apple Pay payment method, go to **Payment Methods** → **Apple Pay** → **Configure** → **Add new domain** in the [Novalnet Admin Portal](#) as shown below.

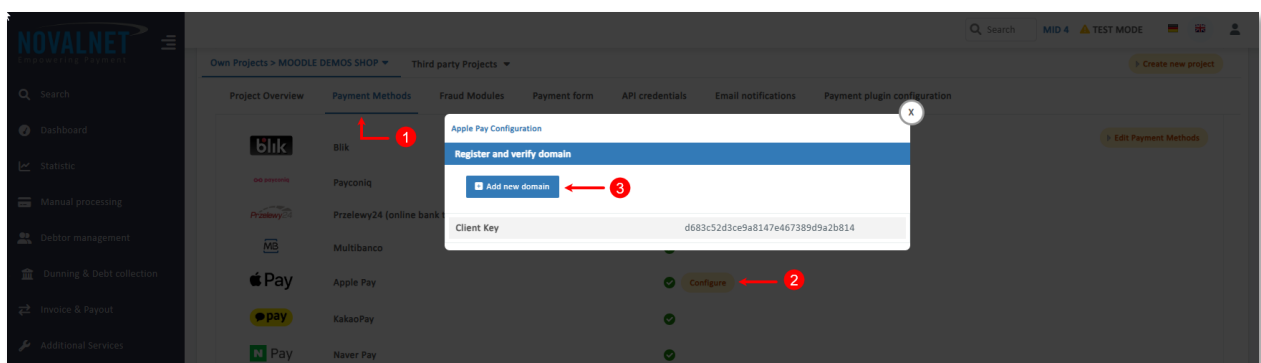


Figure 20

Then, paste the <https://paygate.novalnet.de> domain to enable **Apple Pay**, and click **Verify** as shown below

Add new domain

1 ——— 2
ADD NEW VERIFICATION

1 Provide the domain where the file will be hosted
Input the top-level domain (e.g. novalnet.com) or sub-domain (e.g. shop.novalnet.com) that you wish to enable Apple Pay for.

← 1

2 Download verification file... ← 2

3 Host the verification file
You'll need to host the verification file you downloaded above at your domain in the following location:
https://paygate.novalnet.de/.well-known/apple-developer-merchantid-domain-association

Please note that if the **.well-known** directory is not available, you have to create it.

← 3

Figure 21

🔑 **Please note:** The '**.well-known**' directory will be automatically created.

To use the **PayPal** payment method, configure the **PayPal API** details in the [Novalnet Admin Portal](#) as shown below.

NOVALNET Admin Portal

Own Projects > MOODLE DEMO SHOP Third party Projects

Project Overview **Payment Methods** Fraud Modules Payment form API credentials Email notifications Payment plugin configuration

PayPal ← 1

IDEAL (online bank transfer Netherlands) ✓ Configure ← 2

eps (online bank transfer Austria) ✓

giropay

Collection Assignment

Collection Credit

MB Multibanco

Przelewy24 (online bank transfer Poland)

Postfinance card

Postfinance ✓ Configure

Paypal Configuration

API User Name*

API Password*

API Signature*

← 3

You must have the "Reference Transactions" option activated at PayPal in your PayPal account, to process the subscription / follow-up payment (without end user interaction) through Novalnet.

Figure 22

To use the **PostFinance** payment method, configure **Ep2-Merchant ID** details in the [Novalnet Admin Portal](#) as shown below.

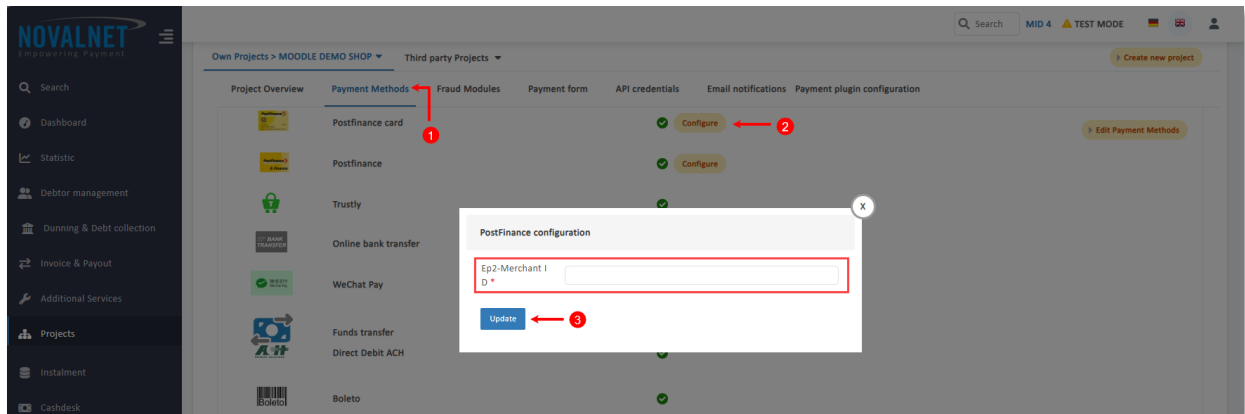


Figure 23

1.4 Payment Activation in the Moodle Shop System

After activating the payment methods in the [Novalnet Admin Portal](#), you must enable these payment methods in your shop admin panel to display them on your payment selection page. Navigate to **Site administration** → **Payment accounts** → **Novalnet** as shown below.

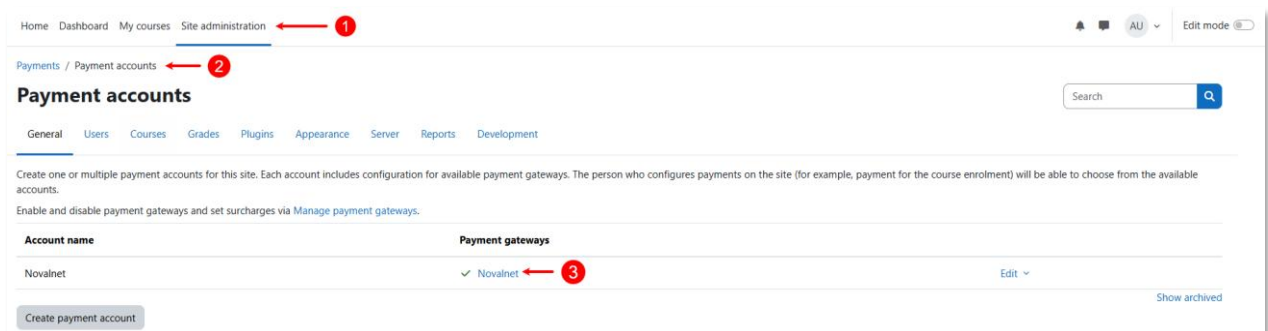


Figure 24

You can select payment options from the **Payment Methods** section to appear on the payment selection page. For instance, Direct Debit SEPA is displayed below.

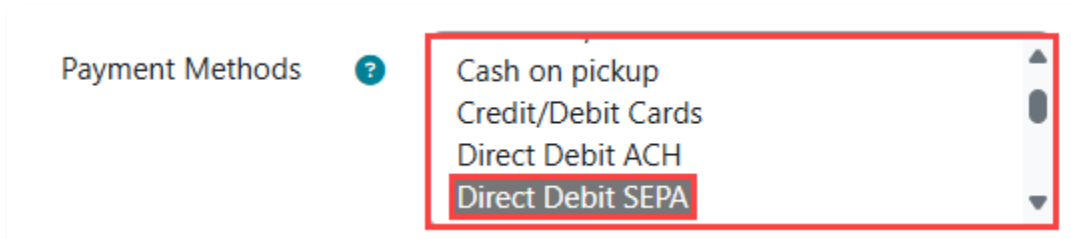



Figure 25


Once the payment methods are selected, they will be displayed as shown below


Home Dashboard My courses


Course Name: Complete Manual Testing & Course Fee: EUR 250.00
Select a payment method to authorize and complete your payment securely
Starting the payment will securely redirect you to the Novalnet secure page to complete your payment.


 Alipay


Pay with Alipay and secure online


 Bancontact


 Blik


 Barzahlen/viacash


 Credit/Debit Cards


 Direct Debit ACH


 eps


 Google Pay


 Direct Debit SEPA with payment guarantee


 Invoice with payment guarantee


 iDEAL


 Instalment by SEPA direct debit


 Instalment by invoice


 Prepayment


 MB Way


 Multibanco


 Online bank transfer


 Payconiq


 PayPal


 PostFinance E-Finance

 PostFinance Card

 Przelewy24

 Trustly

 TWINT

 WeChat Pay

Start payment

Figure 26

Refer to Chapter [4 ADDITIONAL CONFIGURATION](#) for more payment configurations.



If you have any recommendations or suggestions for improvement, kindly share your thoughts with us on technic@novalnet.de or call us at +49 89 9230683-19.

2 Customer detail creation using User profile fields

The Novalnet payment gateway requires some mandatory customer information to process the payment.

Follow the steps below to create custom fields for the user profile.

Step 1: Navigate to **Site administration** → **Users** → **User profile fields** as shown below

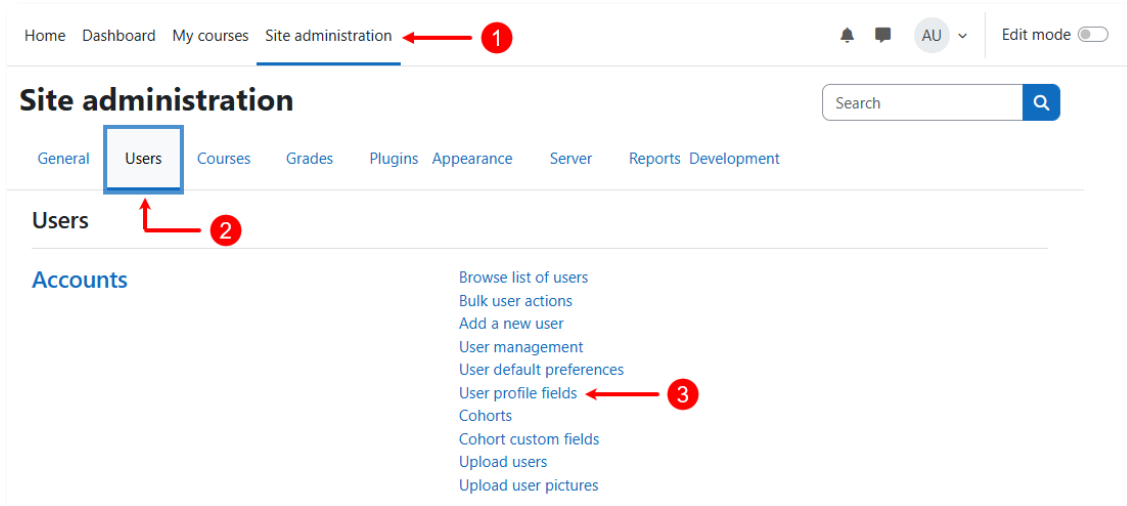


Figure 27

Step 2: Click the **Create a new profile field** and select the preferred type of the field

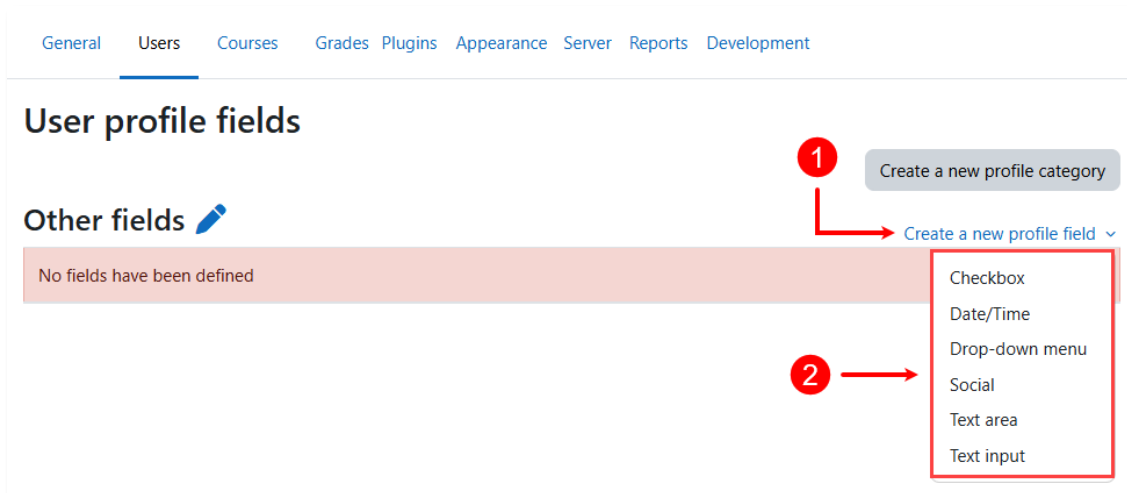


Figure 28

Step 3: For example, select **Text Input** as the type, configure the mandatory value, and click **Save** changes.

Figure 29

Step 4: Once changes are saved, the custom profile field will be generated, and it will display on the customer profile under **Other fields** as shown below

Figure 30

Step 5: Refer to and use the tabular column below for the other mandatory custom user profile, and follow the above steps to create it.

S.No	Short Name	Field Type	Name	Mandatory	Supported payment methods	Description
1	address	Text input	Address	Yes	All	Customer's street and house number
2	zipcode	Text input	Zip	Yes	All	Customer's postal code
3	city	Text input	City	Yes	All	Customer's city
4	country	Text input	Country	Yes	All	Customer's billing country

Important Note

- Mandatory Customer Details:** Please note that Novalnet requires customer details to be provided during the payment process. This is a mandatory requirement for the payment integration to function properly. For example, Address, City, Country, Zip
- Customization Support:** If you need assistance with customizing how customer details are collected or displayed, feel free to contact us at support@novalnet.de for support.
- To create the user profile, use only the **Short Name** value in the above tabular column.

3 TESTING AND GOING LIVE

Execute test transactions by navigating to **Site administration** → **Payment accounts** → **Novalnet**. Select the payment methods in the **Enable test mode** section. In test mode, the transaction amount will not be charged by Novalnet.

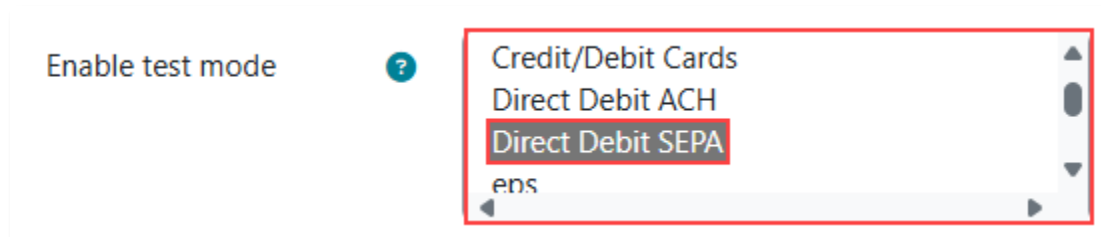


Figure 31

- Refer to the URL below for the Novalnet test payment data for testing:
<https://developer.novalnet.com/testing/>

Execute orders in LIVE MODE

To proceed with **LIVE** orders, don't forget to unselect the payment method.

If you have any recommendations or suggestions for improvement, kindly share your thoughts on further developing our payment plugin at technic@novalnet.de or call us at +49 89 9230683-19.

4 ADDITIONAL CONFIGURATION

4.1 Additional configuration for all the payment methods

For additional payment configuration settings for each payment method, navigate to **Site administration** → **Payment accounts** → **Novalnet**, select each payment method, and configure the required additional payment settings.

Payment due date (in days)

Payment due date (in days) refers to the duration (number of days) given for the buyer to complete the payment. The payment process and duration may differ for each payment method.

☛ *This option is available only for the following payment methods:*

Direct Debit SEPA, Payment by Invoice, Prepayment.



Figure 32

- ☛ For **Direct Debit SEPA**, enter the days after the payment is debited (between 3 and 14 days)
- ☛ For **Payment by Invoice**, enter the number of days the buyer gives to transfer the amount to Novalnet (must be greater than 7 days). If this field is blank, 14 days will be set by default.
- ☛ For **Prepayment**, enter the number of days the buyer gives to transfer the amount to Novalnet (must be greater than 7 days). If this field is blank, 14 days will be set by default.

Slip expiry date (in days)

Slip expiry date (in days) refers to the duration (number of days) given for the buyer to complete the payment. The payment process and duration may differ for each payment method.

☛ *This option is available only for the payment method: **Barzhalen/viacash**.*



Figure 33

- ☛ For **Barzhalen/viacash**, enter the number of days given to the buyer to pay at a nearby store. If this field is blank, 14 days will be set by default for slip expiry.

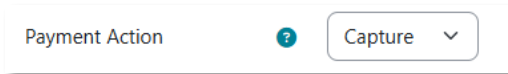
Payment Action (Debit immediately / Reserve funds for later)

You can choose between two options - **Capture** and **Authorize**, which are both explained below.

☛ *This option is available only for the following payment methods:*

Credit Card, Direct Debit SEPA, Direct debit SEPA with payment guarantee, Instalment by SEPA direct debit, Payment by Invoice, Invoice with payment guarantee, Instalment by invoice, PayPal, Direct debit ACH, Google Pay, and Apple Pay.

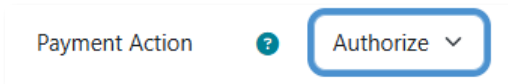
- ☛ **Capture** - This is the default setting where payments are directly executed, and funds are automatically transferred from the buyer's account to the merchant account. This can be changed as per your business requirements.



Payment Action ? Capture ▾

Figure 34

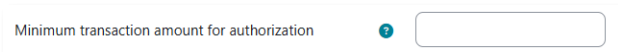
- ☛ **Authorize** - Payment details are verified while the funds are reserved, which will be captured later.



Payment Action ? Authorize ▾

Figure 35

- ☛ **Minimum transaction amount for authorization** - Transactions from this amount will be “authorized” (reserved) only and captured later. Leave the field blank to authorize all transactions.



Minimum transaction amount for authorization ?

Figure 36

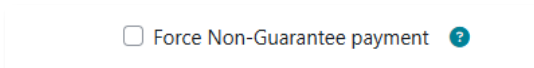
Guarantee payment configuration

- ☛ This option is available only for **Direct Debit SEPA with payment guarantee** and **Invoice with payment guarantee**.

When the basic requirements are met, Novalnet offers you the option to process payments as guarantee payments. For more information about guaranteed payments and basic requirements, please visit: <https://developer.novalnet.com/onlinepayments/aboutguarantee#basic-requirements>

Force Non-Guarantee payment

Enable this option to process payments as non-guarantee payments when the guarantee conditions are not met.



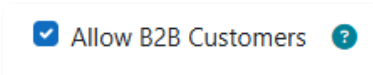
☐ Force Non-Guarantee payment ?

Figure 37

Allow B2B Customers

- ☛ This option is available only for **Direct Debit SEPA with payment guarantee**, **Invoice with payment guarantee**, **Instalment by Direct Debit SEPA**, and **Instalment by Invoice**.

Enabling this option will allow B2B buyers in your shop system.



☒ Allow B2B Customers ?

Figure 38

Instalment payments configuration

☛ This option is available only for **Instalment by Direct Debit SEPA** and **Instalment by Invoice**.

When the basic requirements are met, Novalnet offers you the option to process payments as instalment payments. For more information about instalment payments and basic requirements, please visit:

<https://developer.novalnet.com/onlinepayments/aboutinstalment#basic-requirements>

Instalment cycles

Instalment cycle refers to the pre-defined period for partial payments, allowing buyers to pay their total order amount in parts. The intervals or cycles vary based on the shop admin configuration.

Define which instalment cycles you wish to offer in your shop (e.g., 2 cycles, 3 cycles, 4 cycles, 6 cycles, etc.) and click **Save**. The buyer can then choose among these instalment cycles if they wish to pay in instalments.

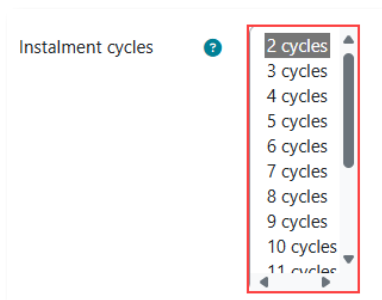


Figure 39

The pre-defined instalment details will be visible for the buyer under the chosen instalment payment method as shown below.

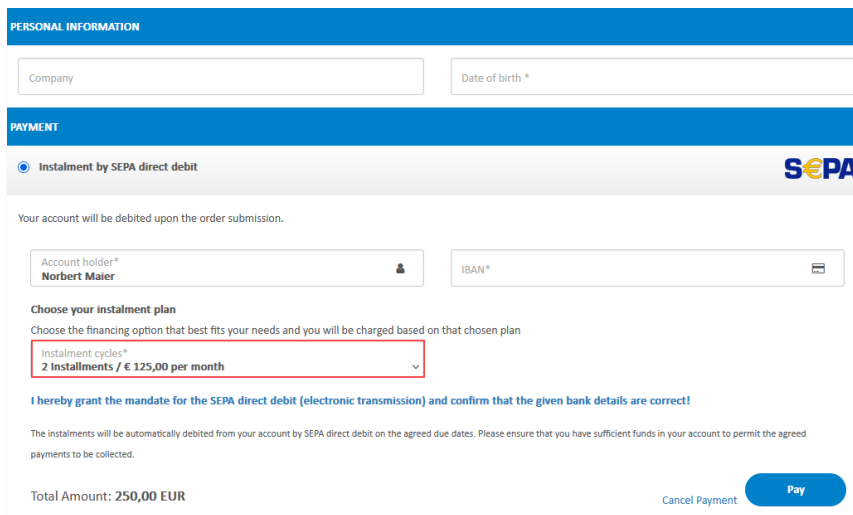


Figure 40

4.2 Additional Configuration for Credit/Debit Cards

Enforce 3D secure on payment outside EU

This option will authenticate all payments from cards issued outside the EU via 3DS 2.0 SCA.

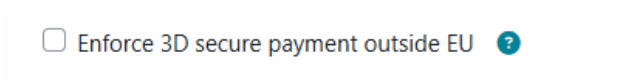


Figure 41

4.3 Additional Configuration for Google Pay Payment

Enforce 3D secure payment outside EU

This option will authenticate all payments from cards issued outside the EU via 3DS 2.0 SCA.

☐ Enforce 3D secure payment outside EU ?

Figure 42

5 UNINSTALLATION

5.1 Plugin Uninstallation

Follow the steps below to uninstall the Novalnet payment plugin from the Moodle shop.

Step 1: Navigate to **Site administration** → **Plugins** → **Manage payment gateways** from **Payment gateways** as shown below

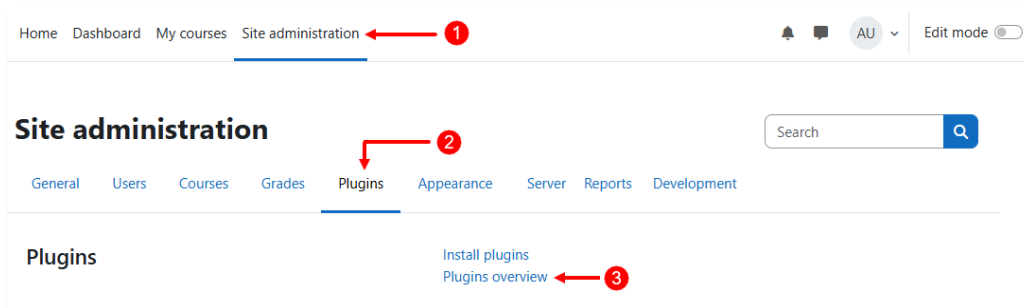


Figure 43

Step 2: Click to  disable the Novalnet payment plugin as shown below

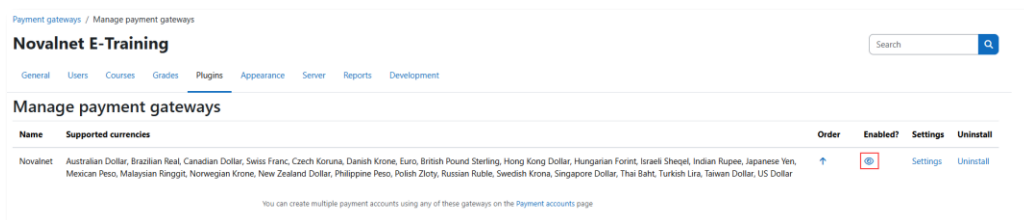


Figure 44

Step 3: After disabling, click **Uninstall** to uninstall the payment plugin as shown below

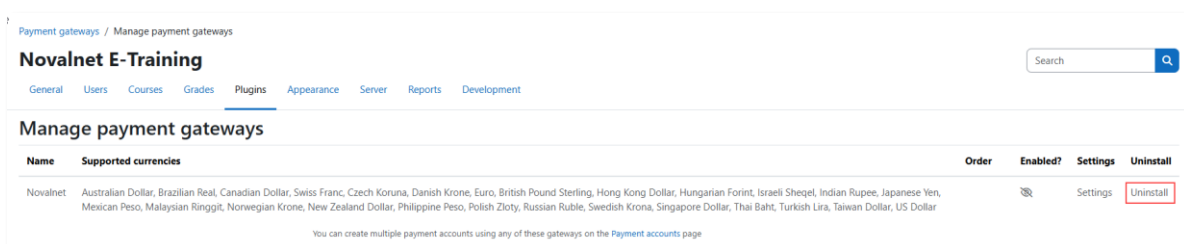
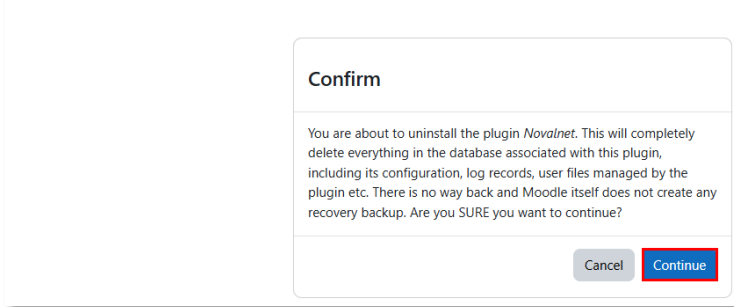


Figure 45

Step 4: Click **Continue** to uninstall the Novalnet payment plugin

Uninstalling Novalnet



The screenshot shows a confirmation dialog box titled "Confirm". The text inside reads: "You are about to uninstall the plugin *Novalnet*. This will completely delete everything in the database associated with this plugin, including its configuration, log records, user files managed by the plugin etc. There is no way back and Moodle itself does not create any recovery backup. Are you SURE you want to continue?". At the bottom right, there are two buttons: "Cancel" and "Continue". The "Continue" button is highlighted with a red border.

Figure 46

6 TECHNICAL SUPPORT THROUGH NOVALNET

For any questions or further inquiries, please contact one of the following departments per your requirements. Our in-house experts are ready to assist you in case of queries or issues.

For **installation assistance**, contact technic@novalnet.de or call +49 89 9230683-19.

For a **merchant account, new payment plugin, or additional payment methods**, please get in touch with sales@novalnet.de or call +49 89 9230683-20.

If you have any recommendations or suggestions for improvement, kindly share your thoughts with us at technic@novalnet.de or call us at +49 89 9230683-19.

For our License details, see the [Freeware License Agreement](#).