Analysis of ecommerce situation in the maple release

Overview

In order to assess the situation with ecommerce for maple, we at edunext started a development server using the tutor maple branches. This server includes tutor plus the mfe, discovery and ecommerce plugins.

The server is a t3.xlarge in AWS (Virginia Region).
IP: 35.172.195.176

We also created DNS records for this IP for anything in the `*.maple-btr.edunext.link` domain.

The following URLs are usable:

lms.maple-btr.edunext.link
studio.maple-btr.edunext.link
ecommerce.lms.maple-btr.edunext.link
apps.lms.maple-btr.edunext.link

Access

The server is accessible to everyone that was in the call on Thursday with the ssh-rsa keys you have on your github profile.

https://github.com/felipemontoya.keys
https://github.com/regisb.keys
https://github.com/BbrSofiane.keys
https://github.com/nedbat.keys
https://github.com/jfavellar90.keys
https://github.com/ghassanmas.keys
https://github.com/pdpinch.keys

Also to Donato Bracuto, member of the edunext support team who helped tremendously with getting this configured.

You should be able to connect using:

```
ssh ubuntu@ssh.maple-btr.edunext.link
```

In order to access the LMS, Studio or ecommerce you can use:

Superuser:
admin@btr.org -> BTRforthewin123

Regular student
student1@example.com -> btr123 (this student already bought the course, you might want to create a new user)

student3@example.com -> btr123 (this one has not yet bought anything. please don't complete the transaction with it)

Identified issues

1. The LMS intercepts redirections to buy the course and launches the verification MFE which we did not know how to turn off.

This can be seen at:
https://lms.maple-btr.edunext.link/courses/course-v1:demo+DM+2021_01/about

You can use student3@example.com -> btr123 and click the enroll button.

Everytime you get redirected to the account MFE.

https://lms.maple-btr.edunext.link/course_modes/choose/course-v1:demo+DM+2021_01/
creates a 302 redirection to
https://apps.lms.maple-btr.edunext.link/account/id-verification?course_id=course-v1:demo+DM+2021_01

And you are locked in that cycle.

Now, the old way of working for ecommerce was that the enroll button would take you to the ecommerce service at the path: /basket/add?sku=XXXXXX.

If you somehow where to type this directly at the navigation bar:
https://ecommerce.lms.maple-btr.edunext.link/basket/add/?sku=CCC8107

This takes you directly to the payment MFE not going through the verification flow. However if you click a link on the page taking you there, somehow the LMS intercepts the navigation as well and you end up at the account MFE again. There is a link "enroll :)" at [this](#) page to showcase the interaction.

2. The CSRF_TRUSTED_ORIGINS value for the ecommerce service is misconfigured.

Once you land at the payment MFE, you are presented with a paypal button that would not work, because the browser forbids the request to
https://ecommerce.lms.maple-btr.edunext.link/api/v2/checkout/
 for a CORS issue.

That is easy to fix. At the ecommerce service, the setting:

CSRF_TRUSTED_ORIGINS = [
        "https://apps.lms.maple-btr.edunext.link",
]

Should be instead

CSRF_TRUSTED_ORIGINS = [
        "apps.lms.maple-btr.edunext.link",
]

A behavior that django is changing in version 4.0 as per:
https://docs.djangoproject.com/en/3.2/ref/settings/#csrf-trusted-origins
https://docs.djangoproject.com/en/4.0/ref/settings/#csrf-trusted-origins

Once there and with valid Paypal credentials (we left some sandbox credentials installed), you can complete the paypal transaction and the order will be fulfilled and the course will appear in the dashboard.