# University of Nebraska - Computer Science Tutoring Portal

Release 0.0.1

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# **CSLC PORTAL BACKEND**

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# CHAPTER ONE

# **ABOUT**

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**CHAPTER** 

**TWO** 

# **API ENDPOINTS**

# 2.1 Course

```
class api.endpoints.course.APICourseList(**kwargs)
    Bases: APIView

get(request: Request) → Response

get_querystring(request: Request) → QueryDict | Any

post(request: Request) → Response

renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class 'rest_framework.renderers.JSONRenderer'>, <class 'rest_framework.renderers.HTMLFormRenderer'>)

sanitize(querystring: str) → str

serializer_class
    alias of CourseSerializer
```

# 2.2 Issues

```
class api.endpoints.issue.APIIssueDetail(**kwargs)
    Bases: APIView
    get(request: Request, pk: str | Any = Ellipsis) → Response
    put(request: Request, pk: str | Any = Ellipsis) → Response
    query_obj(pk: str) → QuerySet | Any

class api.endpoints.issue.APIIssueView(**kwargs)
    Bases: APIView
    get(request: Request) → Response
    post(request: Request) → Response
    renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class 'rest_framework.renderers.JSONRenderer'>, <class 'rest_framework.renderers.HTMLFormRenderer'>)
```

#### serializer\_class

alias of IssueSerializer

# 2.3 Professor

```
class api.endpoints.professor.APIProfessorDetail(**kwargs)
     Bases: APIView
     get(request: Request, professor\_pk: str) \rightarrow Response
     put(request: Request, professor\_pk: str) \rightarrow Response
     query_obj(pk: str) \rightarrow QuerySet
          Add more fish or shrimp to the tank.
              Parameters
                   • inhabitant – The type of inhabitant, either shrimp of fish
                   • quantity – The number of fish or shrimp to be added
              Raises
                  TankIsFullError – if the tank is already full
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     serializer_class
          alias of ProfessorSerializer
class api.endpoints.professor.APIProfessorView(**kwargs)
     Bases: APIView
     get(request: Request) \rightarrow Response
     get_querystring(request: Request) → QueryDict | Any
     post(request: Request, search: str \mid None = None) \rightarrow Response
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class</pre>
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     sanitize(querystring: str) \rightarrow str
     serializer_class
          alias of ProfessorSerializer
```

# 2.4 Section

```
class api.endpoints.section.APISectionDetail(**kwargs)
     Bases: APIView
     get(request: Request, section\_id: str) \rightarrow Response
     put(request: Request, section\_id: str) \rightarrow Response
     query_obj (pk: str) \rightarrow QuerySet | None
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class</pre>
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     serializer_class
          alias of SectionSerializer
class api.endpoints.section.APISectionView(**kwargs)
     Bases: APIView
     get(request: Request) \rightarrow Response
     get_querystring(request: Request) → QueryDict | Any
     post(request: Request) \rightarrow Response
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class</pre>
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     sanitize(querystring: str) \rightarrow str
     serializer_class
          alias of SectionSerializer
```

### 2.5 Ticket

```
class api.endpoints.ticket.APITicketDetail(**kwargs)

Bases: APIView

get(request: Request, ticket_id: int) → Response

patch(request: Request, ticket_id: int) → Response

renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class 'rest_framework.renderers.JSONRenderer'>, <class 'rest_framework.renderers.HTMLFormRenderer'>)

serializer_class

alias of TicketGetSerializer

class api.endpoints.ticket.APITicketView(**kwargs)

Bases: APIView
```

2.4. Section 5

```
\begin{subarray}{l} {\tt get\_quest: Request)} \to {\tt Response} \\ {\tt get\_querystring(request: Request)} \to {\tt Any} \\ {\tt post(request: Request)} \to {\tt Response} \\ {\tt renderer\_classes} = (<&\tt class 'rest\_framework.renderers.BrowsableAPIRenderer'>}, <&\tt class 'rest\_framework.renderers.JSONRenderer'>}, <&\tt class 'rest\_framework.renderers.HTMLFormRenderer'>}) \\ {\tt sanitize(querystring: str)} \to {\tt str} \\ {\tt serializer\_class} \\ {\tt alias of TicketSerializer} \\ \end{subarray}
```

## 2.6 User

```
class api.endpoints.user.APIUserDetail(**kwargs)
     Bases: APIView
     get(request: Request, user\_id: str) \rightarrow Response
     put(request: Request, user\_id: str) \rightarrow Response
     query_obj (pk: str) \rightarrow QueryDict | Any
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class</pre>
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     serializer class
          alias of UserSerializer
class api.endpoints.user.APIUserView(**kwargs)
     Bases: APIView
     get(request: Request) \rightarrow Response
     get_querystring(request: Request) → QueryDict | Any
     post(request: Request) \rightarrow Response
     renderer_classes = (<class 'rest_framework.renderers.BrowsableAPIRenderer'>, <class</pre>
     'rest_framework.renderers.JSONRenderer'>, <class</pre>
     'rest_framework.renderers.HTMLFormRenderer'>)
     sanitize(querystring: str) \rightarrow str
     serializer_class
          alias of UserSerializer
```

**CHAPTER** 

**THREE** 

# **DATABASE MODELS**

# 3.1 Course

class api.models.course.Course(\*args, \*\*kwargs)

Bases: Model

The course table holds all information about a specific course.

**Important:** A course can have many sections, while a section can only be attributed to a single course. The course represents what you would see in a catalog (e.g., CIST-1400 & CSCI-1620), and sections are specific instances of the course (online, in person, etc.). Unlike sections, a course does not have a directly assigned professor; this data is stored in sections.

#### course\_department

The department code of the course (e.g., "CSCI").

**Type** 

CharField

#### course\_name

The name of the course as it appears

Type

 ${\tt CharField}$ 

in the catalog

**Type** 

e.g., "Operating Systems"

## course\_id

The unique identifier for the course.

**Type** 

IntegerField

#### course\_code

The code associated with the course (e.g., "4500").

**Type** 

CharField

#### Manager:

generic (Manager): The default manager for the Course model.

#### **Example**

Examples can be given using either the Example or Examples sections. Sections support any reStructuredText formatting, including literal blocks:

```
$ python example_google.py
```

#### **Todo:**

- For module TODOs
- You have to also use sphinx.ext.todo extension

#### exception DoesNotExist

Bases: ObjectDoesNotExist

#### exception MultipleObjectsReturned

Bases: MultipleObjectsReturned

#### course\_code

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### course\_department

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### course\_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### course\_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

### generic: Manager = <django.db.models.manager.Manager object>

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### section set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### ticket\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### usertocoursetaken

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### usertocoursetutored

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
    toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### 3.2 Issues

```
class api.models.issue.IssueManager(*args, **kwargs)
     Bases: Manager
     get_issues() → QuerySet

class api.models.issue.Issues(*args, **kwargs)
     Bases: Model
```

Issues are a field in the ticket that a user will choose to describe the issue they are having. This allows for ticket issues to be comprehensively studied, and provides cleaner data as opposed to users entering their issue type manually. With this style of ticket issue, data analysis can be done more rapidly and with a higher confidence than previous methods allowed. The fields in the table are the problem type (i.e. homework), the severity (used for data collection purposes). The admin is able to quickly add and modify the issues with no consequence to the attributed tickets.

#### exception DoesNotExist

Bases: ObjectDoesNotExist

# ${\tt exception \ Multiple Objects Returned}$

Bases: MultipleObjectsReturned

3.2. Issues 9

```
generic: Manager = <django.db.models.manager.Manager object>
get_severity_display(*, field=<django.db.models.fields.CharField: severity>)
```

#### issue\_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### problem\_type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### severity

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### ticket\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

# 3.3 Professor

class api.models.professor.Professor(\*args, \*\*kwargs)

Bases: Model

The professor table holds all details attributed to a professor. This table contains a professors first name, their last name, their full name, their email address, whether they are currently active (see "semester" for more detail on that), and their prof. ID. Since the professor ID is guranteed to be unique, we have opted to use this as the primary key for the table. As such, professors are searchable by their unique ID, and the serializer will likewise return the str representation as well.

#### exception DoesNotExist

Bases: ObjectDoesNotExist

# ${\tt exception \ Multiple Objects Returned}$

Bases: MultipleObjectsReturned

#### email

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### first\_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### full\_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
generic = <django.db.models.manager.Manager object>
```

#### is\_active

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### last\_name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
professor = <api.models.professor.ProfessorManager object>
```

### professor\_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### section\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### ticket\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

class api.models.professor.ProfessorManager(\*args, \*\*kwargs)

```
Bases: Manager get\_professor(professor: str) \rightarrow QuerySet get\_professors() \rightarrow QuerySet
```

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# 3.4 Section

# 3.5 Ticket

```
class api.models.ticket.Ticket(*args, **kwargs)
    Bases: Model
```

The base class for tickets in the database. This is where the meat of the application purpose lies, as this table will hold all fields associated with a specific ticket. These fields are the professor, the section, the semester, the issue, the student who submitted the ticket, the tutor who primarily helped with the ticket, the tutor(s) who assisted the primary tutor, the name of the student, whether it was a successful ticket, the time the ticket was created, the date the ticket was created, the time the ticket was closed, additional tutor comments, and if the ticket was reopened after it was closed.

```
CLOSED = 'CLOSED'
exception DoesNotExist
    Bases: ObjectDoesNotExist

exception MultipleObjectsReturned
    Bases: MultipleObjectsReturned

NEW = 'NEW'
OPENED = 'OPENED'
STATUS_CHOICES = [('NEW', 'New'), ('OPENED', 'Opened'), ('CLOSED', 'Closed')]
```

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### course

closed\_at

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOne-ToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

## course\_id

#### created\_at

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### description

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed

```
generic = <django.db.models.manager.Manager object>
```

get\_status\_display(\*, field=<django.db.models.fields.CharField: status>)

#### id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### issue

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOne-ToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

#### issue\_id

#### messages\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### opened\_at

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### professor

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOne-ToOneDescriptor subclass) relation.

In the example:

3.5. Ticket 13

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

# professor\_id

#### status

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### student

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOne-ToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

#### student\_id

```
ticket = <api.models.ticket.TicketManager object>
```

#### title

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### tutor

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOne-ToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

#### tutor\_id

#### updated\_at

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### was\_reopened

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

## was\_successful

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
class api.models.ticket.TicketManager(*args, **kwargs)
```

Bases: Manager

```
get_active() → QuerySet
get_all() → QuerySet
get_completed() → QuerySet
get_course(course: str) → QuerySet
get_professor(professor: str) → QuerySet
get_section(section: str) → QuerySet
get_student(student: str) → QuerySet
get_successful() → QuerySet
get_tutor(tutor: str) → QuerySet
get_unclaimed() → QuerySet
```

# 3.6 User

```
class api.models.user.AdminManager(*args, **kwargs)
     Bases: Manager
     get_admins() → QuerySet

class api.models.user.StudentManager(*args, **kwargs)
     Bases: Manager
     get_student(name: str) → QuerySet
     get_students() → QuerySet

class api.models.user.TutorManager(*args, **kwargs)
     Bases: Manager
     get_tutor(name: str) → QuerySet

     get_tutors() → QuerySet

class api.models.user.User(*args, **kwargs)
     Bases: Model
```

Generic user model for all active users of the application. Flags are used to indicate whether a user is an admin, a tutor, or a regular student. This currently will hold all data, such as tutor and admin specific data, but this might lead to empty fields within many of the objects in the table. This will be updated in the future to allow specific roles to be relations in the database, thus preventing empty fields (i.e. empty cells).

# exception DoesNotExist

Bases: ObjectDoesNotExist

#### MSOID

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

3.6. User 15

#### exception MultipleObjectsReturned

Bases: MultipleObjectsReturned

admin = <api.models.user.AdminManager object>

#### courses\_taken

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
   toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### courses\_tutoring

Accessor to the related objects manager on the forward and reverse sides of a many-to-many relation.

In the example:

```
class Pizza(Model):
   toppings = ManyToManyField(Topping, related_name='pizzas')
```

Pizza.toppings and Topping.pizzas are ManyToManyDescriptor instances.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### email

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
generic = <django.db.models.manager.Manager object>
```

#### hour\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### is\_active

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### is\_admin

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### is\_tutor

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### is\_working

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### messages\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

#### name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

```
student = <api.models.user.StudentManager object>
```

#### student\_nuid

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### student\_ticket

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

```
tutor = <api.models.user.TutorManager object>
```

#### tutor\_ticket

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
   parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

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#### user\_bio

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

#### workinghours\_set

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Parent.children is a ReverseManyToOneDescriptor instance.

Most of the implementation is delegated to a dynamically defined manager class built by create\_forward\_many\_to\_many\_manager() defined below.

# CHAPTER

# **API SCRIPTS**

**CHAPTER** 

**FIVE** 

# **API CONFIG**

# 5.1 Settings

# 5.2 base.asgi module

ASGI config for University-Nebraska-Tutor-Portal project.

It exposes the ASGI callable as a module-level variable named application.

For more information on this file, see https://docs.djangoproject.com/en/4.2/howto/deployment/asgi/

# 5.3 base.settings module

Settings for University-Nebraska-Tutor-Portal project.

# 5.4 base urls module

URL configuration for University-Nebraska-Tutor-Portal project.

#### The urlpatterns list routes URLs to views. For more information please see:

https://docs.djangoproject.com/en/4.2/topics/http/urls/

## **Examples: Function views**

- 1. Add an import: from my\_app import views
- 2. Add a URL to urlpatterns: path(", views.home, name='home')

#### **Class-based views**

- 1. Add an import: from other\_app.views import Home
- 2. Add a URL to urlpatterns: path('', Home.as\_view(), name='home')

# **Including another URLconf**

- 1. Import the include() function: from django.urls import include, path
- 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))

# 5.5 base.wsgi module

WSGI config for University-Nebraska-Tutor-Portal project.

It exposes the WSGI callable as a module-level variable named  ${\tt application}.$ 

For more information on this file, see https://docs.djangoproject.com/en/4.2/howto/deployment/wsgi/

# 5.6 Module contents

# **CHAPTER**

# SIX

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