

DAOS

Entité : UE

```
@Entity
@Data @NoArgsConstructor @AllArgsConstructor
public class UE {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String libelle;
    private String code;
    private int credit;
    private int coefficient;
    private String description;
    private Date dateCreation;
    @ManyToOne
    private Utilisateur utilisateur;
    @OneToMany(mappedBy = "ue")
    private Collection<EC> ecs;
    @OneToMany(mappedBy = "ue")
    private Collection<Module> modules;
}
```

Repository : UE

```
@Repository
public interface UERepository extends JpaRepository<UE, Long> {

    1 usage

    @Query("SELECT e FROM EC e WHERE e.ue = ?1")
    List<EC> findByUE(UE ue);

}
```

Service : UE

```
@Service
@Transactional
public class UEService {

    6 usages
    @Autowired
    private UERepository ueRepository;

    1 usage
    public List<UE> lister_UE(){
        return ueRepository.findAll();
    }

    1 usage
    public UE rechercher_UE(Long id){
        return ueRepository.findById(id).get();
    }
}
```

```
1 usage
public UE ajouter_UE(UE ue){
    return ueRepository.save(ue);
}

1 usage
public UE modifier_UE(UE ue, Long id){
    ue.setId(id);
    return ueRepository.save(ue);
}

1 usage
public void supprimer_UE(Long id) { ueRepository.deleteById(id); }

public List<EC> lister_EC_UE(UE ue) { return ueRepository.findByUE(ue); }
}
```

RestController : UE

```
@CrossOrigin(origins = "*", allowedHeaders = "*")
@RestController
@RequestMapping("/maquette")
public class ueRestController {

    5 usages
    @Autowired
    private UEService ueService;

    @GetMapping(path = "/ue")
    public List lister_ue(){
        return ueService.lister_UE();
    }

    @GetMapping(path = "/ue/{id}")
    public UE rechercher_ue(@PathVariable Long id){
        return ueService.rechercher_UE(id);
    }
}
```

```
@PostMapping(path = "/ue")
public UE ajouter_ue(@RequestBody UE ue){
    return ueService.ajouter_UE(ue);
}

@PutMapping(path = "/ue/{id}")
public UE modifier_ue(@RequestBody UE ue, @PathVariable Long id){
    return ueService.modifier_UE(ue, id);
}

@DeleteMapping(path = "/ue/{id}")
public void supprimer_ue(@PathVariable Long id){
    ueService.supprimer_UE(id);
}
}
```

Postman / Lister tout les UE

localhost:8084/maquette/ue

Save

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (8)

Test Results

Status: 200 OK

Time: 943 ms

Size: 1.2 KB

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 [
2   {
3     "id": 1,
4     "libelle": "Reseaux et Telecoms",
5     "code": "INF351",
6     "credit": 8,
7     "coefficient": 4,
8     "description": "",
9     "dateCreation": "2024-01-21T22:50:02.185+00:00",
10    "utilisateur": null,
11    "ecs": [],
12    "modules": []
13  },
14  ]
```

Postman / Ajouter un UE

The screenshot displays the Postman application interface. At the top, the URL bar shows `localhost:8084/maquette/ue`. Below this, the request method is set to **POST**. The request body is formatted as JSON and contains the following data:

```
{
  "libelle": "Architecture Oriente Service",
  "code": "INF363",
  "credit": 8,
  "coefficient": 4,
  "description": "",
  "dateCreation": "2024-01-08T23:06:50.783+00:00",
  "utilisateur": null,
  "ecs": [],
  "modules": []
}
```

The response section at the bottom shows a **200 OK** status with a response body:

```
{
  "id": 6,
  "libelle": "Architecture Oriente Service",
  "code": "INF363",
  "credit": 8,
  "coefficient": 4,
  "description": "",
  "dateCreation": "2024-01-08T23:06:50.783+00:00",
  "utilisateur": null,
  "ecs": [],
  "modules": []
}
```

Additional interface details include a 'Save' button, a 'Send' button, and tabs for Params, Authorization, Headers (8), Body, Pre-request Script, Tests, and Settings. The response status bar indicates a time of 243 ms and a size of 450 B.

Postman / Rechercher un UE

The screenshot shows the Postman interface for a GET request to `localhost:8084/maquette/ue/5`. The request is successful, returning a 200 OK status with a response time of 51 ms and a size of 445 B. The response body is displayed in JSON format, showing the details of a user entity.

Request: `GET localhost:8084/maquette/ue/5`

Response Status: 200 OK, Time: 51 ms, Size: 445 B

Response Body (JSON):

```
{
  "id": 5,
  "libelle": "Humanites et Entreprise",
  "code": "INF355",
  "credit": 6,
  "coefficient": 3,
  "description": "",
  "dateCreation": "2024-01-21T22:50:02.330+00:00",
  "utilisateur": null,
  "ecs": [],
  "modules": []
}
```

Key	Value	Description	Bulk Edit
Key	Value	Description	

Postman / Modifier un UE

The screenshot displays the Postman interface for a PUT request. The URL bar shows `localhost:8084/maquette/ue/5`. The request method is set to **PUT**. The request body is a JSON object with the following fields:

```
1 {
2   "libelle": "Stage ou Projet",
3   "code": "INF355",
4   "credit": 6,
5   "coefficient": 3,
6   "description": "",
7   "dateCreation": "2024-01-21T22:50:02.330+00:00",
8   "utilisateur": null,
9   "ecs": [],
10  "modules": []
11 }
```

The response section shows the status **200 OK**, time **87 ms**, and size **437 B**. The response body is a JSON object with the following fields:

```
1 {
2   "id": 5,
3   "libelle": "Stage ou Projet",
4   "code": "INF355",
5   "credit": 6,
6   "coefficient": 3,
7   "description": "",
8   "dateCreation": "2024-01-21T22:50:02.330+00:00",
9   "utilisateur": null,
10  "ecs": [],
11  "modules": []
12 }
```

Postman / Supprimer un UE

localhost:8084/maquette/ue/5

Save

DELETE

localhost:8084/maquette/ue/5

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

This request does not have a body

Body

Cookies

Headers (7)

Test Results

Status: 200 OK

Time: 40 ms

Size: 212 B

Save Response

Pretty

Raw

Preview

Visualize

Text

1

Frontend : JQuery

```
▼ DAOS_GE_UASZ
  ▼ CSS
    # bootstrap.css
    # buttons.dataTables.min.css
    # jquery.dataTables.min.css
  ▼ html
    <> ue.html
  ▼ js
    JS bootstrap.js
    JS dataTable.buttons.min.js
    JS jquery-3.7.0.js
    JS jquery.dataTables.min.js
  ▼ script
    JS ue.js
```

ue.html (head)

```
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="../../css/bootstrap.css"/>
  <link rel="stylesheet" href="../../css/buttons.dataTables.min.css"/>
  <link rel="stylesheet" href="../../css/jquery.dataTables.min.css" />

  <script src="../../js/jquery-3.7.0.js"></script>
  <script src="../../js/bootstrap.js"></script>

  <script src="../../js/dataTables.buttons.min.js"></script>
  <script src="../../js/jquery.dataTables.min.js"></script>

  <script src="../../script/ue.js"></script>

  <title>Liste des UE</title>
</head>
```

Vue : ue.html – Lister UE

La liste des UE

Ajouter UE

Show 10 ▾ entries

Search:

Code ▴ ▾	Libelle ▴ ▾	Credits ▴ ▾	Coefficient ▴ ▾	Operations ▴ ▾	Details ▴ ▾
INF351	Reseaux et Telecoms	8	4	Modifier Supprimer	Voir
INF352	Genie Logiciel 1	8	4	Modifier Supprimer	Voir
INF353	Technologies embarques et Mobiles (1)	8	4	Modifier Supprimer	Voir
INF354	Gestions de donnees structurees	8	4	Modifier Supprimer	Voir
INF355	Humanites et Entreprise	6	3	Modifier Supprimer	Voir

Showing 1 to 5 of 5 entries

Previous

1

Next

```
<!-- Debut lister tout les UE -->
<div class="table-responsive">
  <table class="table table-bordered table-striped" id="table_UE">
    <thead>
      <tr>
        <th>Code</th>
        <th>Libelle</th>
        <th>Credits</th>
        <th>Coefficient</th>
        <th>Operations</th>
        <th>Details</th>
      </tr>
    </thead>
    <tbody>

  </tbody>
  </table>
</div>
<!-- Fin lister tout les UE -->
```

```

$('#table_UE').dataTable().fnDestroy();
$.ajax({
  type: "GET",
  url: "http://localhost:8084/maquette/ue",
  dataType: 'json',
  success: function (data) {
    $('#table_UE').dataTable({
      data : data,
      columns : [
        { data : 'code'},
        { data : 'libelle'},
        { data : 'credit' },
        { data : 'coefficient' },
        {
          data : null,
          render : function(data, type,full, meta)
          {
            return "<button class='btn btn-info btn-sm' onclick='modifier_UE(\"+data.id+\")' >Modifier</button>"+
              " <button class='btn btn-danger btn-sm' onclick='supprimer_UE(\"+data.id+\")' >Supprimer</button>";
          },
        },
        {
          data : null,
          render : function(data, type,full, meta)
          {
            return "<a class='btn btn-primary btn-sm' href='details_ue.html'> Voir </a>";
          }
        }
      ],
      fnCreatedRow : function( nRow, data, iDataIndex ) {
        $(nRow).attr('id', "ligne"+data.id);
      },
    });
  }
});

```

Vue : ue.html – Ajouter UE

Show 10 ▾ entries

Code	Libelle
INF351	Reseaux et Telecoms
INF352	Genie Logiciel 1
INF353	Technologies embarques
INF354	Gestions de donnees str
INF355	Humanites et Entreprise

Showing 1 to 5 of 5 entries

Search:

	Details
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir

[Previous](#) [1](#) [Next](#)

Ajouter un UE

Code

Libelle

Credits

Coefficient

Ajouter

Annuler


```

$("#btn_Ajouter_UE").click( function(){
    code = $('#inpt_Ajt_UE_Code').val();
    libelle = $('#inpt_Ajt_UE_Libelle').val();
    credit = $('#inpt_Ajt_UE_Credit').val();
    coefficient = $('#inpt_Ajt_UE_Coefficient').val();
    ue = { code : code , libelle : libelle , credit: credit , coefficient : coefficient };
    $.ajax({
        type: "POST",
        url: "http://localhost:8084/maquette/ue",
        data: JSON.stringify(ue),
        contentType: "application/json",
        success: function (data) {
            var u = data;
            var ligne = "<tr id='ligne"+u.id+"' >"+
                "<td>"+u.code+"</td>"+
                "<td>"+u.libelle+"</td>"+
                "<td>"+u.credit+"</td>"+
                "<td>"+u.coefficient+"</td>"+
                "<td>"+
                "<button class='btn btn-info btn-sm' onclick='modifier_UE(\""+u.id+"')' >Modifier</button> "+
                "<button class='btn btn-danger btn-sm' onclick='supprimer_UE(\""+u.id+"')' >Supprimer</button>"+
                "</td>"+
                "<td>"+
                "<a class='btn btn-primary btn-sm' href='details_ue.html'> Voir </a>"
                "</td>"+
            "</tr>";
            $("#table_UE").prepend(ligne);
            $('#inpt_Ajt_UE_Code').val("");
            $('#inpt_Ajt_UE_Libelle').val("");
            $('#inpt_Ajt_UE_Credit').val("");
            $('#inpt_Ajt_UE_Coefficient').val("");
            $('#form_Ajouter_UE').modal('hide');
        }
    });
});

```

Vue : ue.html – Modifier UE

Show 10 ▾ entries

Code	Libelle
INF351	Reseaux et Telecoms
INF352	Genie Logiciel 1
INF353	Technologies embarques
INF354	Gestions de donnees str
INF355	Humanites et Entreprise

Showing 1 to 5 of 5 entries

Modifier UE

Code

INF351

Libelle

Reseaux et Telecoms

Credits

8

Coefficient

4

Modifier

Annuler

Search:

	Details
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir

st

Previous

1

Next

Last

```

<!-- Debut popup modifier un UE -->
<div data-dismiss="modal">
  <div class="modal fade" id="form_Modifier_UE">
    <div class="modal-dialog" >
      <div class="modal-content panel-info" >
        <!--modal Header-->
        <div class="modal-header panel-heading" >
          <button type="button" class="close" data-dismiss="modal">x</button>
          <h4 class="modal-title" style="text-align: center">Modifier UE</h4>
        </div>
        <!--modal Body-->
        <form>
          <div class="modal-body" >
            <div style="display: none">
              <input name="id" id="inpt_Mdf_UE_Id" />
            </div>
            <div class="form-group">...
            </div>
            <div class="form-group">...
            </div>
            <div class="form-group">...
            </div>
            <div class="form-group">...
            </div>
          </div>
          <!--modal Footer-->
          <div class="modal-footer" >...
          </div>
        </form>
      </div>
    </div>
  </div>
</div>
<!-- Fin popup modifier un UE -->

```

```

$(function(){
    modifier_UE= function (id) {
        $('#inpt_Mdf_UE_Id').val("");
        $('#inpt_Mdf_UE_Code').val("");
        $('#inpt_Mdf_UE_Libelle').val("");
        $('#inpt_Mdf_UE_Credit').val("");
        $('#inpt_Mdf_UE_Coefficient').val("");
        $.ajax({
            type: "GET",
            url: "http://localhost:8084/maquette/ue/"+id,
            dataType: 'json',
            success: function (data) {
                var u = data;
                $('#inpt_Mdf_UE_Id').val(u.id);
                $('#inpt_Mdf_UE_Code').val(u.code);
                $('#inpt_Mdf_UE_Libelle').val(u.libelle);
                $('#inpt_Mdf_UE_Credit').val(u.credit);
                $('#inpt_Mdf_UE_Coefficient').val(u.coefficient);
                $('#form_Modifier_UE').modal('show');
            }
        });
    }
});

```

```

$("#btn_Modifier_UE").click( function(){

    id = $('#inpt_Mdf_UE_Id').val();
    code = $('#inpt_Mdf_UE_Code').val();
    libelle = $('#inpt_Mdf_UE_Libelle').val();
    credit = $('#inpt_Mdf_UE_Credit').val();
    coefficient = $('#inpt_Mdf_UE_Coefficient').val();
    ue = { code : code , libelle : libelle , credit: credit , coefficient : coefficient };

    $.ajax({
        type: "PUT",
        url: "http://localhost:8084/maquette/ue/"+id,
        data: JSON.stringify(ue),
        contentType: "application/json",
        success: function (data) {
            var u = data;
            $('#table_UE tr').each(function(row, tr) {
                val = $(tr).attr('id');
                if(val=="ligne"+id){
                    $(tr).find('td:eq(0)').html(u.code);
                    $(tr).find('td:eq(1)').html(u.libelle);
                    $(tr).find('td:eq(2)').html(u.credit);
                    $(tr).find('td:eq(3)').html(u.coefficient);
                }
            });

            $('#form_Modifier_UE').modal('hide');
        }
    });

});

```

Vue : ue.html – Supprimer UE

Showing 1 to 5 of 5 entries

Show 10 entries

Code	Libelle
INF351	Reseaux et Telecoms
INF352	Genie Logiciel 1
INF353	Technologies embarques
INF354	Gestions de donnees str
INF355	Humanites et Entreprise

Search:

	Details
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir
Supprimer	Voir

Previous 1 Next Last

Supprimer UE

Code

INF351

Libelle

Reseaux et Telecoms

Credits

8

Coefficient

4

Supprimer

Annuler

```

<!-- Debut popup supprimer un UE -->
<div data-dismiss="modal">
  <div class="modal fade" id="form_Supprimer_UE">
    <div class="modal-dialog" >
      <div class="modal-content panel-danger" >
        <!--modal Header-->
        <div class="modal-header panel-heading" >
          <button type="button" class="close" data-dismiss="modal">x</button>
          <h4 class="modal-title" style="text-align: center">Supprimer UE</h4>
        </div>
        <!--modal Body-->
        <form>
          <div class="modal-body" >
            <div style="display: none">
              <input name="id" id="inpt_Spm_UE_Id"/>
            </div>
            <div class="form-group">...
          </div>
          <div class="form-group">...
        </div>
          <div class="form-group">...
        </div>
          <div class="form-group">...
        </div>
          <div class="form-group">...
        </div>
        </div>
        <!--modal Footer-->
        <div class="modal-footer" >...
      </div>
    </form>
  </div>
</div>
</div>
<!-- Fin popup supprimer un UE -->

```

```

$(function(){
    supprimer_UE= function (id) {
        $('#inpt_Spm_UE_Id').val("");
        $('#inpt_Spm_UE_Code').val("");
        $('#inpt_Spm_UE_Libelle').val("");
        $('#inpt_Spm_UE_Credit').val("");
        $('#inpt_Spm_UE_Coefficient').val("");
        $.ajax({
            type: "GET",
            url: "http://localhost:8084/maquette/ue/"+id,
            dataType: 'json',
            success: function (data) {
                var u = data;
                $('#inpt_Spm_UE_Id').val(u.id);
                $('#inpt_Spm_UE_Code').val(u.code);
                $('#inpt_Spm_UE_Libelle').val(u.libelle);
                $('#inpt_Spm_UE_Credit').val(u.credit);
                $('#inpt_Spm_UE_Coefficient').val(u.coefficient);
                $('#form_Supprimer_UE').modal('show');
            }
        });
    }
});

```

```

$("#btn_Supprimer_UE").click( function(){

    id = $('#inpt_Spm_UE_Id').val();

    $.ajax({
        type: "DELETE",
        url: "http://localhost:8084/maquette/ue/"+id,
        success: function (data) {
            $('#table_UE tr').each(function(row, tr) {
                val = $(tr).attr('id');
                if(val=="ligne"+id){
                    $(this).closest("tr").remove();
                }
            });

            $('#form_Supprimer_UE').modal('hide');
        }
    });
});

```