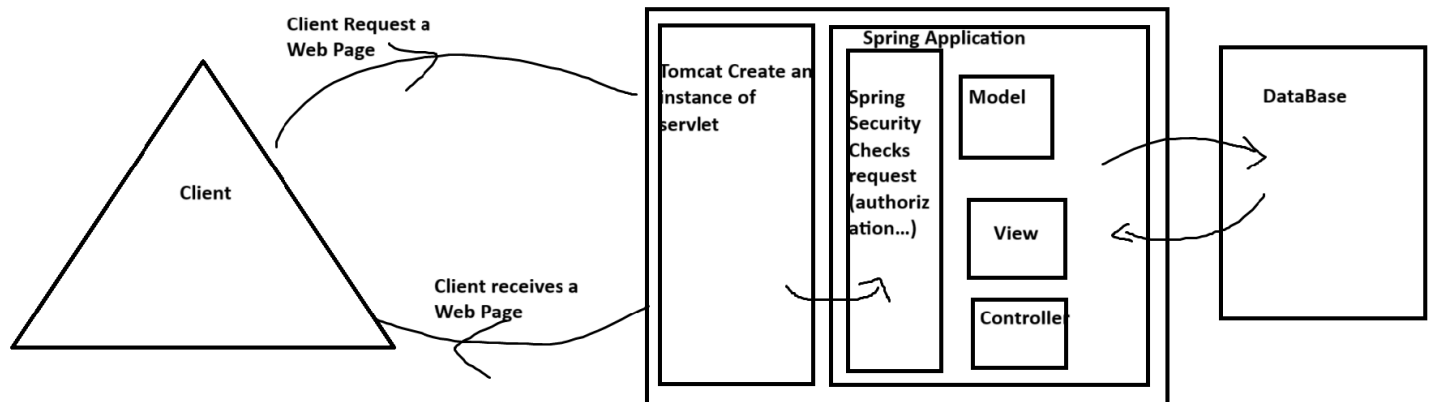


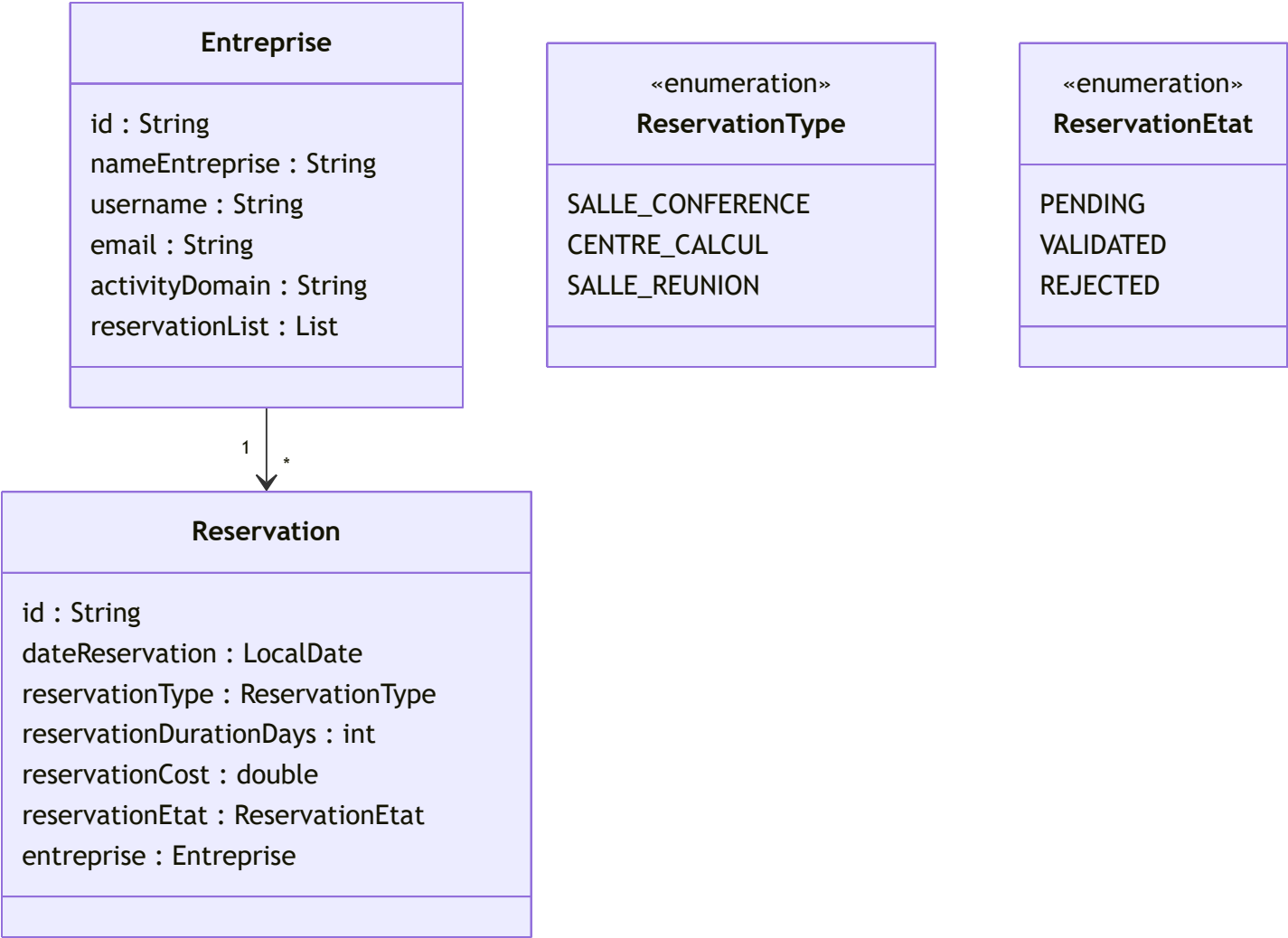
Contrôle-JEE

1. Schéma de l'architecture technique



Excusez mon médiocre dessin

2. Diagramme de classe



3. Couche DAO

a. Entités JPA

Classe Reservation

```
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Reservation {
    @Id
    @GeneratedValue(strategy = GenerationType.UUID)
    private String id;
    private LocalDate dateReservation;
    private ReservationType reservationType;
    private int reservationDurationDays;
    private double reservationCost;
    private ReservationEtat reservationEtat;
    @ManyToOne
    private Entreprise entreprise;
}

public enum ReservationType {
    SALLE_CONFERENCE, CENTRE_CALCUL, SALLE_REUNION
}

public enum ReservationEtat {
    PENDING, VANLIDATED, REJECTED
}
```

Classe Entreprise

```
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Entreprise {
    @Id @GeneratedValue(strategy = GenerationType.UUID)
    private String id;
    private String nameEntreprise;
    private String username;
    private String email;
    private String activityDomain;
    @OneToMany(mappedBy = "entreprise", cascade = CascadeType.ALL)
    @Builder.Default
    List<Reservation> reservationList = new ArrayList<>();
}
```

b. Interface JPARepository

```
public interface ReservationRepository extends JpaRepository<Reservation, String> {
}

public interface EntrepriseRepository extends JpaRepository<Entreprise, String> {
}
```

c. Test des couches DAO

Création

1 ✓ show tables;

2 #DESC entreprise;

3 # DESC reservation;

Services

+ Docker

Database

controle_jeu_db@localhost

console 336 ms

console 336 ms

Output

Result 4 x Tx

Tables_in_controle_jeu_db

1 entreprise

2 reservation

1 # show tables;

2 ✓ DESC entreprise;

Services

+ Docker

Database

controle_jeu_db@localhost

console 355 ms

console 355 ms

Output

show tables; x Tx

Field	Type	Null	Key	Default	Extra
1 activity_domain	varchar(255)	YES		<null>	
2 email	varchar(255)	YES		<null>	
3 id	varchar(255)	NO	PRI	<null>	
4 name_etreprise	varchar(255)	YES		<null>	
5 username	varchar(255)	YES		<null>	

1 # show tables;

2 # DESC entreprise;

3 ✓ DESC reservation;

Services

+ Docker

Database

controle_jeu_db@localhost

console 384 ms

console 384 ms

Output

DESC entreprise; x Tx

Field	Type	Null	Key	Default	Extra
1 date_reservation	date	YES		<null>	
2 reservation_cost	double	NO		<null>	
3 reservation_duration_days	int	NO		<null>	
4 reservation_etat	tinyint	YES		<null>	
5 reservation_type	tinyint	YES		<null>	
6 entreprise_id	varchar(255)	YES	MUL	<null>	
7 id	varchar(255)	NO	PRI	<null>	

Ajout

@Bean

```
CommandLineRunner run(EntrepriseRepository entrepriseRepository, ReservationRepository reservationRepository) {
    return args -> {
        System.out.println("Application Started Successfully with args: " + Arrays.toString(args));

        List<Entreprise> entrepriseList = EntrepriseSample.getSampleEntreprises();
        Entreprise entreprise1 = entrepriseList.get(0);
        Entreprise entreprise2 = entrepriseList.get(1);

        List<Reservation> reservationList = ReservationSample.getSampleReservations();
        Reservation reservation1 = reservationList.get(0);
        Reservation reservation2 = reservationList.get(1);
        Reservation reservation3 = reservationList.get(2);

        entreprise1.getReservationList().add(reservation1);
        entreprise1.getReservationList().add(reservation2);
        reservation1.setEntreprise(entreprise1);
        reservation2.setEntreprise(entreprise1);

        entreprise2.getReservationList().add(reservation3);
        reservation3.setEntreprise(entreprise2);

        entrepriseRepository.saveAll(List.of(entreprise1, entreprise2));

        entrepriseRepository.findAll().forEach(entreprise -> {
            System.out.println("Entreprise: ");
            System.out.println(entreprise.getId());
            System.out.println(entreprise.getNameEntreprise());
        });

        reservationRepository.findAll().forEach(reservation -> {
            System.out.println("Reservation: ");
            System.out.println(reservation.getId());
            System.out.println(reservation.getReservationDurationDays());
        });
    };
}
```

Exemple de sortie

Entreprise:

b5f70352-5bca-4701-9749-2f4b65fa36cc

TechCorp

Entreprise:

e83b4452-8bf4-4e1e-9ba9-9f56c45a3a38

HealthPlus

Hibernate: `select r1_0.id,r1_0.date_reservation,r1_0.entreprise_id,r1_0.reservation_cost,r1_0.r`

Hibernate: `select e1_0.id,e1_0.activity_domain,e1_0.email,e1_0.name_etreprise,e1_0.username from`

Hibernate: `select e1_0.id,e1_0.activity_domain,e1_0.email,e1_0.name_etreprise,e1_0.username from`

Reservation:

b607e277-7047-42a7-a566-03d08e57be0f

3

Reservation:

bb186ef4-2588-41a0-917c-69fbefc97422

5

Reservation:

dfd86393-3a2d-4900-b30a-b3539f6e9a4d

5

SELECT * FROM entreprise;

Output

DESC reservation: Tx

	activity_domain	email	id	name_etreprise	username
1	Healthcare	info@healthplus.com	01c23427-de3a-4f0b-8fb5-ea1488664c98	HealthPlus	healthplus_user
2	Technology	contact@techcorp.com	8df4714a-fca2-4e8a-8ea6-5ceb56ad783b	TechCorp	techcorp_user

SELECT * FROM reservation;

Output

SELECT * FROM entreprise: Tx

	date_reservation	reservation_cost	reservation_etat	reservation_type	entreprise_id	id
1	2025-04-26	5000	5	2	01c23427-de3a-4f0b-8fb5-ea1488664c9	272ac2d6-8e35-40ff-b85a-ff034d90b60
2	2025-04-22	1200	5	1	8df4714a-fca2-4e8a-8ea6-5ceb56ad783	78db808b-912e-4952-8096-2cbe073af5b
3	2025-04-21	500	3	0	8df4714a-fca2-4e8a-8ea6-5ceb56ad783	b0d55c2a-1e7a-4f55-a934-206338c1148

4. Couche Web

Controllers

```
@Controller
@RequestMapping("/reservation")
@AllArgsConstructor
public class ReservationController {

    private ReservationRepository reservationRepository;
    private EntrepriseRepository entrepriseRepository;

    @GetMapping
    public String getAllReservations(
        Model model,
        @RequestParam(defaultValue = "", name = "kw") String keyword,
        @RequestParam(defaultValue = "0", name = "p") int page,
        @RequestParam(defaultValue = "4", name = "s") int pageSize
    ) {
        Page<Reservation> reservations = reservationRepository.findByEntrepriseNameEtentrepriseConti
        model.addAttribute("reservations", reservations);
        model.addAttribute("totalPages", reservations.getTotalPages());
        model.addAttribute("keyword", keyword);
        model.addAttribute("currentPage", page);
        model.addAttribute("pageSize", pageSize);
        return "reservations";
    }

    @GetMapping("/edit")
    public String editReservation(@RequestParam String id, Model model) {
        Reservation reservation = reservationRepository.findById(id).orElseThrow(() -> new Illeg
        model.addAttribute("reservation", reservation);
        return "edit-reservation";
    }

    @PostMapping("/edit")
    public String updateReservation(Reservation reservation) {
        reservationRepository.save(reservation);
        return "redirect:/reservation";
    }
}
```



```

@PostMapping("/delete")
public String deleteReservation(@RequestParam String id) {
    reservationRepository.deleteById(id);
    return "redirect:/reservation";
}

```

```

@PostMapping("/add")
public String addReservation(Reservation reservation) {
    System.out.println("Reservation to add: "+ reservation);
    reservationRepository.save(reservation);
    return "redirect:/reservation";
}

```

```

@GetMapping("/add")
public String addReservation(Model model) { // Corrected method name
    model.addAttribute("reservation", new Reservation());
    return "add-reservation";
}

```

```

}

```

```

@Controller

```

```

@RequestMapping("/entreprise")

```

```

@AllArgsConstructor

```

```

public class EntrepriseController {

```

```

    private ReservationRepository reservationRepository;

```

```

    private EntrepriseRepository entrepriseRepository;

```

```

@GetMapping

```

```

public String getAllEntreprise(
    Model model,
    @RequestParam(defaultValue = "", name = "kw") String keyword,
    @RequestParam(defaultValue = "0", name = "p") int page,
    @RequestParam(defaultValue = "4", name = "s") int pageSize

```

```

) {

```

```

    Page<Entreprise> entreprises = entrepriseRepository.findEntrepriseByNameEtentrepriseContaining(keyword, page, pageSize);
    model.addAttribute("entreprises", entreprises.getContent());
    model.addAttribute("totalPages", entreprises.getTotalPages());
    model.addAttribute("keyword", keyword);
    model.addAttribute("currentPage", page);
}

```

```

        model.addAttribute("pageSize", pageSize);
        return "entreprises";
    }

    @GetMapping("/edit")
    public String editEntreprise(@RequestParam String id, Model model) {
        Entreprise entreprise = entrepriseRepository.findById(id).orElseThrow(() -> new IllegalArgumentException("Entreprise not found"));
        model.addAttribute("entreprise", entreprise);
        return "edit-entreprise";
    }

    @PostMapping("/edit")
    public String updateEntreprise(Entreprise entreprise) {
        entrepriseRepository.save(entreprise);
        return "redirect:/entreprise";
    }

    @PostMapping("/delete")
    public String deleteEntreprise(@RequestParam String id) {
        entrepriseRepository.deleteById(id);
        return "redirect:/entreprise";
    }

    @PostMapping("/add")
    public String addEntreprise(Entreprise entreprise) {
        System.out.println("Entreprise to add: "+entreprise);
        entrepriseRepository.save(entreprise);
        return "redirect:/entreprise";
    }

    @GetMapping("/add")
    public String addEntreprise(Model model) {
        model.addAttribute("entreprise", new Entreprise());
        return "add-entreprise";
    }
}

```

a. Thymeleaf

Index Pages

- Reservation

Enterprises

Add New Enterprise

Chercher

Name	Username	Email	Activity Domain	Actions	
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
TechCorp	techcorp_user	contact@techcorp.com	Technology	Edit	Delete
TechCorp	techcorp_user	contact@techcorp.com	Technology	Edit	Delete

- Enterprises

Enterprises

Add New Enterprise

Chercher

Name	Username	Email	Activity Domain	Actions	
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete

1 2 3 4 5 6

Pagination

Reservations

Add New Reservation

Chercher

Date	Type	Duration (Days)	Cost	Status	Actions	
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	Edit	Delete
2025-04-21	SALLE_CONFERENCE	3	500.0	PENDING	Edit	Delete

1 2 3 4 5

Reservations

Add New Reservation

Chercher

Date	Type	Duration (Days)	Cost	Status	Actions
2025-04-21	SALLE_CONFERENCE	3	500.0	PENDING	<div>EditDelete</div>
2025-04-22	CENTRE_CALCUL	5	1200.0	VANLIDATED	<div>EditDelete</div>
2025-04-21	SALLE_CONFERENCE	3	500.0	PENDING	<div>EditDelete</div>
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	<div>EditDelete</div>

1

2

3

4

5



Reservations

Add New Reservation

Chercher

Date	Type	Duration (Days)	Cost	Status	Actions
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	<div>EditDelete</div>
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	<div>EditDelete</div>

1

2

3

4

5

6

7

8

9

Recherche

- ENTREPRISE

Entreprises

Add New Entreprise

Search

Chercher

Name	Username	Email	Activity Domain	Actions	
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete
HealthPlus	healthplus_user	info@healthplus.com	Healthcare	Edit	Delete

- RESERVATION

Reservations

Add New Reservation

On recherche la réservation avec le nom de l'entreprise qui a réservé:

Search

Chercher

Date	Type	Duration (Days)	Cost	Status	Entreprise	Actions	
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete
2025-04-26	SALLE_REUNION	5	5000.0	REJECTED	HealthPlus	Edit	Delete

- DELETE

Entreprises

Add New Entreprise

<div>Search</div> <div>Chercher</div>					
ID	Name	Username	Email	Activity Domain	Actions
17854acf-11b4-4052-8798-f465f9bc9f38	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
197a23ce-5cab-4196-add8-ce81d6aaa1cc	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
1aa878ca-28d8-4b86-8e21-ff518c495b93	HealthPlus	healthplus_user	info@healthplus.com	Healthcare	<div>Edit</div> <div>Delete</div>
2a4cfb01-617f-4062-86d7-4b0b0f37658a	HealthPlus	healthplus_user	info@healthplus.com	Healthcare	<div>Edit</div> <div>Delete</div>
<div>12345678</div>					

Entreprises

Add New Entreprise

<div>Search</div> <div>Chercher</div>					
ID	Name	Username	Email	Activity Domain	Actions
630b91e9-7b8b-4d29-b384-023768ba0e7c	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
68a2f22a-e3a3-43b2-bfbf-9a34b1e93bbb	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
6982efb1-f6dd-48d2-a169-c5392a8d95b4	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
7fcda06f-2549-4de2-bb6c-c8ccc54c1398	TechCorp	techcorp_user	contact@techcorp.com	TechCorp	<div>Edit</div> <div>Delete</div>
<div>12345</div>					

Outil Capture d'écran

Capture d'écran copiée dans le Presse-papiers
Enregistrement automatique dans le dossier des captures d'écran.

• UPDATE

Entreprises

Add New Enterprise

Chercher

ID	Name	Username	Email	Activity Domain	Actions
630b91e9-7b8b-4d29-b384-023768ba0e7c	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
68a2f22a-e3a3-43b2-bfbf-9a34b1e93bbb	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
6982efb1-f6dd-48d2-a169-c5392a8d95b4	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
7fcd06f-2549-4de2-bb6c-c8ccc54c1398	TechCorp	techcorp_user	contact@techcorp.com	TechCorp	<div>Edit</div> <div>Delete</div>

1

2

3

4

5

Outil Capture d'écran

Capture d'écran copiée dans le Presse-papiers
Enregistrement automatique dans le dossier des captures d'écran.

Edit Enterprise

Name

Exam Control

Username

Prof Youssfi

Email

JVAEE@gmail.com

Activity Domain

Technology

Save

Entreprises

Add New Enterprise

Chercher

ID	Name	Username	Email	Activity Domain	Actions
630b91e9-7b8b-4d29-b384-023768ba0e7c	Exam Control	Prof Youssfi	JVAEE@gmail.com	Technology	<div>Edit</div> <div>Delete</div>
68a2f22a-e3a3-43b2-bfbf-9a34b1e93bbb	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
6982efb1-f6dd-48d2-a169-c5392a8d95b4	TechCorp	techcorp_user	contact@techcorp.com	Technology	<div>Edit</div> <div>Delete</div>
7fcd06f-2549-4de2-bb6c-c8ccc54c1398	TechCorp	techcorp_user	contact@techcorp.com	TechCorp	<div>Edit</div> <div>Delete</div>

1

2

3

4

5

Outil Capture d'écran

Capture d'écran copiée dans le Presse-papiers
Enregistrement automatique dans le dossier des captures d'écran.

- Ajout

localhost:8080/entreprise

[Add New Enterprise](#)

ID	Name	Username	Email	Activity Domain	Actions
51de8057-9d2d-4e2c-82d4-e10b78c5a208	MICRO	MICRO	MICRO@micro.com	micro	<button>Edit</button>
					<button>Delete</button>
5a97d46a-896b-4879-b172-299f5e498ac7	HealthPlus	healthplus_user	info@healthplus.com	Healthcare	<button>Edit</button>
					<button>Delete</button>
5c2ed49d-7bc2-4f92-b317-e7b981b540cf	HealthPlus	healthplus_user	info@healthplus.com	Healthcare	<button>Edit</button>
					<button>Delete</button>
630b91e9-7b8b-4d29-b384-023768ba0e7c	Exam Control	Prof Youssefi	JAVAE@ gmail.com	Technology	<button>Edit</button>
					<button>Delete</button>

b. REST API

il faudra utiliser DTO (data transfer object) pour éviter le problème d'appel récursive.

[illegible]