

المدرسة العليا لأساتذة التعليم التقني المحمدية جامعة الحسن الثاني بالدار البيضاء

DEPARTEMENT MATHEMATIQUES ET INFORMATIQUE

CONTROLE N°1 Architecture JEE

Filière:

« Ingénierie Informatique : Big Data et Cloud Computing »

II-BDCC

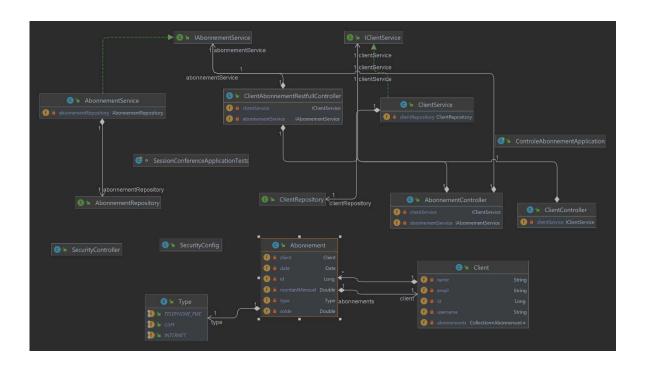
Conception et développement d'une application web JEE pour la gestion des abonnements



Abderrahmane ETTOUNANI

Année Universitaire: 2022-2023

Conception



Implémentation

- 1- Couche DAO
- Les entités JPA

```
    @Entity
    @Data
    @NoArgsConstructor
    @AllArgsConstructor
    @Builder
    public class Client {
        @Id
            @GeneratedValue(strategy = GenerationType.IDENTITY)
            private Long id;
            private String name;
            private String email;
            private String username;
            @OneToMany(mappedBy = "client")
            @JsonProperty(access = JsonProperty.Access.WRITE_ONLY)
            private Collection<Abonnement> abonnements;
}
```

```
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Abonnement {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    @Temporal(TemporalType.DATE)
    private Date date;
    @Enumerated(EnumType.STRING)
    private Type type;
    private Double solde;
    private Double montantMensuel;
    @ManyToOne
    private Client client;
}
```

```
public enum Type {
          GSM, INTERNET, TELEPHONE_FIXE
}
```

• Les interfaces JpaRepository

```
public interface ClientRepository extends JpaRepository<Client,
Long> {
    Page<Client> findAllByNameContains(String name, Pageable
pageable);
}
```

```
public interface AbonnementRepository extends JpaRepository<Abonnement,
Long> {
    Page<Abonnement> findAllByMontantMensuel(Double montant, Pageable
pageable);
}
```

• Test de la couche DAO

2- Couche Web

Gestion des clients

```
@Controller
@AllArgsConstructor
    @GetMapping(path = "/")
    @GetMapping(path = "/user/client")
                           @RequestParam(name = "page", defaultValue
                           @RequestParam(name = "size", defaultValue
                           @RequestParam(name =
"keyword", defaultValue = "") String keyword) {
        Page<Client>
clients=clientService.getClientsByName(keyword, PageReguest.of(page,
        model.addAttribute("listClients", clients.getContent());
        model.addAttribute("pages", new
        model.addAttribute("allPages", clients.getTotalElements());
        model.addAttribute("keyword", keyword);
    @PostMapping(path = "/admin/addClient")
    public String addClient(@RequestBody Client client) {
```

```
@GetMapping(path = "/admin/deleteClient")
public String deleteClient(long id) {
    clientService.deleteById(id);
    return "redirect:/user/client";
}
}
```

• Gestion des Abonnement

```
@Controller
@AllArgsConstructor
    @GetMapping(path = "/user/abonnement")
                            @RequestParam(name = "page", defaultValue
                            @RequestParam(name = "size", defaultValue
                            @RequestParam(name =
"keyword", defaultValue = "") String keyword) {
        Page < Abonnement >
        model.addAttribute("allPages",
        model.addAttribute("keyword", keyword);
    @PostMapping(path = "/admin/addAbonnement")
    public String addAbonnement(@RequestBody Abonnement
            return "redirect:/user/abonnement";
    @GetMapping(path = "/admin/delete")
        abonnementService.deleteById(id);
        return "redirect:/user/abonnement";
```

3- Web service RESTful

```
4- @RestController
    @RequestMapping("/api")
    @AllArgsConstructor
    public class ClientAbonnementRestfullController {
```

```
@GetMapping("/client")
   public List<Client> clients() {
    @GetMapping("/client/{id}")
    public Client client(@PathVariable Long id) {
    @PostMapping("/client")
    public Client save(@RequestBody Client client) {
    @PutMapping("/client/{id}")
    public Client update (@PathVariable Long id, @RequestBody Client
client) {
        return clientService.updateClient(id, client);
    @DeleteMapping("/client/{id}")
   public void deleteClient(@PathVariable Long id) {
    @GetMapping("/abonnement")
    @GetMapping("/abonnement/{id}")
    public Abonnement abonnement(@PathVariable Long id) {
    @PostMapping("/abonnement")
    public Abonnement save(@RequestBody Abonnement abonnement) {
   @PutMapping("/abonnement/{id}")
   public Abonnement update (@PathVariable Long id, @RequestBody
    @DeleteMapping("/abonnement/{id}")
    public void deleteAbonnement(@PathVariable Long id) {
```

```
@Configuration
@EnableWebSecurity
    @Bean
        return new InMemoryUserDetailsManager(
User.withUsername("abdo").password("{noop}1111").roles("ADMIN","USER").bu
ild(),
User.withUsername("youssef").password("{noop}2222").roles("USER").build()
User.withUsername("oumaima").password("{noop}3333").roles("USER").build()
    @Bean
httpSecurity) throws Exception {
      // all requests required authentification
tAll();
httpSecurity.authorizeHttpRequests().requestMatchers("/user/**").hasRole(
httpSecurity.authorizeHttpRequests().requestMatchers("/admin/**").hasRole
("ADMIN");
        httpSecurity.exceptionHandling().accessDeniedPage("/403");
httpSecurity.authorizeHttpRequests().anyRequest().authenticated();
        return httpSecurity.build();
```

```
@Controller
public class SecurityController {

    @GetMapping("/403")
    public String notAuthorized() {
        return "403";
    }
    @GetMapping("/login")
    public String login() {
        return "login";
    }
}
```