**Microservices with API gateway**

**Exercise 1: Creating Microservices for account and loan**

**1.Account:**

**Code:**

@SpringBootApplication  
@EnableDiscoveryClient  
public class AccountApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.*run*(AccountApplication.class, args);  
 }  
  
}

@Entity  
public class Account {  
  
 @Id  
 @GeneratedValue(strategy = GenerationType.*IDENTITY*)  
 Long id;  
 String type;  
 Long bal;  
  
 public Account(Long bal, Long id, String type) {  
 this.bal = bal;  
 this.id = id;  
 this.type = type;  
 }  
  
 public Account() {  
 }  
  
 public Long getBal() {  
 return bal;  
 }  
  
 public void setBal(Long bal) {  
 this.bal = bal;  
 }  
  
 public Long getId() {  
 return id;  
 }  
  
 public void setId(Long id) {  
 this.id = id;  
 }  
  
 public String getType() {  
 return type;  
 }  
  
 public void setType(String type) {  
 this.type = type;  
 }  
}

**2.Loan:**

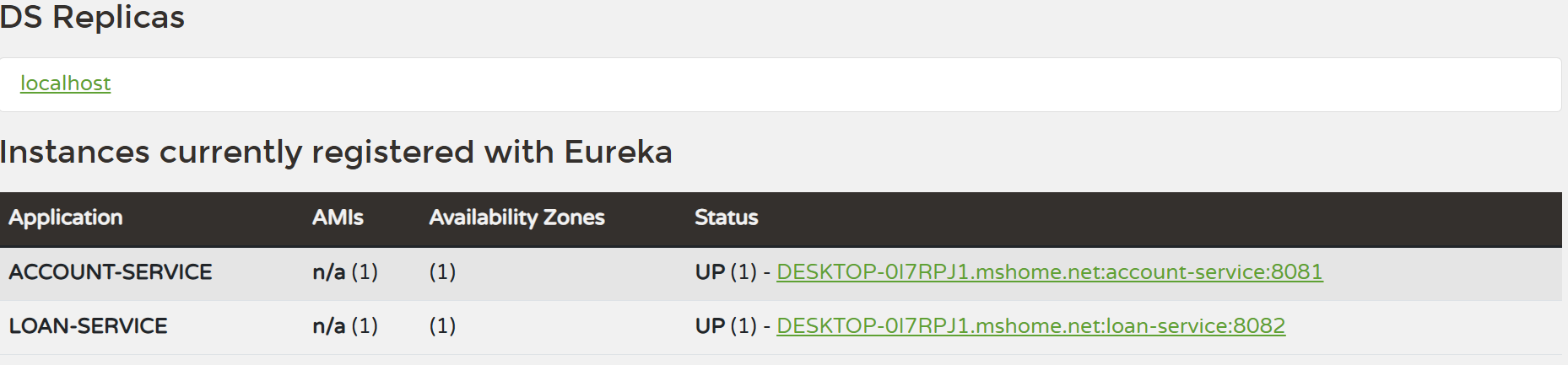
@SpringBootApplication  
@EnableDiscoveryClient  
public class LoanApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.*run*(LoanApplication.class, args);  
 }  
  
}

@Entity  
public class Loan {  
  
 @Id  
 @GeneratedValue(strategy = GenerationType.*IDENTITY*)  
 Long id;  
 String num;  
 String type;  
 Long loan;  
 int emi;  
 int tenure;  
  
 public Loan(int emi, Long id, Long loan, String num, int tenure, String type) {  
 this.emi = emi;  
 this.id = id;  
 this.loan = loan;  
 this.num = num;  
 this.tenure = tenure;  
 this.type = type;  
 }  
  
 public Loan() {  
 }  
  
 public int getEmi() { return emi;  
 }  
  
 public void setEmi(int emi) {  
 this.emi = emi;  
 }  
  
 public Long getId() {  
 return id;  
 }  
  
 public void setId(Long id) {  
 this.id = id;  
 }  
  
 public Long getLoan() {  
 return loan;  
 }  
  
 public void setLoan(Long loan) {  
 this.loan = loan;  
 }  
  
 public String getNum() {  
 return num;  
 }  
  
 public void setNum(String num) {  
 this.num = num;  
 }  
  
 public int getTenure() {  
 return tenure;  
 }  
  
 public void setTenure(int tenure) {  
 this.tenure = tenure;  
 }  
  
 public String getType() {  
 return type;  
 }  
  
 public void setType(String type) {  
 this.type = type;  
 }  
}

**3.Eureka Server:**

@SpringBootApplication  
@EnableEurekaServer  
public class EurekaDiscoveryServerApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.*run*(EurekaDiscoveryServerApplication.class, args);  
 }  
  
}

**Output:**

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