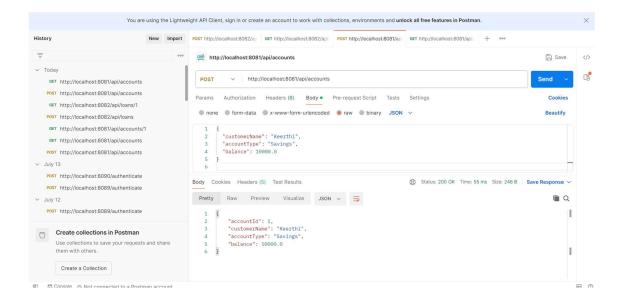
```
Creating microservices for account and loan
package com.example.account_service.controller;
import com.example.account_service.entity.Account;
import com.example.account_service.service.AccountService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/api/accounts")
public class AccountController {
 @Autowired
 private AccountService service;
 @PostMapping
 public Account createAccount(@RequestBody Account account) {
   return service.createAccount(account);
 }
 @GetMapping
 public List<Account> getAllAccounts() {
   return service.getAllAccounts();
 }
 @GetMapping("/{id}")
```

```
public Account getAccountById(@PathVariable Long id) {
   return service.getAccountById(id).orElse(null);
 }
}
package com.example.account_service.entity;
import jakarta.persistence.*;
import lombok.*;
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Account {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long accountld;
  private String customerName;
  private String accountType;
  private Double balance;
      public Long getAccountId() {
             return accountld;
      }
      public void setAccountId(Long accountId) {
             this.accountld = accountld;
      }
      public String getCustomerName() {
```

```
return customerName;
      }
      public void setCustomerName(String customerName) {
             this.customerName = customerName;
      }
      public String getAccountType() {
             return accountType;
      }
      public void setAccountType(String accountType) {
             this.accountType = accountType;
      }
      public Double getBalance() {
             return balance;
      }
      public void setBalance(Double balance) {
             this.balance = balance;
      }
}
package com.example.account_service.repository;
import com.example.account_service.entity.Account;
import org.springframework.data.jpa.repository.JpaRepository;
public interface AccountRepository extends JpaRepository<Account, Long> {}
package com.example.account_service.service;
import com.example.account_service.entity.Account;
import com.example.account_service.repository.AccountRepository;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Optional;
@Service
public class AccountService {
 @Autowired
 private AccountRepository repository;
 public Account createAccount(Account account) {
   return repository.save(account);
 }
 public List<Account> getAllAccounts() {
   return repository.findAll();
 }
 public Optional<Account> getAccountById(Long id) {
   return repository.findByld(id);
 }
}
OUTPUT:
```



Loan service:

package com.example.loan_service.controller;

import com.example.loan_service.entity.Loan;

import com.example.loan_service.service.LoanService;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.*;

import java.util.List;

@RestController

@RequestMapping("/api/loans")

public class LoanController {

@Autowired

private LoanService service;

@PostMapping

```
public Loan createLoan(@RequestBody Loan loan) {
   return service.createLoan(loan);
 }
  @GetMapping
  public List<Loan> getAllLoans() {
   return service.getAllLoans();
 }
 @GetMapping("/{id}")
 public Loan getLoanById(@PathVariable Long id) {
   return service.getLoanById(id).orElse(null);
 }
}
package com.example.loan_service.entity;
import jakarta.persistence.*;
import lombok.*;
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Loan {
 @ld
 @GeneratedValue(strategy = GenerationType.IDENTITY)
 private Long loanId;
```

```
private String customerName;
private String loanType;
private Double loanAmount;
    public Long getLoanId() {
           return loanId;
    }
    public void setLoanId(Long loanId) {
           this.loanId = loanId;
    }
    public String getCustomerName() {
           return customerName;
    }
    public void setCustomerName(String customerName) {
           this.customerName = customerName;
    }
    public String getLoanType() {
           return loanType;
    }
    public void setLoanType(String loanType) {
           this.loanType = loanType;
    }
    public Double getLoanAmount() {
           return loanAmount;
    }
    public void setLoanAmount(Double loanAmount) {
           this.loanAmount = loanAmount;
    }
```

}

```
package com.example.loan_service.repository;
import com.example.loan_service.entity.Loan;
import org.springframework.data.jpa.repository.JpaRepository;
public interface LoanRepository extends JpaRepository<Loan, Long> {}
package com.example.loan_service.service;
import com.example.loan_service.entity.Loan;
import com.example.loan_service.repository.LoanRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Optional;
@Service
public class LoanService {
 @Autowired
 private LoanRepository repository;
 public Loan createLoan(Loan loan) {
   return repository.save(loan);
 }
 public List<Loan> getAllLoans() {
   return repository.findAll();
```

```
public Optional<Loan> getLoanById(Long id) {
    return repository.findById(id);
}
```

OUTPUT:

}

