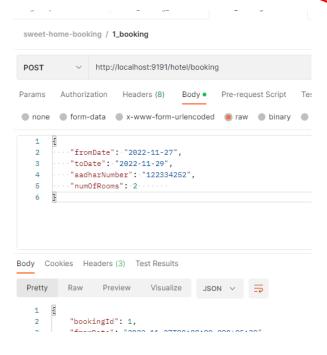
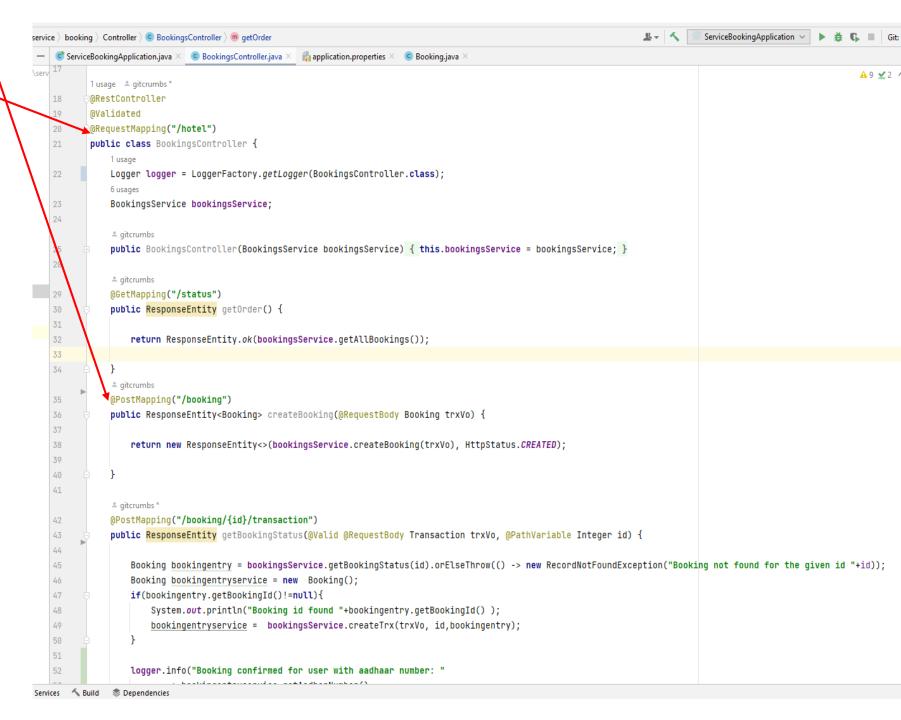


http://localhost:9191/hotel/booking



Code Flow

Page 1



```
ervice booking service SookingsService mformatDataEntry
                                                                                                                                                                                                                                                               ServiceBookingApplication ∨
34
                                                                                                                                — 🕝 ServiceBookingApplication.java × 🔞 BookingsController.java × 🕲 BookingsService.java × 🙀 application.properties × 🕲 Booking.java
35
               /* The requested post call for booking brings the code flow here
                                                                                                                                               /* This code block formats the data as per the given format in
               * and after formatting the data, the entry is saved in the booking repository*/
36
                                                                                                                                                the problem statement*/
                                                                                                                                                1 usage new *
                1 usage # gitcrumbs *
                                                                                                                                                public Booking formatDataEntry(Booking booking)throws Exception{
                                                                                                                                   76 @
               public Booking createBooking(Booking booking) throws Exception {
                    Booking bookedItem = bookingRepository.save(formatDataEntry(booking));
                                                                                                                                                    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy-MM-dd'T'HH:mm:ss.SSSXXX");
                                                                                                                                   78
                                                                                                                                                    int numOfRooms = booking.getNumOfRooms();
                    return bookedItem;
                                                                                                                                   80
                                                                                                                                                    String s= getRandomNumbers(numOfRooms).toString();
                                                                                                                                                    String requiredString = s.substring(s.indexOf("[")+1 , s.indexOf("]"));
                                                                                                                                                    booking.setRoomNumbers(requiredString);
                                                                                                                                                    try{
                1 usage # gitcrumbs
                                                                                                                                                        booking.setBookedOn(LocalDateTime.now());
                                                                                                                                                        Calendar cl = Calendar. getInstance();
42 @
               public Booking createTrx(Transaction trxVo, Integer id, Booking bookingentry){
                                                                                                                                                        Timestamp filterDateFromTs = null, filterDateToTs=null;
                    trxVo.setBookingId(id);
43
                                                                                                                                                        SimpleDateFormat dateFormat = new SimpleDateFormat( pattern: "yyyy-MM-dd");
                                                                                                                                                        Date firstDate = dateFormat.parse(booking.getFromDate());
                                                                                                                                                        Date secondDate = dateFormat.parse(booking.getToDate());
                    Integer item= restTemplate.postForObject(transactionAppUrl, trxVo, Integer.class);
                                                                                                                                                        long diffInMillies = Math.abs(secondDate.getTime() - firstDate.getTime());
                    System.out.println("Generated Transaction id is"+item);
                                                                                                                                                        long daysBetween = TimeUnit.DAYS.convert(diffInMillies, TimeUnit.MILLISECONDS);
                                                                                                                                   92
                    bookingentry.setTransactionId(item);
47
                                                                                                                                   93
                                                                                                                                                        long roomPrice = 1000 * numOfRooms*(daysBetween);
48
                                                                                                                                                        String timeStampFrom =new SimpleDateFormat(pattern: "yyyy-MM-dd'T'HH:mm:ss.SSSXXX").format((dateFormat.parse(booking.getFromDate())).getTime());
                                                                                                                                                        String timeStampTo =new SimpleDateFormat(pattern: "yyyy-MM-dd'T'HH:mm:ss.SSSXXX").format((dateFormat.parse(booking.getToDate())).getTime());
                    bookingRepository.save(bookingentry);
49
                                                                                                                                                        booking.setFromDate(timeStampFrom);
                                                                                                                                                        booking.setToDate(timeStampTo);
                                                                                                                                                        booking.setRoomPrice((int)roomPrice);
                    return bookingentry;
                                                                                                                                                    }catch(Exception e){
                                                                                                                                                        throw new Exception("Unable to create Transaction"+e.getMessage());
                                                                                                                                  103
                                                                                                                                                    return booking
                                                                                                                                  104
                                                                                                                                  105
```

106

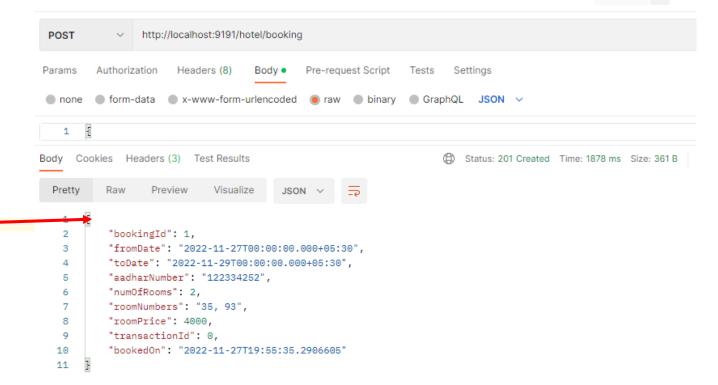
Code Flow: Booking Service

Page 2

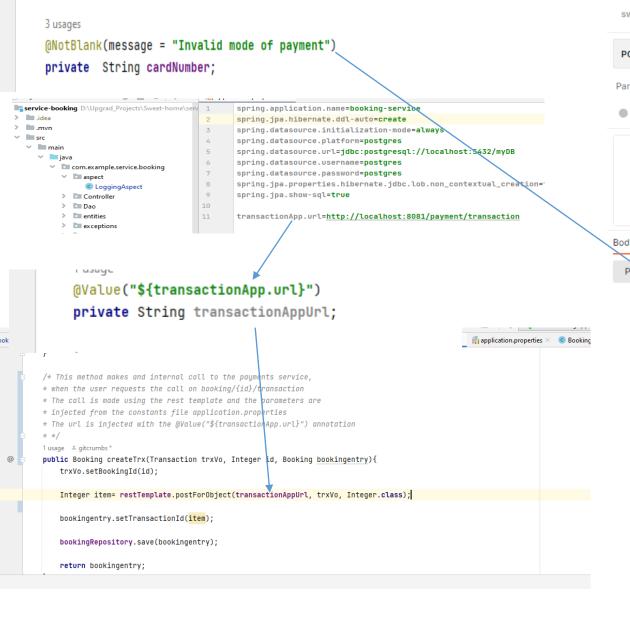
```
a gitcrumbs
public BookingsController(BookingsService bookingsService) { this.bookingsService = bookingsService; }
a gitcrumbs
@GetMapping("/status")
public ResponseEntity getOrder() {
   return ResponseEntity.ok(bookingsService.getAllBookings());
/* The post mapping call with the booking endpoint passes the booking object as payload
 to the createBooking method defined in the BookingService layer and it in returns the
 generates the booking entry in the database .
 * */
                                                 Schema Maps
# gitcrumbs *
@PostMapping("/booking")
return new ResponseEntity<>(bookingsService.createBooking(trxVo), HttpStatus.CREATED);
/* The post mappina call with the bookina id to the transaction service
```

Booking Service

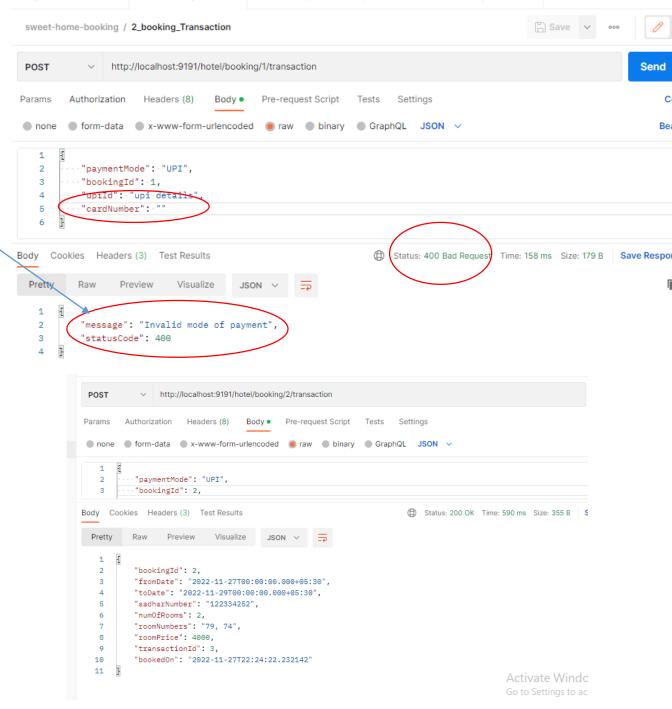
Page 3

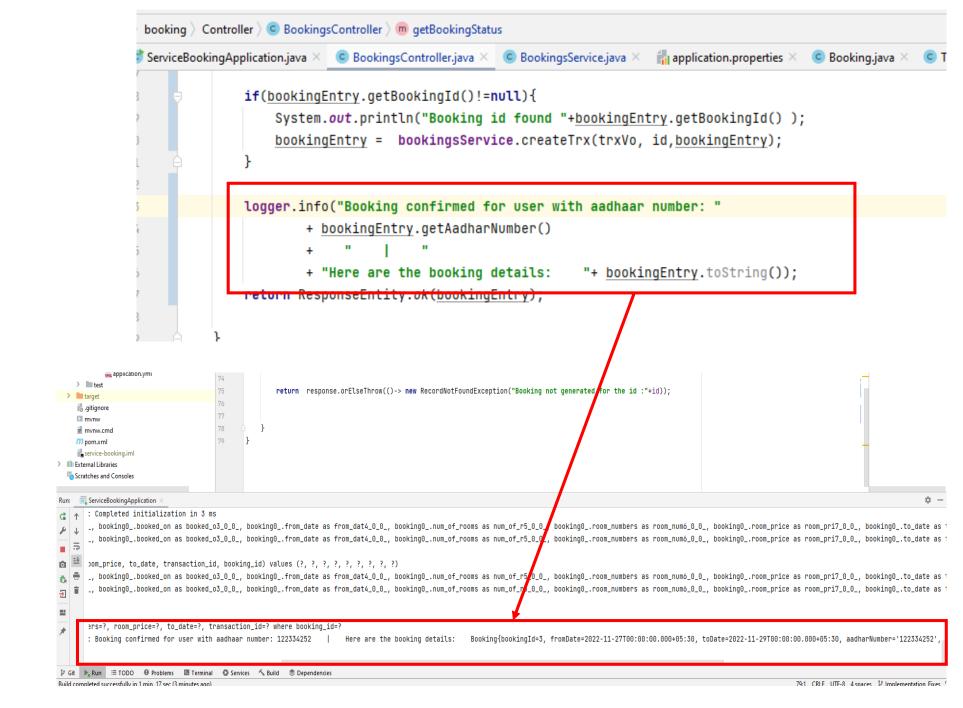


Activate Windo



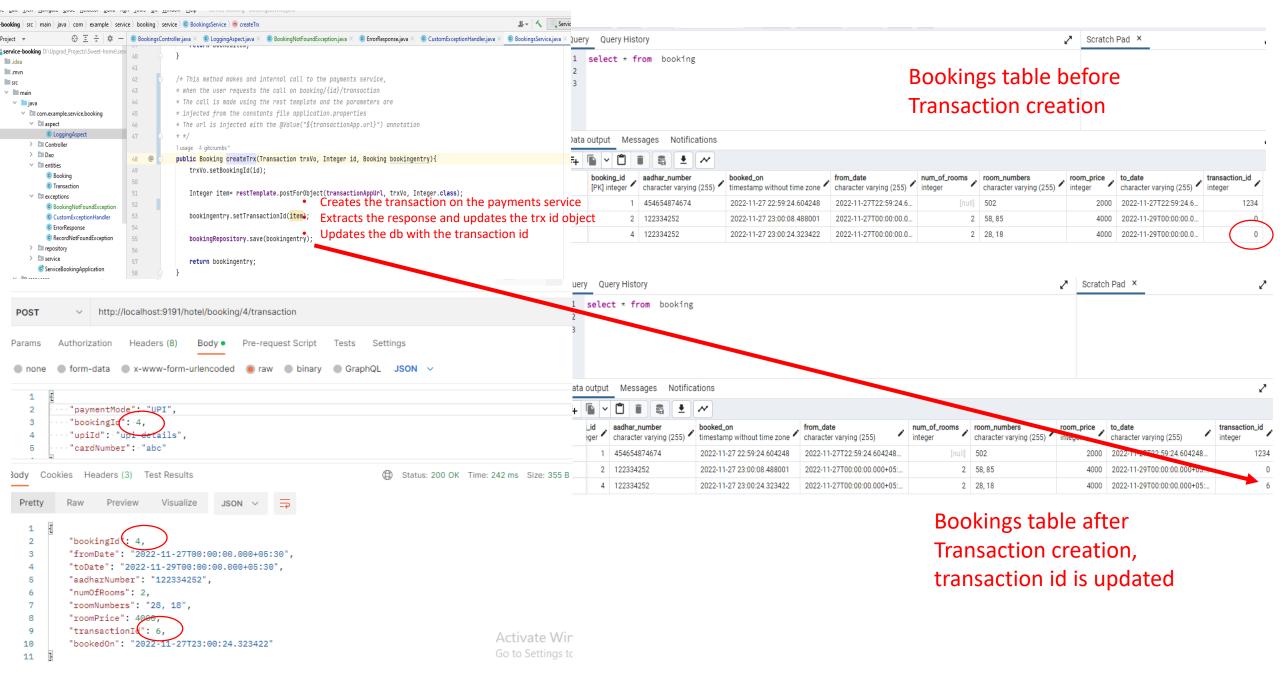
*Booking Service -> Payments Service
Page 4





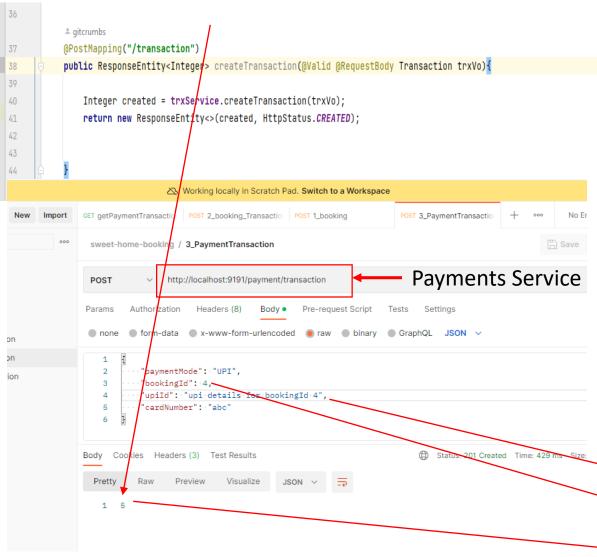
Booking Service

Page 5



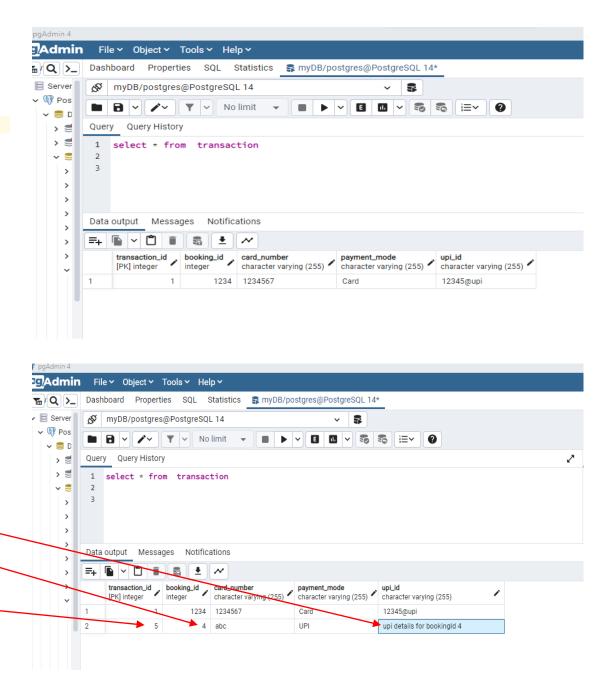
*Booking Service -> Payments Service

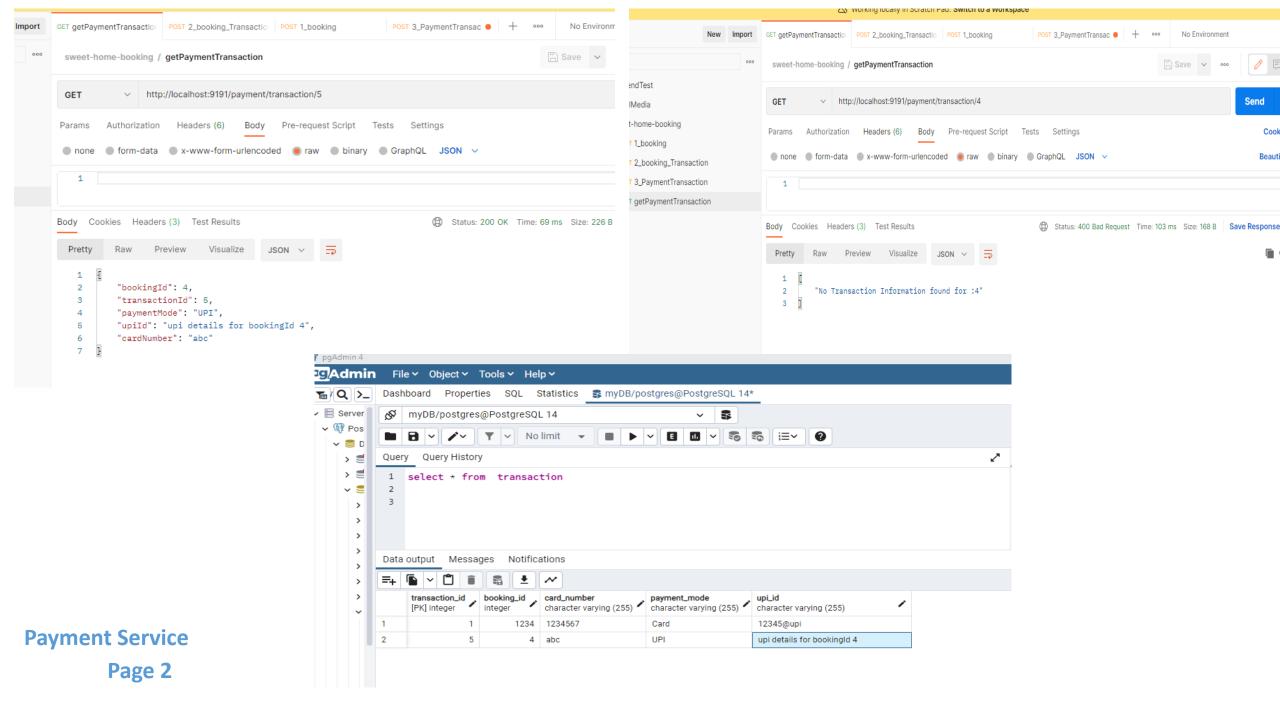
http://localhost:9191/payment/transaction

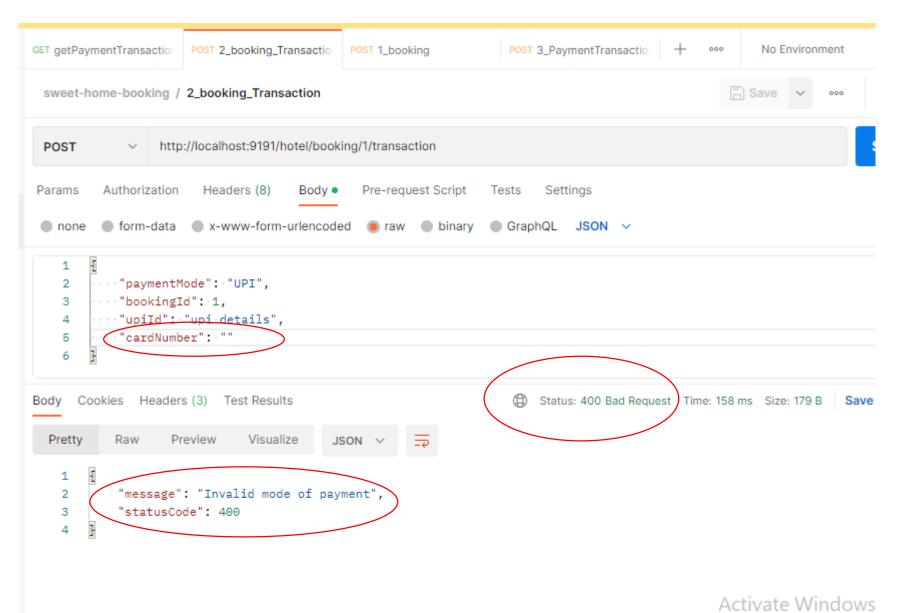


Payment Service

Page 1







Payment Service

Go to Settings to activat

```
₹1.137 INFO 23264 --- [nio-8081 exec-1] o.s.web.servlet.DispatcherServlet
                                                                                    : Initializing Servlet 'dispatcherServlet'
₹.141 INFO 23264 --- [nio-8081 exec-1] o.s.web.servlet.DispatcherServlet
                                                                                    : Completed initialization in 4 ms
      INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect : In TransactionController entering createTransaction
      INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect : In TransactionService entering createTransaction
      INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect : In CrudRepository entering save
iextval ('hibernate_sequence')
.nto transaction (booking_id, card number_navment_mode_uni_id_transaction_id) values (? ? ? ? ?)
₹ 1.472 INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect : In CrudRepository exiting save
7.472 INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect . in TransactionService exiting createTransaction
1.474 INFO 23264 --- [nio-8081 exec-1] c.example.payments.aspect.LoggingAspect : In TransactionController exiting createIransaction
'.374 INFO 23264 --- [nio-8081 exec-3] c.example.payments.aspect.LoggingAspect : In TransactionController entering createTransaction
7.375 INFO 23264 --- [nio-8081 exec-3] c.example.payments.aspect.LoggingAspect : In TransactionService entering createTransaction
7.376 INFO 23264 --- [nio-8081-exec-3] c.example.payments.aspect.LoggingAspect : In CrudRepository entering save
nextval ('hibernate_sequence')
.nto transaction (booking_id, card_number, payment_mode, upi_id, transaction_id) values (?, ?, ?, ?)
'.383 INFO 23264 --- [nio-8081 exec-3] c.example.payments.aspect.LoggingAspect : In CrudRepository exiting save
7.383 INFO 23264 --- [nio-8081 exec-3] c.example.payments.aspect.LoggingAspect : In TransactionService exiting createTransaction
1.383 INFO 23264 --- [nio-8081 exec-3] c.example.payments.aspect.LoggingAspect : In TransactionController exiting createTransaction
)-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                     : Initializing Spring DispatcherServlet 'dispatcherServlet'
)-8080-exec-1] o.s.web.servlet.DispatcherServlet
                                                     : Initializing Servlet 'dispatcherServlet'
)-8080-exec-1] o.s.web.servlet.DispatcherServlet
                                                     : Completed initialization in 3 ms
)-8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                    : In BookingsController entering createBooking
)-8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                     : In BookingsService entering createBooking
)-8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                     : In CrudRepository entering save
nce')
er, booked_on, from_date, num_of_rooms, room_numbers, room_price, to_date, transaction_id, booking_id) values (?, ?, ?, ?, ?, ?, ?, ?, ?)
 -8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                     : In CrudRepository existing save
 -8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                    : In BookingsService existing createBooking
 -8080-exec-1] c.e.s.booking.aspect.LoggingAspect
                                                    : In BookingsController existing createBooking
 -8080-exec-2] c.e.s.booking tepect LoggingAspect
                                                     : In BookingsController entering createBooking
 -8080-exec-2] c.e.s.booking.aspect.LoggingAspect
                                                     : In BookingsService entering enceteRooking
 -8080-exec-21 c.e.s.booking.aspect.LoggingAspect
                                                      : In CrudRepository entering save
er, booked_on, from_date, num_of_rooms, room_numbers, room_price, to_date, transaction_id, bookinq_id) values (?, ?, ?, ?, ?, ?, ?, ?, ?)
 -8080-exec-2] c.e.s.booking.aspect.LoggingAspect
                                                     : In CrudRepository existing save
 -8080-exec-2] c.e.s.booking.aspect.LoggingAspect
                                                     : In BookingsService existing createBooking
 -8080-exec-2] c.e.s.booking.aspect.LoggingAspect
                                                    : In BookingsController existing createBooking
```

AOP Logging Aspects

```
C LoggingAspect 0 m applyLogging
 © TransactionController.java × © LoggingAspect.java × 👸 application.properties × © TransactionService.java × © Transaction.java × © ErrorResponse.java ×
        import org.springframework.stereotype.Component;
 10
         1 usage _ agitcrumbs *
        @Aspect
 12
        @Component
         public class LoggingAspect {
             Logger logger = LoggerFactory.getLogger(LoggingAspect.class);
            @Around("execution(* com.example.payments..*(..))")
15
16 @
             public Object applyLogging(ProceedingJoinPoint joinPoint) throws Throwable{
                 MethodSignature signature = (MethodSignature) joinPoint.getSignature();
                 String className = signature.getDeclaringType().getSimpleName();
18
 19
                 String methodName = signature.getName();
 20
21
                 logger.info("In "+className+" entering "+methodName);
22
                 Object result= joinPoint.proceed();
  -booking D:\Upgrad_Projects\Sweet-home\serv
                                                import org.aspectj.lang.reflect.MethodSignature;
                                                import org.slf4j.Logger;
                                                import org.slf4j.LoggerFactory;
                                                import org.springframework.stereotype.Component;
  main
                                      10
   java
                                                1 usage 4 gitcrumbs *

    com.example.service.booking

✓ aspect

                                      11
                                                @Aspect

    LoggingAspect

                                                @Component
     Controller
                                                public class LoggingAspect {
     > 🛅 Dao
                                                    2 usages
     entities
                                                    Logger logger = LoggerFactory.getLogger(LoggingAspect.class);
                                      14
           Transaction
                                                    @Around("execution(* com.example.service.pooking..*(..))")
                                      15
     exceptions
                                      16 @
                                                    public Object applyLogging(ProceedingJoinPoint joinPoint) throws Throwable{
           BookingNotFoundException
                                                        MethodSignature signature = (MethodSignature) joinPoint.getSignature();

    CustomExceptionHandler

                                                        String className = signature.getDeclaringType().getSimpleName();
           © ErrorResponse
                                                        String methodName = signature.getName();
           RecordNotFoundException
     > repository
     V. Personalisa
```

