```
CabBookingServiceImpl.java 🖂
     package com.infy.cabbooking.service;
  3@ import java.util.ArrayList;
 20
 21
 22
     @Service(value="cabBookingService")
     @Transactional
     public class CabBookingServiceImpl implements CabBookingService {
         @Autowired
 26⊕
         private BookingRepository bookingRepository;
 27
         @Autowired
 28⊕
         private CabRepository cabRepository;
 29
 30
 31
         @Override
 32<del>0</del>
         public List<BookingDTO> getDetailsByBookingType(String bookingType) throws CabBookingException {
△33
             List<Booking> w1=bookingRepository.findByBookingType(bookingType);
 34
             List<BookingDTO> bookingDTOs=new ArrayList<>();
 35
             if(w1.isEmpty()) {
 36
                  throw new CabBookingException("Service.NO_DETAILS_FOUND");
 37
 38
             for (Booking booking:w1) {
 39
                  BookingDTO b=new BookingDTO();
 40
                  b.setBookingId(booking.getBookingId());
 41
                  b.setCustomerName(booking.getCustomerName());
 42
                  b.setBookingType(booking.getBookingType());
 43
                  b.setPhoneNo(booking.getPhoneNo());
 44
                  CabDTO c=new CabDTO();
 45
```

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☑ CabBookingServiceImpl.java 
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  40
                b.setBookingId(booking.getBookingId());
  41
                b.setCustomerName(booking.getCustomerName());
 42
                b.setBookingType(booking.getBookingType());
 43
                b.setPhoneNo(booking.getPhoneNo());
 44
                CabDTO c=new CabDTO();
 45
                c.setCabNo(booking.getCab().getCabNo());
 46
                c.setModelName(booking.getCab().getModelName());
 47
                c.setAvailability(booking.getCab().getAvailability());
 48
                c.setDriverPhoneNo(booking.getCab().getDriverPhoneNo());
 49
                b.setCabDTO(c);
 50
                bookingDTOs.add(b);
 51
 52
                return bookingDTOs;
 53
 54
 55
 56
 57⊕
        @Override
△58
        public Integer bookCab(BookingDTO bookingDTO) throws CabBookingException {
            BookingValidator bookingValidator=new BookingValidator();
 59
            bookingValidator.validate(bookingDTO);
 60
 61
            Optional < Cab > w1 = cab Repository.findBy Id(booking DTO.getCab DTO().getCab No());
 62
            Cab cab=w1.orElseThrow(()-> new CabBookingException("Service.CAB_NOT_FOUND"));
 63
            if(cab.getAvailability().equals("No")) {
 64
               throw new CabBookingException("Service.CAB_NOT_AVAILABLE");
 65
 66
 67
            Booking book=new Booking();
 68
```

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☐ CabBookingServiceImpl.java 
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           @Override
    570
           public Integer bookCab(BookingDTO bookingDTO) throws CabBookingException {
   △58
               BookingValidator bookingValidator=new BookingValidator();
    59
               bookingValidator.validate(bookingDTO);
    60
    61
               Optional<Cab> w1=cabRepository.findById(bookingDTO.getCabDTO().getCabNo());
               Cab cab=w1.orElseThrow(()-> new CabBookingException("Service.CAB_NOT_FOUND"));
    62
               if(cab.getAvailability().equals("No")) {
    63
                  throw new CabBookingException("Service.CAB NOT AVAILABLE");
    64
    65
    66
               Booking book=new Booking();
    67
    68
               book.setBookingType(bookingDTO.getBookingType());
    69
               book.setCustomerName(bookingDTO.getCustomerName());
    70
               book.setPhoneNo(bookingDTO.getPhoneNo());
    71
               cab.setAvailability("No");
    72
    73
               book.setCab(cab);
               bookingRepository.save(book);
    74
    75
               return book.getBookingId();
    76
    77
    78
    79
    80
    81
    82
    83
    84
    85
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```

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☑ LoggingAspect.java 
☒
    1 package com.infy.cabbooking.utility;
  3⊕ import org.apache.commons.logging.Log;
   10 @Component
   11 @Aspect
   12 public class LoggingAspect
   13
   14
         private static final Log LOGGER = LogFactory.getLog(LoggingAspect.class);
   15
         @AfterThrowing(pointcut="execution(* com.infy.cabbooking.service.CabBookingServiceImpl.*(..))",throwing="exception")
   160
  17
         public void logServiceException(CabBookingException exception)
  18
  19
     LOGGER.error(exception.getMessage(),exception);
  21
  22
  23
  24
```

```
package com.infy.cabbooking;
  3@ import java.util.ArrayList;
 24
    @SpringBootTest
    public class CabBookingApplicationTests {
 27
 28
        @Mock
 299
        private CabRepository cabRepository;
 30
 31
 32
 33⊕
        @Mock
        private BookingRepository bookingRepository;
 34
35
36⊕
        @InjectMocks
        private CabBookingService cabBookingService = new CabBookingServiceImpl();
37
38
39
400
        @Test
        public void bookCabInvalidCabNoTest() throws Exception{
41
            BookingDTO bookingDTO=new BookingDTO();
42
43
        bookingDTO.setCustomerName("Robert");
        bookingDTO.setBookingId(1001);
44
45
        bookingDTO.setPhoneNo(9867542341L);
46
        bookingDTO.setBookingType("Personal");
        CabDTO cabDTO=new CabDTO();
47
48
        cabDTO.setCabNo(451678);
49
        cabDTO.setDriverPhoneNo(9947835654L);
                                                                                                    Writab
```

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           ☑ CabBookingApplicationTests.java 🖾
  400
         public void bookCabInvalidCabNoTest() throws Exception{
  41
             BookingDTO bookingDTO=new BookingDTO();
  42
         bookingDTO.setCustomerName("Robert");
  43
         bookingDTO.setBookingId(1001);
  44
         bookingDTO.setPhoneNo(9867542341L);
  45
         bookingDTO.setBookingType("Personal");
  46
         CabDTO cabDTO=new CabDTO();
 47
         cabDTO.setCabNo(451678);
  48
        cabDTO.setDriverPhoneNo(9947835654L);
 49
        cabDTO.setModelName("Toyota");
 50
        cabDTO.setAvailability("Yes");
 51
        bookingDTO.setCabDTO(cabDTO);
 52
        CabDTO cab=new CabDTO();
 53
        cab.setCabNo(159721);
 54
        cab.setDriverPhoneNo(9947835654L);
 55
        cab.setAvailability("Yes");
56
       cab.setModelName("Toyota");
57
       Mockito.<Optional<Cab>>when(cabRepository.findById(cabDTO.getCabNo())).thenReturn(Optional.empty());
58
       CabBookingException cBE=Assertions.assertThrows(CabBookingException.class,()->cabBookingService.bookCab(bookingDTO));
59
60
       Assertions.assertEquals("Service.CAB_NOT_FOUND",cBE.getMessage());
61
62
63
649
       @Test
       public void getDetailsByBookingTypeNoDetailsFound() throws Exception{
65
           BookingDTO bookingDTO=new BookingDTO();
66
           bookingDTO.setCustomerName("Robert");
67
68
          bookingDTO.setBookingId(1001);
```

```
OD
         Assertions.assertEquals("Service.CAB NOT FOUND", cBE.getMessage());
 61
 62
 63
        @Test
 640
        public void getDetailsByBookingTypeNoDetailsFound() throws Exception{
 65
            BookingDTO bookingDTO=new BookingDTO();
 66
            bookingDTO.setCustomerName("Robert");
 67
            bookingDTO.setBookingId(1001);
 68
            bookingDTO.setPhoneNo(9867542341L);
 69
            bookingDTO.setBookingType("Shared");
 70
            CabDTO cabDTO=new CabDTO();
            cabDTO.setDriverPhoneNo(9947835654L);
            cabDTO.setModelName("Toyota");
            cabDTO.setAvailability("Yes");
 74
            bookingDTO.setCabDTO(cabDTO);
            List<Booking> bookings=new ArrayList<>();
            Booking b=new Booking();
 77
            b.setCustomerName("Robert");
            b.setBookingId(1001);
 79
            b.setPhoneNo(9867542341L);
 80
            b.setBookingType("Share");
 81
            Cab cab=new Cab();
 82
            cab.setDriverPhoneNo(9947835654L);
 83
            cab.setAvailability("Yes");
 84
 85
            cab.setModelName("Toyota");
            b.setCab(cab);
 86
            bookings.add(b);
 87
            BookingDTO booking1=new BookingDTO();
 88
```

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ookingApplicationTests.java 🔀
     b.setPhoneNo(9867542341L);
     b.setBookingType("Share");
     Cab cab=new Cab();
     cab.setDriverPhoneNo(9947835654L);
     cab.setAvailability("Yes");
     cab.setModelName("Toyota");
     b.setCab(cab);
     bookings.add(b);
     BookingDTO booking1=new BookingDTO();
     booking1.setCustomerName("Robert");
     booking1.setBookingId(1001);
     booking1.setPhoneNo(9867542341L);
     b.setBookingType("Share");
     CabDTO cab1=new CabDTO();
     cab1.setDriverPhoneNo(9947835654L);
     cab1.setAvailability("Yes");
     cab1.setModelName("Toyota");
     booking1.setCabDTO(cab1);
    Mockito.<List<Booking>>when(bookingRepository.findByBookingType(bookingDTO.getBookingType())).thenReturn(bookings);
    CabBookingException cBE=Assertions.assertThrows(CabBookingException.class,()->cabBookingService.getDetailsByBookingType(bookingType(bookingType()));
    Assertions.assertEquals("Service.NO_DETAILS_FOUND",cBE.getMessage());
```

