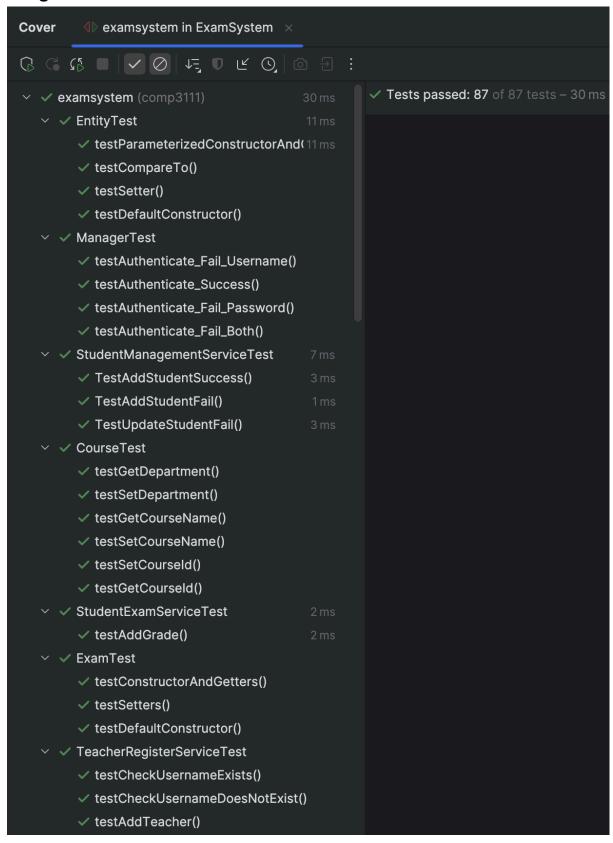
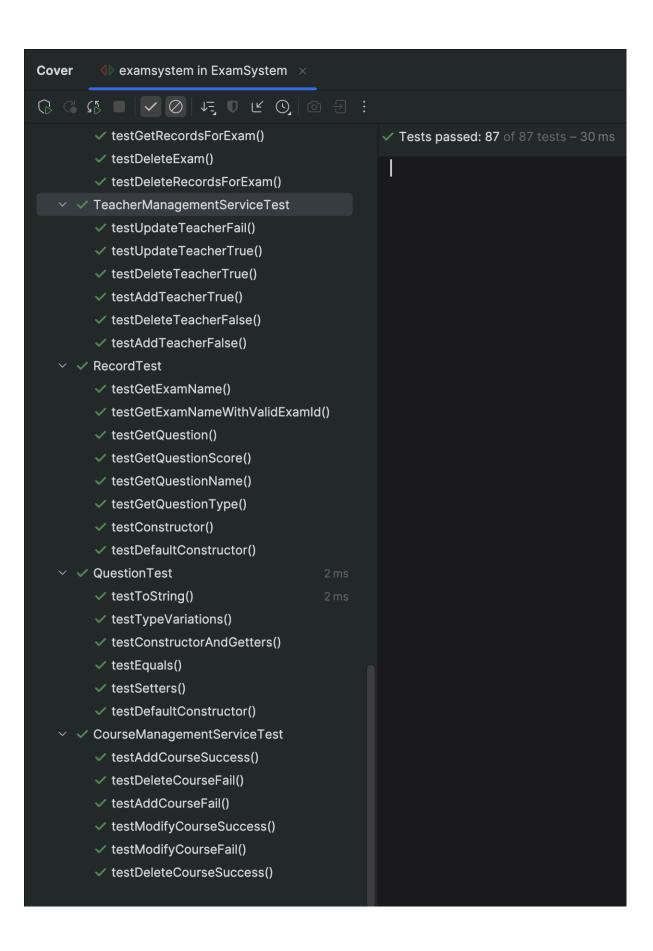
## **Integrated Tests:**







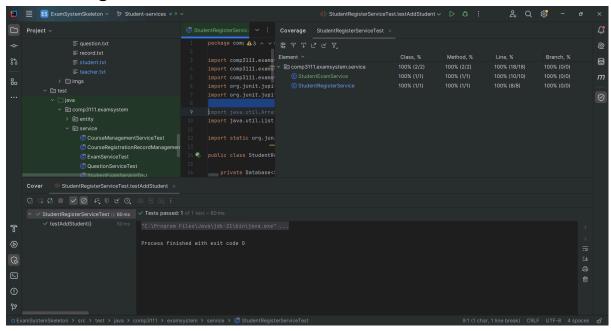


Coverage examsystem in ExamSystem ×				: -
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Element	Class, %	Method, %	Line, %	Branch, % ^
✓	51% (23/45)	48% (170/354)	28% (586/2080)	30% (285/934)
© MsgSender	0% (0/1)	0% (0/2)	0% (0/10)	0% (0/2)
>	4% (1/21)	1% (2/165)	0% (2/1349)	0% (0/554)
© FileUtil	100% (1/1)	100% (2/2)	75% (18/24)	37% (3/8)
© Database	100% (1/1)	68% (15/22)	61% (126/205)	53% (71/132)
∨	100% (9/9)	83% (26/31)	86% (220/254)	87% (181/208)
© CourseRegistrationRecordManagementService	100% (1/1)	100% (2/2)	96% (32/33)	79% (19/24)
© CourseManagementService	100% (1/1)	100% (3/3)	85% (42/49)	82% (41/50)
© StudentManagementService	100% (1/1)	66% (2/3)	66% (41/62)	82% (51/62)
© TeacherManagementService	100% (1/1)	100% (3/3)	98% (54/55)	96% (56/58)
© QuestionService	100% (1/1)	100% (4/4)	100% (4/4)	100% (0/0)
© StudentRegisterService	100% (1/1)	100% (1/1)	100% (8/8)	100% (0/0)
© StudentExamService	100% (1/1)	100% (1/1)	100% (10/10)	100% (0/0)
© TeacherRegisterService	100% (1/1)	100% (2/2)	100% (6/6)	100% (4/4)
© ExamService	100% (1/1)	66% (8/12)	85% (23/27)	100% (10/10)
<b>ℰ</b> Main	0% (0/1)	0% (0/2)	0% (0/7)	100% (0/0)
© DatabaseService	100% (1/1)	93% (15/16)	95% (22/23)	100% (0/0)
∨	100% (10/10)	96% (110/114)	95% (198/208)	100% (30/30)
© Entity	100% (1/1)	100% (5/5)	100% (7/7)	100% (0/0)
© Teacher	100% (1/1)	100% (17/17)	100% (26/26)	100% (0/0)
© CourseRegRecord	100% (1/1)	75% (6/8)	57% (8/14)	100% (0/0)
© Exam	100% (1/1)	90% (10/11)	82% (14/17)	100% (0/0)
© Course	100% (1/1)	88% (8/9)	91% (11/12)	100% (0/0)
© Student	100% (1/1)	100% (16/16)	100% (26/26)	100% (2/2)
© Manager	100% (1/1)	100% (1/1)	100% (1/1)	100% (2/2)
© Question	100% (1/1)	100% (20/20)	100% (31/31)	100% (8/8)
© Grade	100% (1/1)	100% (16/16)	100% (41/41)	100% (8/8)
© Record	100% (1/1)	100% (11/11)	100% (33/33)	100% (10/10)

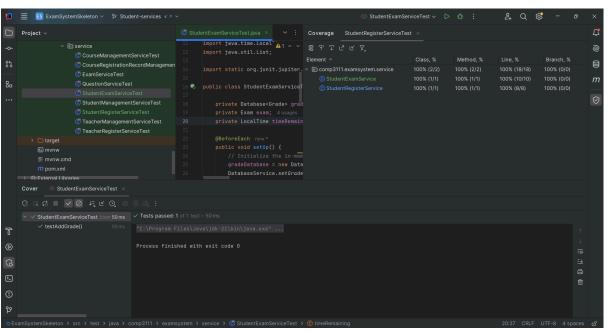
#### Task 1:

- Service

# StudentRegisterServiceTest:



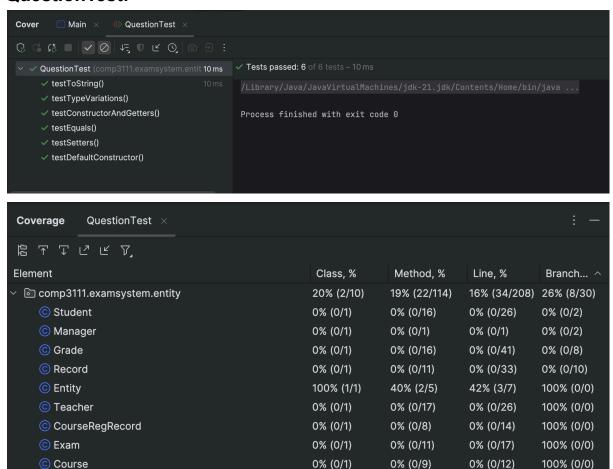
### StudentExamServiceTest:



#### Task 2:

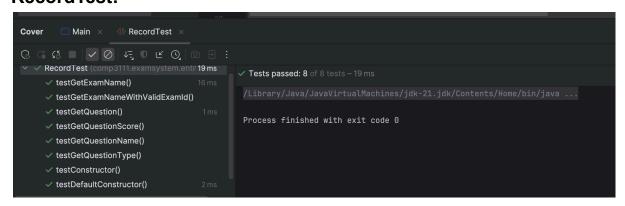
#### - Entities

#### QuestionTest:



#### RecordTest:

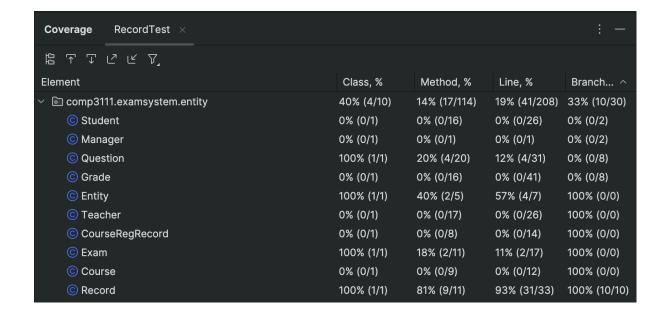
© Question



100% (1/1)

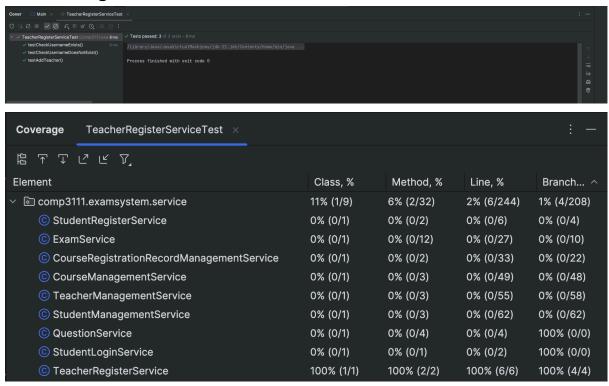
100% (20/20)

100% (31/31) 100% (8/8)

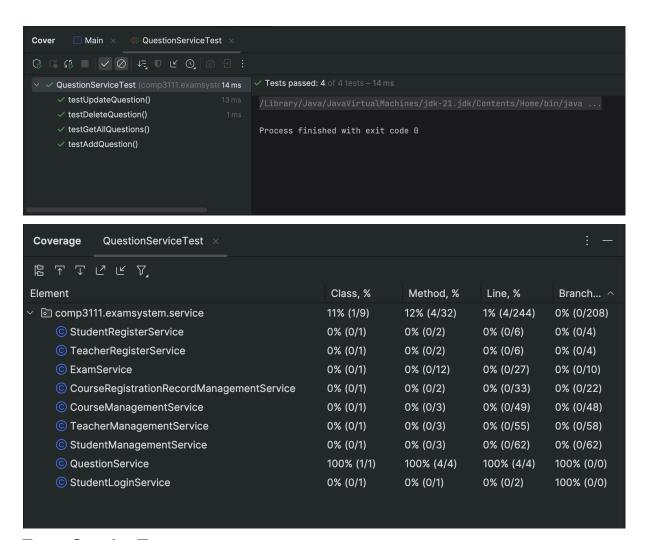


#### - Service:

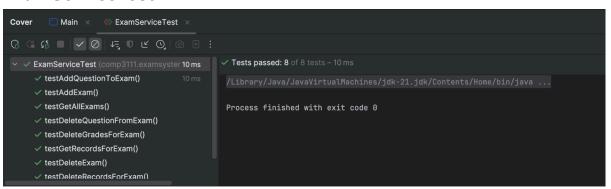
# TeacherRegisterServiceTest:



#### QuestionServiceTest:



#### ExamServiceTest:



Coverage ExamServiceTest ×				
<b>告</b> 不 Į ビ ビ ブ,				
Element	Class, %	Method, %	Line, %	Branch ^
∨	11% (1/9)	25% (8/32)	9% (23/244)	4% (10/208)
© StudentRegisterService	0% (0/1)	0% (0/2)	0% (0/6)	0% (0/4)
© TeacherRegisterService	0% (0/1)	0% (0/2)	0% (0/6)	0% (0/4)
© CourseRegistrationRecordManagementService	0% (0/1)	0% (0/2)	0% (0/33)	0% (0/22)
© CourseManagementService	0% (0/1)	0% (0/3)	0% (0/49)	0% (0/48)
© TeacherManagementService	0% (0/1)	0% (0/3)	0% (0/55)	0% (0/58)
© StudentManagementService	0% (0/1)	0% (0/3)	0% (0/62)	0% (0/62)
© QuestionService	0% (0/1)	0% (0/4)	0% (0/4)	100% (0/0)
© StudentLoginService	0% (0/1)	0% (0/1)	0% (0/2)	100% (0/0)
© ExamService	100% (1/1)	66% (8/12)	85% (23/27)	100% (10/10)

## Task3:

### **Entities:**

# Course, CourseRegRecord, Entity,Exam, Grade, Manager, Student, Teacher

© Course	100% (1/1)	88% (8/9)	91% (11/12)	100% (0/0)
© CourseRegRecord	100% (1/1)	75% (6/8)	57% (8/14)	100% (0/0)
© Entity	100% (1/1)	100% (5/5)	100% (7/7)	100% (0/0)
© Exam	100% (1/1)	90% (10/11)	82% (14/17)	100% (0/0)
© Grade	100% (1/1)	100% (16/16)	100% (41/41)	100% (8/8)
© Manager	100% (1/1)	100% (1/1)	100% (1/1)	100% (2/2)
© Student	100% (1/1)	100% (16/16)	100% (26/26)	100% (2/2)
© Teacher	100% (1/1)	100% (17/17)	100% (26/26)	10.00 0.000 0.000 0.000

## Service:

CourseManagementService,

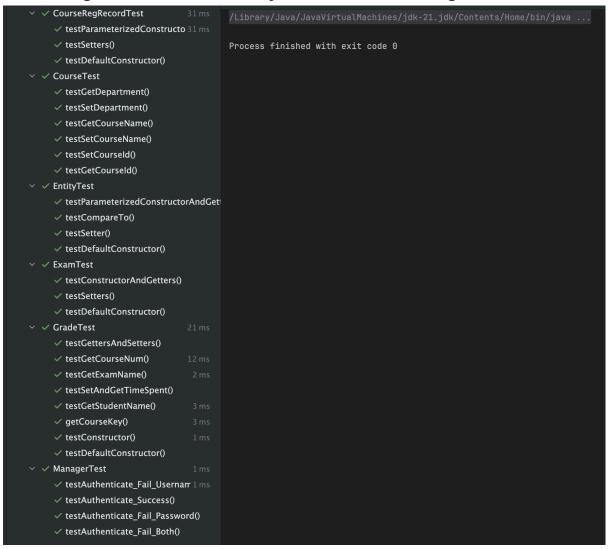
# CourseRegisterRecordService,StudentManagementService,TeaherManagementService

© CourseManagementService © CourseRegistrationRecordManagementService	100% (1/1) 100% (1/1)	100% (3/3) 100% (2/2)	83% (41/49) 93% (31/33)	81% (39/48) 72% (16/22)
© StudentManagementService	100% (1/1)	66% (2/3)	66% (41/62)	82% (51/62)
© TeacherManagementService	100% (1/1)	100% (3/3)	98% (54/55)	98% (57/58)

#### Student, Teacher Entities



## Course reg record, Course, Entity, Exam, Grade, Manager



Student management service, Teacher management service, Course Reg management service, Course management service

