Employee Name: PravinKumar RajaSahayam

Employee Id: 11946

Task: Test your application.

- 1. White Box Testing (Unit Testing):
- Write the Unit Test cases by using JUnit for your Back-End [Spring Boot].

### **Screenshots:**

1. For Registration:

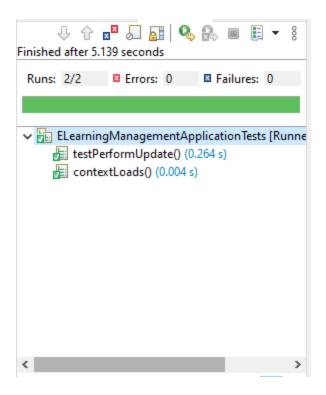
#### Code:

User(Student) Registration :

```
@Test
       @Order(1)
       void contextLoads() {
       @Test
 @Order(2)
 void testPerformUpdate() throws Exception {
  User obj = new User();
  obj.setUserid("101");
  obj.setUsername("PravinKumar");
  obj.setProfession("EEE");
  obj.setGender("Male");
  obj.setEmail("pravinkumar146@gmail.com");
  obj.setMobile("8095231476");
  obj.setAddress("Virudhunagar");
  obj.setPassword("PravinKumar@11946");
  registerUser = "Register Successfully";
  result = registrationcontroller.registerUser(obj);
  assertEquals(registerUser,result);
```

### Output:

```
Hibernate: select user@_email as email1_4_, user@_address as address2_4_, user@_gender as gender3_4_, user@_mobile as mobile4_4_, user@_
Hibernate: select user@_email as email1_4_0, user@_address as address2_4_0, user@_gender as gender3_4_0, user@_mobile as mobile4_4_0.
Hibernate: insert into user (address, gender, mobile, password, profession, userid, username, email) values (?, ?, ?, ?, ?, ?, ?, ?)
```



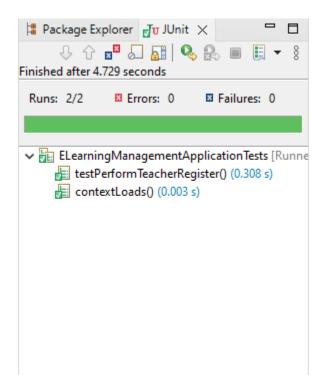
#### Database:

	email	address	gender	mobile	password	profession	userid	username
	pravinkumar@gmail.com	Bengaluru	Male	8973254160	PravinKumar@11946	ECE	empty	PravinKumar
•	pravinkumar 146@gmail.com	Virudhunagar	Male	8095231476	PravinKumar@11946	EEE	v 1ms 1mio 2l6H	PravinKumar

## • User(Teacher) Registration:

```
@Test
 @Order(3)
 void testPerformTeacherRegister() throws Exception {
  Teacher obj = new Teacher();
  obj.setTeacherid("109");
  obj.setTeachername("Preethi");
  obj.setGender("Female");
  obj.setEmail("preethi12345@gmail.com");
  obj.setMobile("9875231460");
  obj.setExperience("3");
  obj.setDepartment("ECE");
  obj.setDegreecompleted("PHD");
  obj.setInstitutionname("VVE");
  obj.setPassword("Preethi@123456");
  obj.setStatus("accept");
  registerTeacher = "Registered Successfully";
  result = registrationcontroller.registerDoctor(obj);
  assertEquals(registerTeacher,result);
```

Hibernate: select teacher@\_email as email1\_3\_, teacher@\_degreecompleted as degreeco2\_3\_, teacher@\_department as departme3\_3\_, teacher@\_experience Hibernate: select teacher@\_email as email1\_3\_0\_, teacher@\_degreecompleted as degreeco2\_3\_0\_, teacher@\_department as departme3\_3\_0\_, teacher@\_exper Hibernate: insert into teacher (degreecompleted, department, experience, gender, institutionname, mobile, password, status, teacherid, teachername, em



#### Database:



\_\_\_\_\_

## 2. For Login:

#### Code:

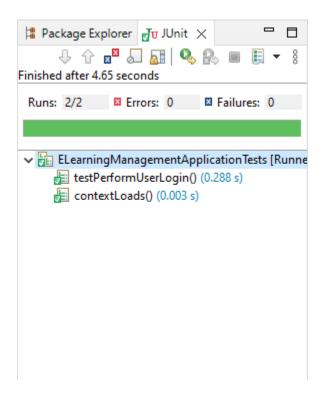
#### User(Student) Login :

```
@Test
@Order(4)

void testPerformUserLogin() throws Exception {
    User obj = new User();
    obj.setEmail("pravinkumar1468@gmail.com");
    obj.setPassword("PravinKumar@11946");
    loginUser = "Login Successfully";
    result1 = logincontroller.loginUser(obj);
```

```
assertEquals(loginUser,result1);
}
```

Hibernate: select user@\_email as email1\_4\_, user@\_address as address2\_4\_, user@\_gender as gender3\_4\_, user@\_mobile as mobile4\_4\_, user@\_password



#### Database:

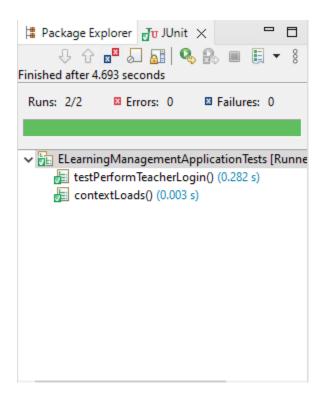
```
pravinkumar1468@gmail.com Virudhunagar Male 8095231476 PravinKumar@11946 EEE yTjVInUf0fCa PravinKumar
```

## • <u>User(Teacher) Login :</u>

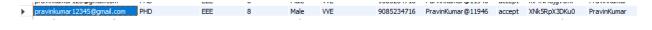
```
@Order(5)
void testPerformTeacherLogin() throws Exception {
    Teacher obj = new Teacher();
    obj.setEmail("preethi12345@gmail.com");
    obj.setPassword("Preethi123mail.com");
    loginTeacher = "Login Successfully";
    result1 = logincontroller.loginDoctor(obj);
    assertEquals(loginTeacher,result1);
}
```

### Output:

Hibernate: select teacher@\_email as email1\_3\_, teacher@\_.degreecompleted as degreeco2\_3\_, teacher@\_.department as departme3\_3\_, teacher@\_.experience



#### Database:



\_\_\_\_\_

## 3. User(Student):

For update the user profile :

```
@Test
@Order(7)
void testPerformUpdateUserProfile() throws Exception {
    User obj = new User();
    obj.setUserid("1019");
    obj.setUsername("PravinKumar");
    obj.setProfession("EEE");
    obj.setGender("Male");
    obj.setEmail("pravinkumar1468@gmail.com");
```

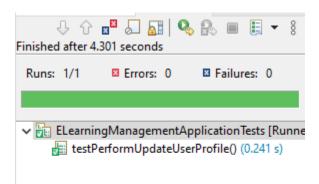
```
obj.setMobile("8095231746");
obj.setAddress("Virudhunagar");
obj.setPassword("PravinKumar@11946");
updateUser = "User Updated Successfully";
result = userservice.updateUserProfile(obj);
assertEquals(updateUser,result);
}
```

```
Hibernate: select user@_email as email1_4_0_, user0_.address2_4_0_, user0_.gender as gender3_4_0_, user0_.mobile as mobile4_4_0_, user0_.

Hibernate: update user set address=?, gender=?, mobile=?, password=?, profession=?, userid=?, username=? where email=?

2024-02-08 15:22:36.831 INFO 8700 --- [ionShutdownHook] _i.localContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence

2024-02-08 15:22:36.833 INFO 8700 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
```



#### Database:

	email	address	gender	mobile	password	profession	userid	username
	pravinkumar@gmail.com	Bengaluru	Male	8973254160	PravinKumar@11946	ECE	empty	PravinKumar
	pravinkumar146@gmail.com	Virudhunagar	Male	8095231476	PravinKumar@11946	EEE	y 1ms 1mio 2l6H	PravinKumar
•	pravinkumar1468@gmail.com	Virudhunagar	Male	8095231746	PravinKumar@11946	EEE	1019	PravinKumar

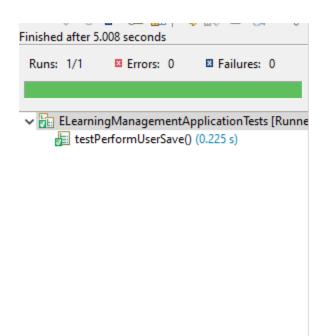
#### For save the new user :

#### Code:

@Test

```
@Order(13)
void testPerformUserSave() throws Exception {
    User obj = new User();
    obj.setUserid("001");
    obj.setUsername("PravinKumar");
    obj.setProfession("EEE");
    obj.setGender("Male");
    obj.setEmail("pravinkumar1230@gmail.com");
    obj.setMobile("8095231476");
    obj.setAddress("Virudhunagar");
    obj.setPassword("PravinKumar@11946");
    userSave = "Register Successfully";
    result = userservice.saveUser(obj);
    assertEquals(userSave,result);
}
```

Hibernate: select user@\_email as email1\_4\_0\_, user@\_address as address2\_4\_0\_, user@\_.gender as gender3\_4\_0\_, user@\_.mobile as mobile4\_4\_0\_, user@ Hibernate: insert into user (address, gender, mobile, password, profession, userid, username, email) values (?, ?, ?, ?, ?, ?, ?, ?)



### Database:

	email	address	gender	mobile	password	profession	userid	username
	pravinkumar@gmail.com	Bengaluru	Male	8973254160	PravinKumar@11946	ECE	empty	PravinKumar
<b> </b>	pravinkumar 1230@gmail.com	Virudhunagar	Male	8095231476	PravinKumar@11946	EEE	001	PravinKumar

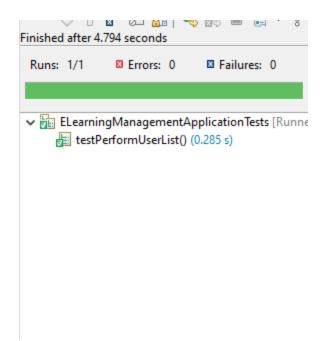
## • For get all the user details :

### Code:

```
@Test
 @Order(6)
 void testPerformUserList() throws Exception {
   list1 = (List<User>) userservice.getAllUsers();
User("1019","PravinKumar","EEE","Male","pravinkumar1468@gmail.com","8095231476","Virudhunagar
","PravinKumar@11946");
   user2 = new
User("ulC9r6oDV4XN","user","csa","Male","rjpravin11111@gmail.com","8976532140","east","PravinKu
mar@11946");
   user3 = new
User("cQvHllylK9Cv","PravinKumarUserId","EEE","Female","rjpravin1236@gmail.com","8932541760","
East","PravinKumar@11946");
   list2.add(user1);
   list2.add(user2);
   list2.add(user3);
   list3.add(user1);
   list3.add(user2);
   list3.add(user3);
   list2.equals(list3);
   assertEquals(list2, list3);
```

### Output:

Hibernate: select user@\_email as email1\_4\_, user@\_address as address2\_4\_, user@\_'gender as gender3\_4\_, user@\_mobile as mobile4\_4\_, user@\_password



## <u>Database :</u>

	email	address	gender	mobile	password	profession	userid	username
•	pravinkumar@gmail.com	Bengaluru	Male	8973254160	PravinKumar@11946	ECE	empty	PravinKumar
	pravinkumar 1230@gmail.com	Virudhunagar	Male	8095231476	PravinKumar@11946	EEE	001	PravinKumar
	pravinkumar 146@gmail.com	Virudhunagar	Male	8095231476	PravinKumar@11946	EEE	y 1ms 1mio 2l6H	PravinKumar
	pravinkumar1468@gmail.com	Virudhunagar	Male	8095231746	PravinKumar@11946	EEE	1019	PravinKumar
	rjpravin11111@gmail.com	east	Male	8976532140	PravinKumar@11946	csa	ulC9r6oDV4XN	user
	rjpravin11146@gmail.com	east	Male	8976532140	PravinKumar@11946	csa	iStjbGPpocyi	users

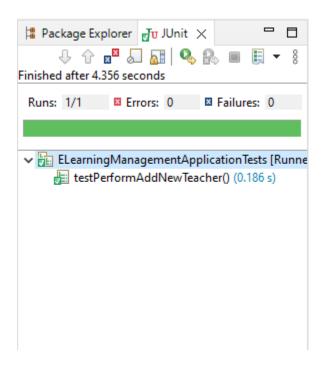
## 4. User(Teacher):

## Add new teacher :

```
@Test
@Order(9)
void testPerformAddNewTeacher() throws Exception {
    Teacher obj = new Teacher();
    obj.setTeacherid("110");
    obj.setGender("PravinKumar");
    obj.setGender("Male");
    obj.setEmail("pravinkumar325@gmail.com");
    obj.setMobile("9875231460");
    obj.setExperience("3");
    obj.setDepartment("ECE");
    obj.setDegreecompleted("PHD");
```

```
obj.setInstitutionname("VVE");
obj.setPassword("Preethi@123456");
obj.setStatus("accept");
addteacher = "Add Successfully";
result = teacherservice.addNewTeacher(obj);
assertEquals(addteacher,result);
}
```

Hibernate: select teacher@\_email as email1\_3\_0\_, teacher@\_degreecompleted as degreeco2\_3\_0\_, teacher@\_department as departme3\_3\_0\_, teacher@\_exper Hibernate: insert into teacher (degreecompleted, department, experience, gender, institutionname, mobile, password, status, teacherid, teachername, em



### Database:



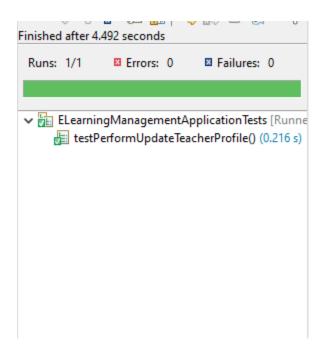
Update existing teacher:

```
@Test
@Order(10)

void testPerformUpdateTeacherProfile() throws Exception {
    Teacher obj = new Teacher();
    obj.setTeacherid("110");
    obj.setTeachername("PravinKumar");
    obj.setGender("Male");
```

```
obj.setEmail("pravinkumar3256@gmail.com");
obj.setMobile("9875231460");
obj.setExperience("3");
obj.setDepartment("ECE");
obj.setDegreecompleted("PHD");
obj.setInstitutionname("VVE");
obj.setPassword("Preethi@123456");
obj.setStatus("accept");
updateteacher = "Updated Successfully";
result = teacherservice.updateteacherProfile(obj);
assertEquals(updateteacher,result);
}
```

Hibernate: select teacher0\_.email as email1\_3\_0\_, teacher0\_.degreecompleted as degreeco2\_3\_0\_, teacher0\_.department as departme3\_3\_0\_, teacher0\_.exper



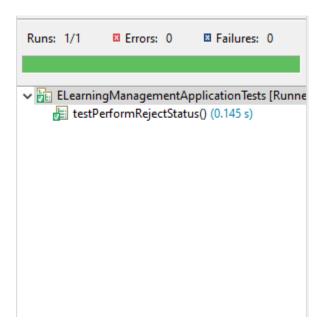
# <u>Database :</u>

pravinkumar3256@gmail.com	PHD	ECE	3	Male	VVE	9875231460	Preethi@123456	accept	110	PravinKumar

Update teacher status has reject :

```
@Test
    @Order(11)
    void testPerformRejectStatus() throws Exception {
    reject = "reject";
    result = teacherservice.rejectStatus(reject);
    assertEquals(reject,result);
}
```

Hibernate: update teacher set status = 'reject' where email = ?



## Database:

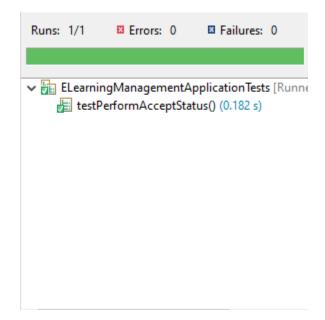
rjpravin123456789@gmail.com	PHD	CSE	3	Male	VVE	6369745509	PravinKumar@11946	reject

Update teacher status has accept :

```
@Test
@Order(12)
void testPerformAcceptStatus() throws Exception {
```

```
accept = "accept";
result = teacherservice.updateStatus(accept);
assertEquals(accept,result);
}
```

Hibernate: update teacher set status = 'accept' where email = ?



### Database:

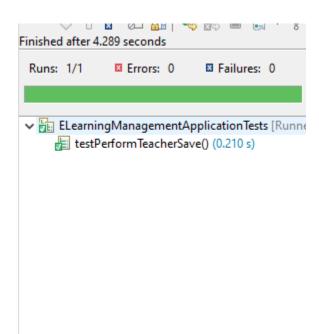
preethi12345@gmail.com PHD ECE 3 Female VVE 9875231460 Preethi@123456 accept

For save the new teacher :

```
@Test
@Order(14)
void testPerformTeacherSave() throws Exception {
    Teacher obj = new Teacher();
    obj.setTeacherid("6");
    obj.setGender("PravinKumar");
    obj.setGender("Male");
    obj.setEmail("pravinkumar321@gmail.com");
    obj.setMobile("9875231460");
    obj.setExperience("3");
    obj.setDepartment("ECE");
    obj.setDegreecompleted("PHD");
```

```
obj.setInstitutionname("VVE");
obj.setPassword("Preethi@123456");
obj.setStatus("accept");
teacherSave = "Registered Successfully";
result = teacherservice.saveTeacher(obj);
assertEquals(teacherSave,result);
}
```

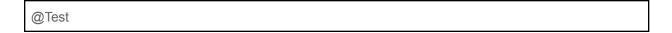
Hibernate: select teacher@ .email as email1\_3\_0, teacher@ .degreecompleted as degreeco2\_3\_0\_, teacher@ .department as department as department



### <u>Database :</u>

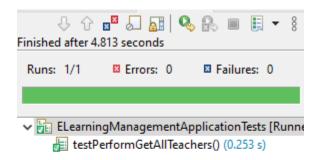
		email	degreecompleted	department	experience	gender	institutionname	mobile	password	status	teacherid	teachername
		pravinkumar12345@gmail.com	PHD	EEE	8	Male	VVE	9085234716	PravinKumar@11946	accept	XNk5RpX3DKu0	PravinKumar
		pravinkumar 123456@gmail.com	PHD	EEE	8	Male	VVE	9085234716	PravinKumar@11946	accept	SE3HtFp7obu0	PravinKumar
	•	pravinkumar321@gmail.com	PHD	ECE	3	Male	VVE	9875231460	Preethi@123456	accept	6	PravinKumar
- 1												

For get all the user(teacher) details :



```
@Order(22)
       void testPerformGetAllTeachers() throws Exception {
 list4 = teacherservice.getAllTeachers();
 teacher1 = new
Teacher("anish123@gmail.com","PHD","ECE","3","Male","VVS","0986432145","Anish@11946","accept"
,"yMf5dqrl0evc","Anish");
 teacher2 = new
Teacher("anitha1234@gmail.com","PHD","EEE","3","Female","VVS","0986432145","Anitha@11946","a
ccept","yMf5dqrl0oia3","Anitha");
 teacher3 = new
Teacher("pravinkumar123@gmail.com","PHD","CSE","3","Male","VVS","0986432145","PravinKumar@1
1946", "accept", "yMf5dqrl0ertys", "PravinKumar");
 list5.add(teacher1);
 list5.add(teacher2);
 list5.add(teacher3);
 list6.add(teacher1);
 list6.add(teacher2);
 list6.add(teacher3);
 list5.equals(list6);
 assertEquals(list5, list6);
        }
```

Hibernate: select teacher@.email as email1\_3, teacher@.degreecompleted as degreeco2\_3, teacher@.department as departme3\_3, teacher@.experience



## Database:

							_	-			
	email	degreecompleted	department	experience	gender	institutionname	mobile	password	status	teacherid	teachername
	rjpravinteacher@gmail.com	PHD	EEE	4	Female	VVE	8763245109	PravinKumar@11946	accept	jAl39zDsrpNb	TeacherC
	rjpravinrj123@gmail.com	PHD	ECE	3	Female	VVS	0986432145	PravinKumar@11946	accept	VR561ZHx1IqF	PravinKumar
•	rjpravinr001j@gmail.com	phd	EEE	3	Female	VVE	1234567890	PravinKumar@11946	accept	ph0ebJEraNfn	PravinKumar
	rjpravin 168@gmail.com	BE	CSE	3	Male	VVE	6369745509	PravinKumar@11946	accept	ZYFsb0egt6W1	PravinKumar
	rjpravin 160@gmail.com	PHD	ECE	3	Female	VVEC	9807325416	PravinKumar@11946	accept	empty	Anitha
	rjpravin 123@gmail.com	PHD	CSE	3	Male	VVE	6369745509	PravinKumar@11946	accept	4VsyyeWOYb2b	PravinKumar

\_\_\_\_\_

#### 5. Course:

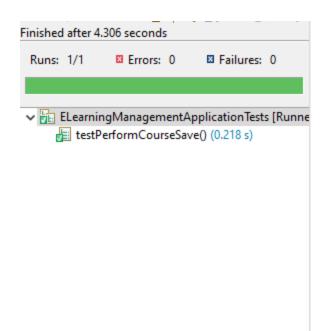
Save Course :

#### Code:

```
@Test
@Order(15)
void testPerformCourseSave() throws Exception {
 Course obj = new Course();
 obj.setCourseid("81");
 obj.setCoursename("Spring");
 obj.setCoursetype("Website");
 obj.setDescription("Sprin Boot for the freshers");
 obj.setEnrolledcount("0");
 obj.setEnrolleddate("03/09/2023");
 obj.setId(81);
 obj.setInstructorinstitution("VVE");
 obj.setInstructorname("PravinKumar");
 obj.setLanguage("English");
 obj.setSkilllevel("Basic");
 obj.setWebsiteurl("www.javatutorial.com");
 CourseSave = "Sucessfully Saved";
 result = courseservice.saveCourse(obj);
 assertEquals(CourseSave,result);
```

### **Output:**

```
Hibernate: select course@_.id as idl_1_0_, course@_.courseid as courseid2_1_0_, course@_.coursename as coursena3_1_0_, course@_.coursetype as coursety Hibernate: select next_val as id_val from hibernate_sequence for update Hibernate: update hibernate_sequence set next_val=? where next_val=? Hibernate: insert into course (courseid, coursename, coursetype, description, enrolleddount, enrolleddate, instructorinstitution, instructorname, lang
```



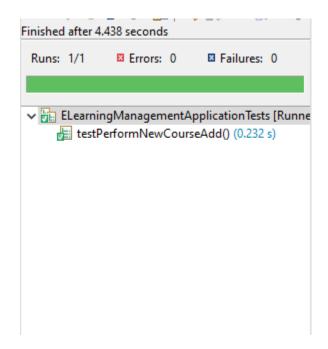
#### Database:

							_					
	id	courseid	coursename	coursetype	description	enrolledcount	enrolleddate	instructorinstitution	instructorname	language	skillevel	websiteurl
	78	78bcn9H4zunr	Α	Youtube	A	4	2024-01-30	VVC	PravinKumar	Tamil	Basic	
	87	GyoOrcPobNuA	Cloud	Youtube	Cloud Engineering	1	2024-01-30	VVC	Anish	English	Basic	
	89	bxXiTxDvJvAW				0						
	91	81	Spring	Website	Sprin Boot for the freshers	0	03/09/2023	VVE	PravinKumar	English	Basic	www.javatutorial.
1	NULL	NULL	NULL	NULL	HULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

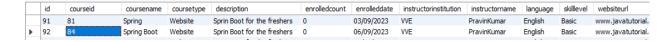
### Add new course :

```
@Test
@Order(16)
void testPerformNewCourseAdd() throws Exception {
 Course obj = new Course();
 obj.setCourseid("84");
 obj.setCoursename("Spring Boot");
 obj.setCoursetype("Website");
 obj.setDescription("Spring Boot for the freshers");
 obj.setEnrolledcount("0");
 obj.setEnrolleddate("06/09/2023");
 obj.setId(81);
 obj.setInstructorinstitution("VVE");
 obj.setInstructorname("PravinKumar");
 obj.setLanguage("English");
 obj.setSkilllevel("Basic");
 obj.setWebsiteurl("www.javatutorial.com");
 Courseadd = "Successfully added";
 result = courseservice.addNewCourse(obj);
 assertEquals(Courseadd,result);
```

Hibernate: select course@\_.id as id1\_1\_0\_, course@\_.courseid as courseid2\_1\_0\_, course@\_.coursename as coursena3\_1\_0\_, course@\_.coursetype as coursety Hibernate: select next\_val as id\_val from hibernate sequence for update Hibernate: update hibernate\_sequence set next\_val=? where next\_val=? Hibernate: insert into course (courseid, coursename, coursetype, description, enrolledcount, enrolleddate, instructorinstitution, instructorname, lang



#### Database:



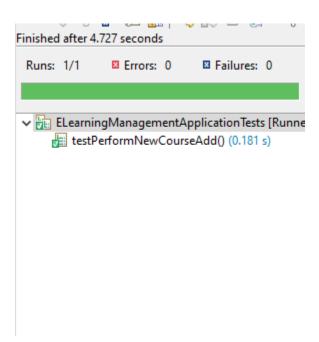
• Update enrolled count for the particular course :

```
@Test
@Order(17)

void testPerformNewCourseAdd() throws Exception {
    Course obj = new Course();
    EnrolledUpdate = "Enrolled Updated";
    result = courseservice.updateEnrolledcount(Courseadd, 1);
```

```
assertEquals(EnrolledUpdate,result);
}
```

Hibernate: update course set enrolledcount = ? where coursename = ?



#### Database:

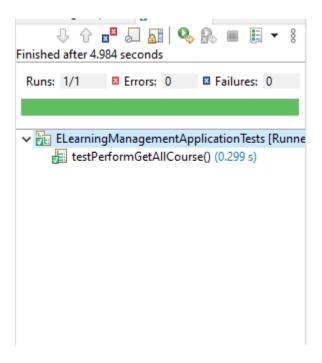


For get all the course details :

```
@Test
    @Order(6)
    void testPerformGetAllCourse() throws Exception {
        list7 = courseservice.getAllCourses();
        course1 = new Course(84,"95","Spring Boot","website","Spring
Boot","1","13/09/23","VVE","PravinKumar","English","Basic","www.javatutorial.com",
        "www.javatutorial.com");
        course2 = new
Course(85,"96","Spring","website","Spring","1","13/09/23","VVE","PravinKumar","English","Basic","www.javatutorial.com", "www.javatutorial.com");
        course(86,"98","Java","website","Java","1","13/09/23","VVE","PravinKumar","English","Basic","www.javatutorial.com", "www.javatutorial.com");
```

```
list8.add(course1);
           list8.add(course2);
           list8.add(course3);
           list9.add(course1);
           list9.add(course2);
           list9.add(course3);
           list8.equals(list9);
           assertEquals(list8, list9);
list5.add(teacher1);
list5.add(teacher2);
list5.add(teacher3);
list6.add(teacher1);
list6.add(teacher2);
list6.add(teacher3);
list5.equals(list6);
assertEquals(list5, list6);
       }
```

Hibernate: select course0\_.id as id1\_1\_, course0\_.courseid as courseid2\_1\_, course0\_.coursename as coursena3\_1\_, course0\_.coursetype as coursety4\_1\_,



## <u>Database :</u>

					_		_					
	id	courseid	coursename	coursetype	description	enrolledcount	enrolleddate	instructorinstitution	instructorname	language	skillevel	websiteurl
	72	vRjrW36kT88j	Java	Youtube	Java	9	2024-01-30	VVE	PravinKumar	Tamil	Basic	
	76	vX57epLnxx7K	PHP	Website	PHP	0	2024-01-30	VVC	PravinKumar	Tamil	Basic	
	78	78bcn9H4zunr	Α	Youtube	A	4	2024-01-30	VVC	PravinKumar	Tamil	Basic	
•	84	95	Spring Boot	website	Spring Boot	1	13/09/23	VVE	PravinKumar	English	Basic	www.javatutorial.
	87	GyoOrcPobNuA	Cloud	Youtube	Cloud Engineering	1	2024-01-30	VVC	Anish	English	Basic	

—.....

## 6. Chapter:

Save Chapter :

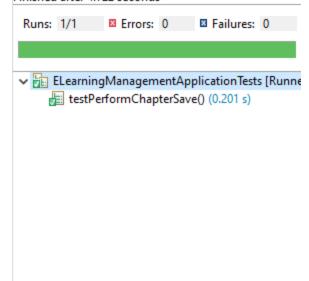
## Code:

```
@Test
@Order(18)
void testPerformChapterSave() throws Exception {
   Chapter obj = new Chapter();
   obj.setChapter1id("009");
   obj.setChapter1name("Spring Boot");
   ChapterSave = "Chapter saved";
   result = chapterservice.saveChapter(obj);
   assertEquals(ChapterSave,result);
}
```

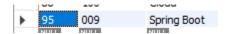
### Output:

Hibernate: select next\_val as id\_val from hibernate\_sequence for update
Hibernate: update hibernate\_sequence set next\_val=? where next\_val=?
Hibernate: insert into chapter (chapterlid, chapterlname, chapter2id, chapter2name, chapter3id, chapter3name, chapter4id, chapter4name, chapter5id, c

### Finished after 4.722 seconds



### Database:



## Add new chapter :

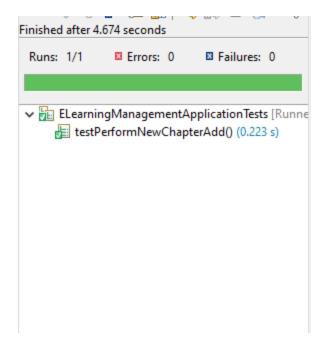
## Code:

```
@Test
@Order(19)

void testPerformNewChapterAdd() throws Exception {
    Chapter obj = new Chapter();
    obj.setChapter1id("008");
    obj.setChapter1name("Angular");
    Chapteradd = "Chapter Added";
    result = chapterservice.addNewChapter(obj);
    assertEquals(Chapteradd,result);
}
```

### Output:

```
Hibernate: select next_val as id_val from hibernate_sequence for update
Hibernate: update hibernate_sequence set next_val=? where next_val=?
Hibernate: insert into chapter (chapter1id, chapter1name, chapter2id, chapter2name, chapter3id, chapter3name, chapter4id, chapter4name, chapter5id, ch
2024-02-08 17:43:05.556 INFO 21408 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence
```



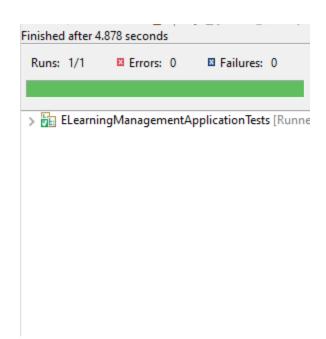
### Database:

_		. — -			
	id	chapter 1id	chapter 1 name		
	95	009	Spring Boot		
•	96	008	Angular		

For get all the chapter details :

```
@Test
          @Order(24)
          void testPerformGetAllChapter() throws Exception {
             list10 = chapterservice.getAllChapters();
             chapter1 = new Chapter(73,"100","Java", null, null, null, null, null, null, null, null, null, null,
null, null, null, null, null, null);
             chapter2 = new Chapter(74,"111","Spring", null, null, null, null, null, null, null, null, null, null,
null, null, null, null, null, null);
             chapter3 = new Chapter(75, "98", "Spring Boot", null, null, null, null, null, null, null, null, null,
null, null, null, null, null, null, null);
                                                list11.add(chapter1);
             list11.add(chapter2);
             list11.add(chapter3);
             list14.add(chapter1);
             list14.add(chapter2);
             list14.add(chapter3);
             list11.equals(list14);
             assertEquals(list11, list14);
```

Hibernate: select chapter0\_id as id1\_0\_, chapter0\_.chapter1id as chapter2\_0\_, chapter0\_.chapter1name as chapter3\_0\_, chapter0\_.chapter2id as chapter4



# <u>Database :</u>

Re	Result Grid 1										
	id	chapter 1id	chapter 1 name								
•	73	100	Java								
	75	100	CCC								
	77	101	PHP								
	79	001	Α								
	88	100	Cloud								

\_\_\_\_\_

# 7. Enrollment:

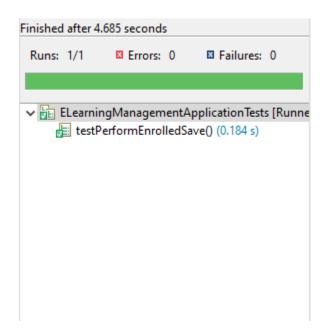
Save Enrollment :

## Code:

@Test

```
@Order(20)
void testPerformEnrolledSave() throws Exception {
    Enrollment obj = new Enrollment();
    obj.setCourseid("81");
    obj.setCoursename("Spring");
    obj.setCoursetype("website");
    obj.setDescription("Spring");
    obj.setEnrolledcount("1");
    obj.setEnrolleddate("03/09/23");
    obj.setEnrolleddserid("y1ms1mio2l6H");
    obj.setEnrolledusername("PravinKumar");
    obj.setEnrolledusertype("user");
    EnrollSave = "Enrolled saved";
    result = enrollementservice.saveEnrollment(obj);
    assertEquals(EnrollSave,result);
}
```

```
Hibernate: select next_val as id_val from hibernate_sequence for update
Hibernate: update hibernate_sequence set next_val=?
Hibernate: insert into enrollment (courseid, coursename, coursetype, description, enrolledcount, enrolleddate, enrolleduserid, enrolledusername, enrolledcount, enrolle
```



## <u>Database :</u>

84	95	Spring Boot	website	Spring Boot	1

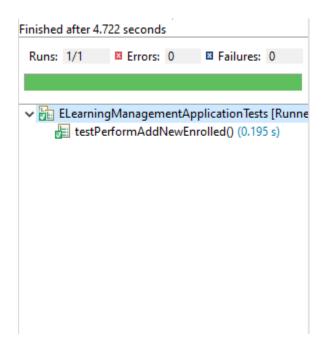
# Add new enrolled :

### Code:

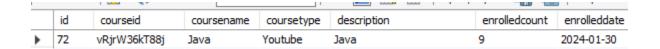
```
@Test
@Order(21)
void testPerformAddNewEnrolled() throws Exception {
 Enrollment obj = new Enrollment();
 obj.setCourseid("89");
 obj.setCoursename("Java");
 obj.setCoursetype("website");
 obj.setDescription("Java");
 obj.setEnrolledcount("1");
 obj.setEnrolleddate("03/09/23");
 obj.setEnrolleduserid("y1ms1mio2l6H");
 obj.setEnrolledusername("PravinKumar");
 obj.setEnrolledusertype("user");
 Enrolladd = "Enrolled added";
 result = enrollementservice.addNewEnrollment(obj);
 assertEquals(Enrolladd,result);
```

### Output:

Hibernate: select next\_val as id\_val from hibernate\_sequence for update
Hibernate: update hibernate\_sequence set next\_val=?
Hibernate: insert into enrollment (courseid, coursename, coursetype, description, enrolledcount, enrolleddate, enrolleduserid, enrolledusername, enrol



#### Database:

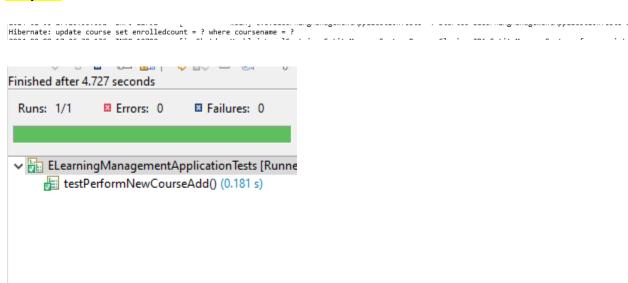


Update enrolled count for the particular course :

### Code:

```
@Test
@Order(17)
void testPerformNewCourseAdd() throws Exception {
   Course obj = new Course();
   EnrolledUpdate = "Enrolled Updated";
   result = courseservice.updateEnrolledcount(Courseadd, 1);
   assertEquals(EnrolledUpdate,result);
}
```

### Output:



## Database:

•	84 95	Spring Boot	website	Spring Boot	1	13/09/23	VVE	PravinKumar	English	Basic	www.javatutorial.