

Università degli Studi di Salerno

Corso di Ingegneria del Software

SocialNotes

Test Execution Report DAO

Versione 1.0



Data: 14/02/2022

Partecipanti:

Nome	Matricola
Alfonso Califano	0512109653
Armando Caso	0512106453
Francesco Di Lauro	0512106873
Simone Della Porta	0512109134

Revision History

Data	Versione	Descrizione	Autore
14/02/2022	1.0	Prima stesura del documento	Membri del team

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1. User:

Runs: 159/159 Errors: 5 Failures: 0

UserModelDSTest [Runner: JUnit 5] (20,480 s)

- testMotoreRicercaROrderEmptyNoRatingUserVuoto (3,598 s)
- testDoUpdateDepartmentUniNull (0,310 s)
- testMotoreRicercaROrderASCNoRatingUserNotPresent (0,480 s)
- testManageBanDataNonValida (0,316 s)
- testDoUpdateEmailUsernameVuoto (0,199 s)
- testDoUpdateCoinNegativUsernameNonPresente (0,261 s)
- testMotoreRicercaROrderNVNoRatingUserNotPresent (0,304 s)
- testDoUpdateDepartmentVuotoUserVuoto (0,171 s)
- testMotoreRicercaROrderASCNoRating (0,252 s)
- testDoRetrieveUsersPresenti (0,175 s)
- testManageBanDataNull (0,155 s)
- testDoRetrieveByEmailNull (0,186 s)
- testDoUpdateDepartmentNullUniNullUserNotPresent (0,148 s)
- testDoUpdateEmailVuotaUsernameVuoto (0,169 s)
- testMotoreRicercaROrderDESCNoRating (0,191 s)
- testDoUpdateDepartmentNullUniVuotaUserNull (0,164 s)
- testMotoreRicercaROrderEmptyRatingUserNull (0,181 s)
- testDoUpdateImageUserVuoto (0,127 s)
- testDoUpdateDepartmentNull (0,121 s)
- testDoUpdateDepartmentVuotoUniNullUserVuoto (0,118 s)
- testDoUpdateImageNull (0,109 s)
- testManageBanUsernameNullDataNonValida (0,123 s)
- testDoUpdatePasswordNull (0,111 s)
- testCheckLoginUserVuotoPassVuoto (0,098 s)
- testDoUpdateImageNullUserNull (0,112 s)
- testDoUpdatePasswordVuotaUsernameVuoto (0,114 s)
- testDoRetrieveByEmailVuoto (0,099 s)
- testDoUpdateDepartmentNullUserNotPresent (0,098 s)

Failure Trace

```
org.h2.jdbc.JdbcSQLException: Function "AES_DECRYPT" not found; SQL statement:
SELECT Username, Nome, Cognome, Img, Email, Pass, DataNascita, Coin, Ban, Denominazione, DipName, AES_DECRYPT(Pass, 'despacito') as Password, Ruolo FROM Utente WHERE Email
at org.h2.message.DbException.getJdbcSQLException(DbException.java:651)
at org.h2.message.DbException.getJdbcSQLException(DbException.java:496)
at org.h2.message.DbException.get(DbException.java:227)
at org.h2.message.DbException.get(DbException.java:203)
at org.h2.command.Parser.readFunction(Parser.java:4179)
at org.h2.command.Parser.readTerm(Parser.java:5521)
at org.h2.command.Parser.readFactor(Parser.java:3726)
at org.h2.command.Parser.readSum(Parser.java:3713)
at org.h2.command.Parser.readConcat(Parser.java:3678)
at org.h2.command.Parser.readCondition(Parser.java:3461)
at org.h2.command.Parser.readExpression(Parser.java:3381)
at org.h2.command.Parser.parseSelectExpressions(Parser.java:3196)
at org.h2.command.Parser.parseSelect(Parser.java:3213)
at org.h2.command.Parser.parseQuerySub(Parser.java:3092)
at org.h2.command.Parser.parseQuery(Parser.java:2900)
at org.h2.command.Parser.parsePrepared(Parser.java:1101)
at org.h2.command.Parser.parse(Parser.java:1068)
at org.h2.command.Parser.parse(Parser.java:1037)
at org.h2.command.Parser.prepareCommand(Parser.java:965)
at org.h2.engine.SessionLocal.prepareLocal(SessionLocal.java:624)
at org.h2.engine.SessionLocal.prepareCommand(SessionLocal.java:562)
at org.h2.jdbc.JdbcConnection.prepareCommand(JdbcConnection.java:1111)
at org.h2.jdbc.JdbcPreparedStatement.<init>(JdbcPreparedStatement.java:92)
at org.h2.jdbc.JdbcConnection.prepareStatement(JdbcConnection.java:283)
at profilo.UserModelDS.checkLogin(UserModelDS.java:33)
```

Runs: 159/159 Errors: 5 Failures: 0

testDoUpdateDepartmentUniNullUserVuoto (0,086 s)

testCheckLoginUserNullPassVuota (0,093 s)

testDoUpdateDepartmentUniVuota (0,091 s)

testDoUpdateDepartmentUniNullUserNull (0,151 s)

testMotoreRicercaROrderEmptyRatingUserNotPresent (0,145 s)

testDoUpdateDepartmentUserNull (0,117 s)

testMotoreRicercaROrderNullRating (0,085 s)

testGetValutazioneUsernameNull (0,164 s)

testMotoreRicercaROrderDESCNoRatingUserNull (0,104 s)

testCheckLogin (0,167 s)

testDoUpdateDepartmentNullUniNullUserNull (0,129 s)

testMotoreRicercaROrderDESCRating (0,158 s)

testDoUpdateDepartmentUserVuoto (0,064 s)

testMotoreRicercaROrderNullRatingUserVuoto (0,105 s)

testDoUpdatePasswordVuota (0,101 s)

testGetRoleUsernameNonPresente (0,097 s)

testDoUpdateEmailUsernameNonPresente (0,109 s)

testDoUpdatePasswordUsernameNonPresente (0,093 s)

testCheckLoginPassNull (0,092 s)

testMotoreRicercaROrderNVRatingUserNotPresent (0,117 s)

testDoUpdateImageUserNotPresente (0,197 s)

testCheckLoginUserVuotoPassNull (0,081 s)

testDoUpdatePasswordVuotaUsernameNull (0,096 s)

testMotoreRicercaROrderDESCNoRatingUserNull (0,088 s)

testDoRetrieveByEmailPresente (0,121 s)

testDoRetrieveByUsernameNonPresente (0,093 s)

testDoUpdateImageNullUserVuoto (0,102 s)

testManageBanUsernameVuotaDataNull (0,065 s)

testDoRetrieveByUsernameVuoto (0,076 s)

Failure Trace

```
org.h2.jdbc.JdbcSQLException: Function "AES_DECRYPT" not found; SQL statement:
SELECT Username, Nome, Cognome, Img, Email, Pass, DataNascita, Coin, Ban, Denominazione, DipName, AES_DECRYPT(Pass, 'despacito') as Password, Ruolo FROM Utente WHERE Email
at org.h2.message.DbException.getJdbcSQLException(DbException.java:651)
at org.h2.message.DbException.getJdbcSQLException(DbException.java:496)
at org.h2.message.DbException.get(DbException.java:227)
at org.h2.message.DbException.get(DbException.java:203)
at org.h2.command.Parser.readFunction(Parser.java:4179)
at org.h2.command.Parser.readTerm(Parser.java:5521)
at org.h2.command.Parser.readFactor(Parser.java:3726)
at org.h2.command.Parser.readSum(Parser.java:3713)
at org.h2.command.Parser.readConcat(Parser.java:3678)
at org.h2.command.Parser.readCondition(Parser.java:3461)
at org.h2.command.Parser.readExpression(Parser.java:3381)
at org.h2.command.Parser.parseSelectExpressions(Parser.java:3196)
at org.h2.command.Parser.parseSelect(Parser.java:3213)
at org.h2.command.Parser.parseQuerySub(Parser.java:3092)
at org.h2.command.Parser.parseSelectUnion(Parser.java:2930)
at org.h2.command.Parser.parseQuery(Parser.java:2900)
at org.h2.command.Parser.parsePrepared(Parser.java:1101)
at org.h2.command.Parser.parse(Parser.java:1068)
at org.h2.command.Parser.parse(Parser.java:1037)
at org.h2.command.Parser.prepareCommand(Parser.java:965)
at org.h2.engine.SessionLocal.prepareLocal(SessionLocal.java:624)
at org.h2.engine.SessionLocal.prepareCommand(SessionLocal.java:562)
at org.h2.jdbc.JdbcConnection.prepareCommand(JdbcConnection.java:1111)
at org.h2.jdbc.JdbcPreparedStatement.<init>(JdbcPreparedStatement.java:92)
at org.h2.jdbc.JdbcConnection.prepareStatement(JdbcConnection.java:283)
at profilo.UserModelDS.checkLogin(UserModelDS.java:33)
```

Runs: 159/159 Errors: 5 Failures: 0

testGetValutazioneUsernameVuoto (0,113 s)

testManageBanDataValidi (0,118 s)

testMotoreRicercaROrderDESCRatingUserVuoto (0,128 s)

testDoUpdatePasswordNullUsernameNull (0,091 s)

testDoUpdateDepartmentNullUniNull (0,079 s)

testMotoreRicercaROrderDESCNoRatingUserVuoto (0,142 s)

testMotoreRicercaROrderASCRatingUserVuoto (0,133 s)

testDoUpdateDepartmentVuotoUniNullUserNotPresent (0,029 s)

testDoUpdatePasswordUsernameVuoto (0,065 s)

testDoUpdateCoinUsernameVuoto (0,080 s)

testDoUpdateDepartmentNullUserVuoto (0,076 s)

testMotoreRicercaROrderNVNoRatingUserNull (0,068 s)

testMotoreRicercaROrderEmptyNoRatingUserNull (0,068 s)

testDoUpdateImageUserNull (0,082 s)

testMotoreRicercaROrderEmptyRatingUserVuoto (0,054 s)

testManageBanUsernameVuotaDataValida (0,057 s)

testManageBanUsernameVuotaDataNonValida (0,082 s)

testDoUpdateDepartmentVuotoUniNullUserNull (0,089 s)

testMotoreRicercaROrderASCRatingUserNotPresent (0,134 s)

testDoUpdateDepartmentUserNotPresent (0,131 s)

testDoUpdateEmailNullUsernameNonPresente (0,080 s)

testDoUpdateEmailUsernameNull (0,059 s)

testMotoreRicercaROrderNVRating (0,106 s)

testDoUpdateDepartmentUniVuotaUserNotPresent (0,077 s)

testDoUpdateCoinDataValidi (0,104 s)

testDoUpdateDepartmentVuotoUserNotPresent (0,082 s)

testDoUpdatePasswordNullUsernameVuoto (0,060 s)

testDoUpdateDepartmentNullUniVuota (0,083 s)

testDoUpdateDepartmentNullUniNullUserNotPresent (0,081 s)

Failure Trace

Runs: 159/159Errors: 5Failures: 0

testManageBanUsernameNullDataNull (0,087 s)

testDoUpdateDepartmentNullUserNull (0,041 s)

testDoUpdateDepartmentNullUserNotPresent (0,048 s)

testDoUpdateDepartmentVuotoUniVuotaUserNull (0,055 s)

testCheckLoginPassNonCorretta (0,067 s)

testMotoreRicercaOrderASCRating (0,140 s)

testMotoreRicercaOrderNullRatingUserNull (0,194 s)

testDoSaveAlreadyExists (0,063 s)

testDoRetrieveByEmailNonPresente (0,073 s)

testDoUpdateDepartment (0,104 s)

testDoUpdateDepartmentUniVuotaUserNull (0,070 s)

testDoUpdateDepartmentVuota (0,058 s)

testMotoreRicercaOrderDESCNoRatingUserNotPresent (0,094 s)

testDoUpdatePasswordVuotaUsernameNonPresente (0,075 s)

testDoUpdateEmailNullUsernameNull (0,073 s)

testDoSaveNull (0,047 s)

testDoUpdatePassword (0,069 s)

testMotoreRicercaOrderASCRatingUserVuota (0,099 s)

testDoUpdateCoinUsernameNonPresente (0,069 s)

testGetValutazioneUsernamePresente (0,105 s)

testMotoreRicercaOrderNVNRatingUserNull (0,072 s)

testMotoreRicercaOrderNVNRatingUserNotPresent (0,076 s)

testDoUpdateDepartmentUniVuotaUserVuota (0,080 s)

testMotoreRicercaOrderNVNRatingUserVuota (0,081 s)

testDoUpdateEmailVuotaUsernameNonPresente (0,069 s)

testMotoreRicercaOrderEmptyNoRating (0,068 s)

testDoUpdateEmailNullUserNonPresente (0,067 s)

testCheckLoginUserNonPresentePassVuota (0,048 s)

Failure Trace

org.h2.jdbc.JdbcSQLException: Function "AES_DECRYPT" not found; SQL statement:
SELECT Username, Nome, Cognome, Img, Email, Pass, DataNascita, Coin, Ban, Denominazione, DipName, AES_DECRYPT(Pass, 'despacito') as Password, Ruolo FROM Utente WHERE Email
at org.h2.message.DbException.getJdbcSQLException(DbException.java:651)
at org.h2.message.DbException.get(DbException.java:496)
at org.h2.message.DbException.get(DbException.java:227)
at org.h2.message.DbException.get(DbException.java:203)
at org.h2.command.Parser.readFunction(Parser.java:4179)
at org.h2.command.Parser.readTerm(Parser.java:5521)
at org.h2.command.Parser.readFactor(Parser.java:3726)
at org.h2.command.Parser.readSum(Parser.java:3713)
at org.h2.command.Parser.readConcat(Parser.java:3678)
at org.h2.command.Parser.readCondition(Parser.java:3461)
at org.h2.command.Parser.readExpression(Parser.java:3381)
at org.h2.command.Parser.parseSelectExpressions(Parser.java:3196)
at org.h2.command.Parser.parseSelect(Parser.java:3213)
at org.h2.command.Parser.parseQuerySub(Parser.java:3092)
at org.h2.command.Parser.parseSelectUnion(Parser.java:2930)
at org.h2.command.Parser.parseQuery(Parser.java:2900)
at org.h2.command.Parser.parsePrepared(Parser.java:1101)
at org.h2.command.Parser.parse(Parser.java:1068)
at org.h2.command.Parser.parse(Parser.java:1037)
at org.h2.command.Parser.prepareCommand(Parser.java:965)
at org.h2.engine.SessionLocal.prepareLocal(SessionLocal.java:624)
at org.h2.engine.SessionLocal.prepareCommand(SessionLocal.java:562)
at org.h2.jdbc.JdbcConnection.prepareCommand(JdbcConnection.java:1111)
at org.h2.jdbc.JdbcPreparedStatement.<init>(JdbcPreparedStatement.java:92)
at org.h2.jdbc.JdbcConnection.prepareStatement(JdbcConnection.java:283)
at profilo.UserModelDS.checkLogin(UserModelDS.java:33)

Runs: 159/159Errors: 5Failures: 0

testDoUpdateDepartmentNullUniNullUserVuota (0,062 s)

testDoRetrieveByUsernamePresente (0,076 s)

testDoUpdateEmailVuota (0,068 s)

testDoUpdateCoinNegativ (0,054 s)

testDoUpdateDepartmentVuotoUniNull (0,069 s)

testGetRoleUsernameVuota (0,065 s)

testMotoreRicercaOrderNVNoRating (0,095 s)

testDoUpdateEmail (0,106 s)

testDoUpdateEmail (0,112 s)

testDoUpdateEmailVuotaUsernameNull (0,077 s)

testMotoreRicercaOrderDESCRatingUserNotPresent (0,094 s)

testManageBanUsernameNullDataValida (0,063 s)

testDoUpdateCoinUsernameVuotaCoinNegativ (0,070 s)

testMotoreRicercaOrderEmptyRating (0,048 s)

testMotoreRicercaOrderNVRatingUserVuota (0,100 s)

testMotoreRicercaOrderASCNoRatingUserNull (0,044 s)

testDoUpdatePasswordNullUsernameNonPresente (0,038 s)

testDoRetrieveByUsernameNull (0,064 s)

testGetRoleUsernamePresente (0,064 s)

testCheckLoginUserNonPresentePassNull (0,065 s)

testDoSave (0,043 s)

testDoUpdateDepartmentNullUniVuotaUserVuota (0,027 s)

testDoUpdateEmailNull (0,045 s)

testGetRoleUsernameNull (0,066 s)

testDoUpdateDepartmentVuotoUniVuotaUserVuota (0,042 s)

testMotoreRicercaOrderNullNoRatingUserVuota (0,026 s)

testCheckLoginUserNullPassNull (0,029 s)

testGetValutazioneUsernameNonPresente (0,048 s)

testDoUpdateEmailNullUsernameVuota (0,042 s)

Failure Trace

org.h2.jdbc.JdbcSQLException: Function "AES_ENCRYPT" not found; SQL statement:
INSERT INTO Utente (Username, Nome, Cognome, Email, Pass, DataNascita, Coin, Denominazione, DipName, Ban, Ruolo) VALUES (?, ?, ?, ?, AES_ENCRYPT(?, 'despacito'), ?, ?, ?, ?, ?)
at org.h2.message.DbException.getJdbcSQLException(DbException.java:496)
at org.h2.message.DbException.get(DbException.java:227)
at org.h2.message.DbException.get(DbException.java:203)
at org.h2.command.Parser.readFunction(Parser.java:4179)
at org.h2.command.Parser.readTerm(Parser.java:5521)
at org.h2.command.Parser.readFactor(Parser.java:3726)
at org.h2.command.Parser.readSum(Parser.java:3713)
at org.h2.command.Parser.readConcat(Parser.java:3678)
at org.h2.command.Parser.readCondition(Parser.java:3461)
at org.h2.command.Parser.readExpression(Parser.java:3381)
at org.h2.command.Parser.readExpressionOrDefault(Parser.java:3367)
at org.h2.command.Parser.parseValuesForCommand(Parser.java:2112)
at org.h2.command.Parser.parseInsert(Parser.java:1983)
at org.h2.command.Parser.parsePrepared(Parser.java:1191)
at org.h2.command.Parser.parse(Parser.java:1068)
at org.h2.command.Parser.parse(Parser.java:1037)
at org.h2.command.Parser.prepareCommand(Parser.java:965)
at org.h2.engine.SessionLocal.prepareLocal(SessionLocal.java:624)
at org.h2.engine.SessionLocal.prepareCommand(SessionLocal.java:562)
at org.h2.jdbc.JdbcConnection.prepareCommand(JdbcConnection.java:1111)
at org.h2.jdbc.JdbcPreparedStatement.<init>(JdbcPreparedStatement.java:92)
at org.h2.jdbc.JdbcConnection.prepareStatement(JdbcConnection.java:283)
at profilo.UserModelDS.doSave(UserModelDS.java:340)
at profilo.UserModelDSTest.testDoSave(UserModelDSTest.java:1138)

testMotoreRicercaOrderNullNoRating (0,063 s)

testDoUpdateDepartmentVuotoUniVuotaUserNotPresent (0,036 s)

testDoUpdatePasswordUsernameNull (0,040 s)

testManageBanUsernameNonPresenteDataNull (0,038 s)

testMotoreRicercaOrderNullNoRatingUserNotPresent (0,063 s)

testDoUpdateDepartmentVuotoUniVuota (0,061 s)

testMotoreRicercaOrderNullNoRatingUserNull (0,047 s)

testDoUpdateDepartmentVuotaUserNull (0,030 s)

testMotoreRicercaOrderEmptyNoRatingUserNotPresent (0,026 s)

testDoUpdateCoinUsernameNull (0,048 s)

testDoRetrieveUsersNonPresenti (0,062 s)

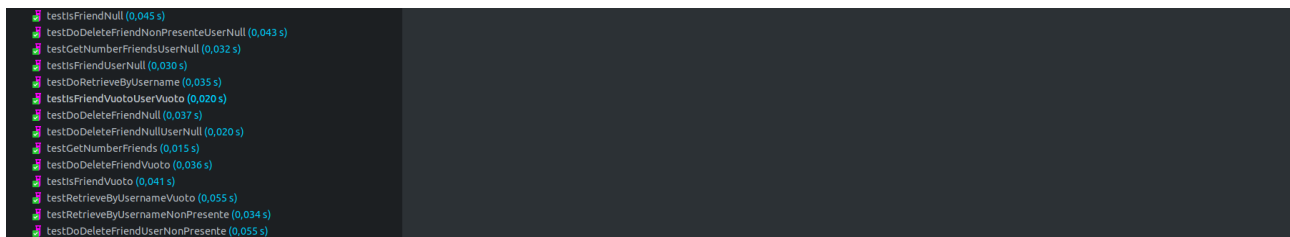
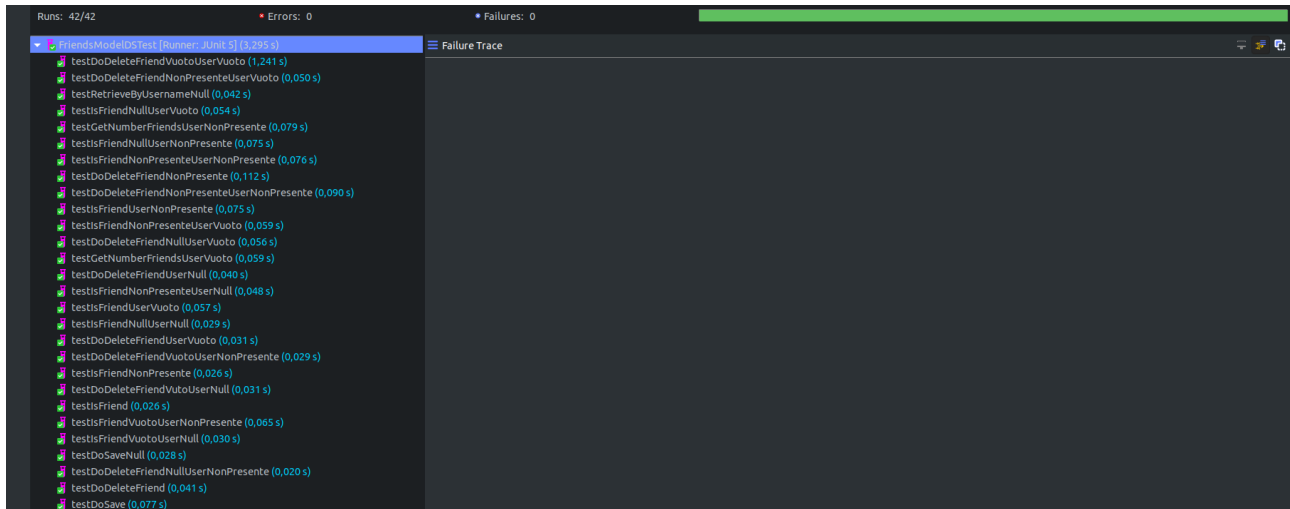
testCheckLoginPassVuota (0,044 s)

testDoUpdateCoinUsernameNullCoinNegativ (0,032 s)

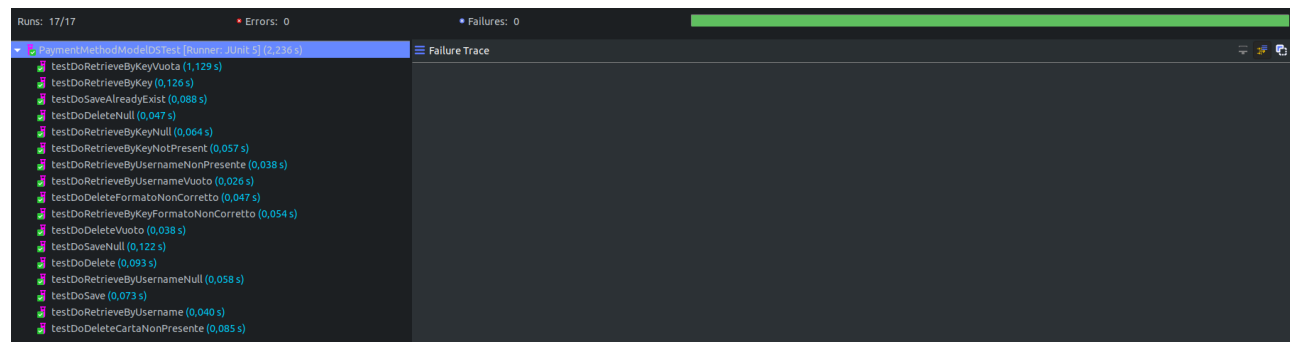
testMotoreRicercaOrderASCRatingUserNull (0,045 s)

testManageBanUsernameNonPresenteDataNonValida (0,065 s)

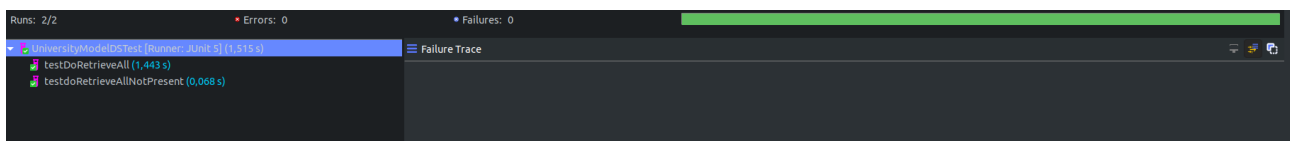
2. Friends:



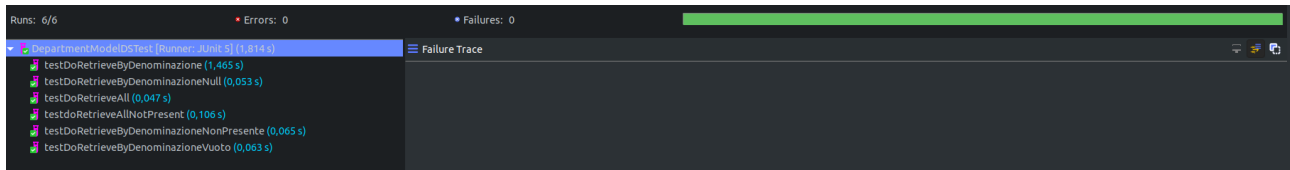
3. PaymentMethod:



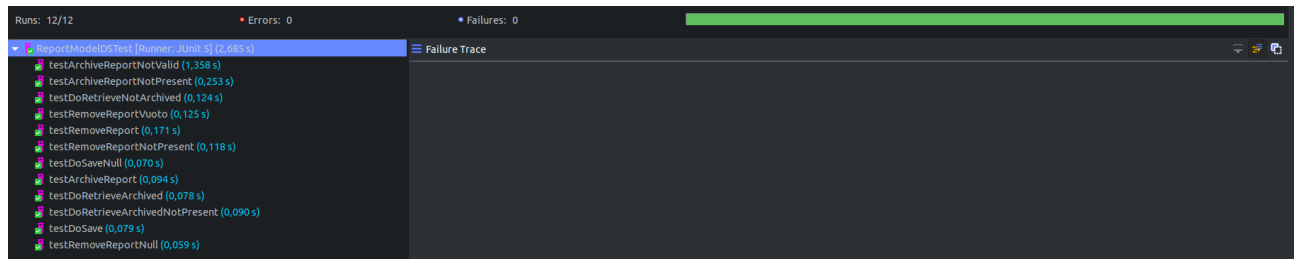
4. University:



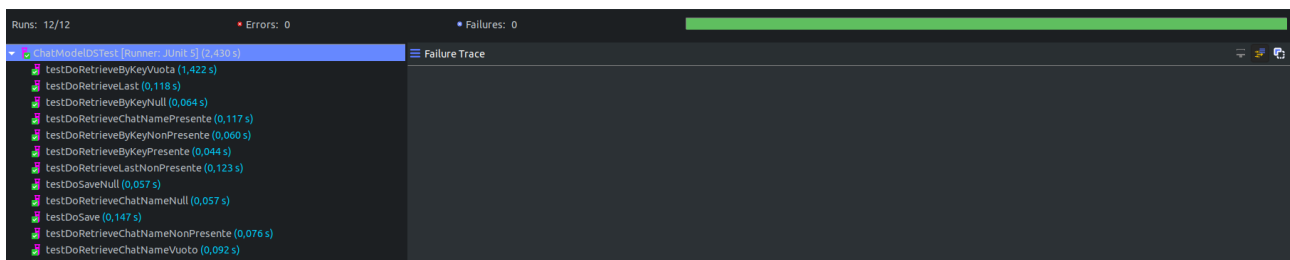
5. Department:



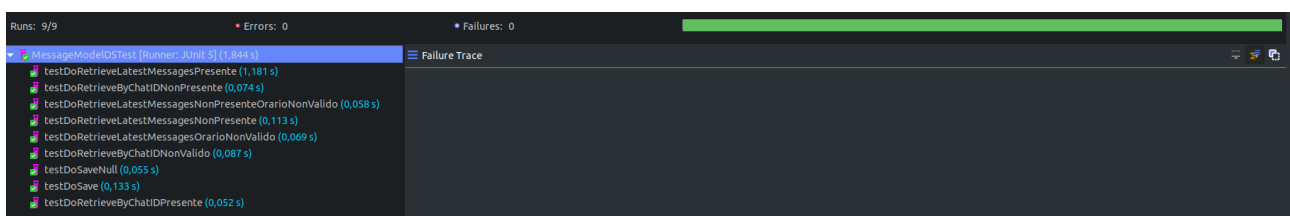
6. Report:



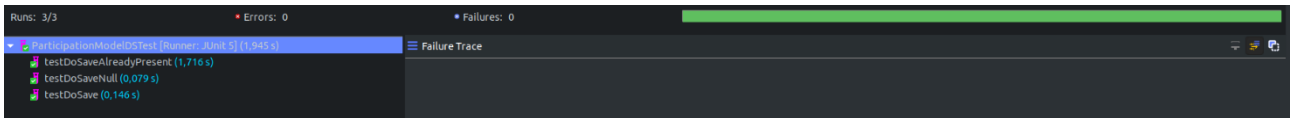
7. Chat:



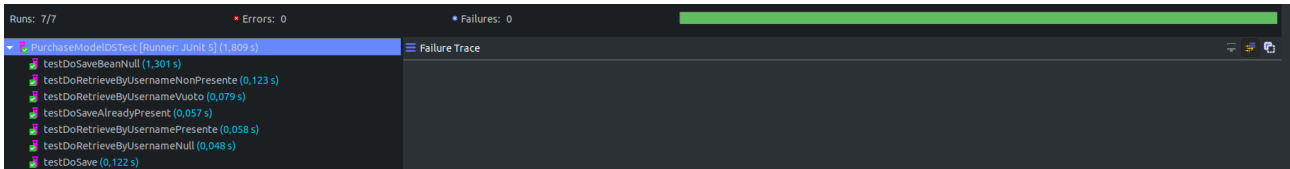
8. Message:



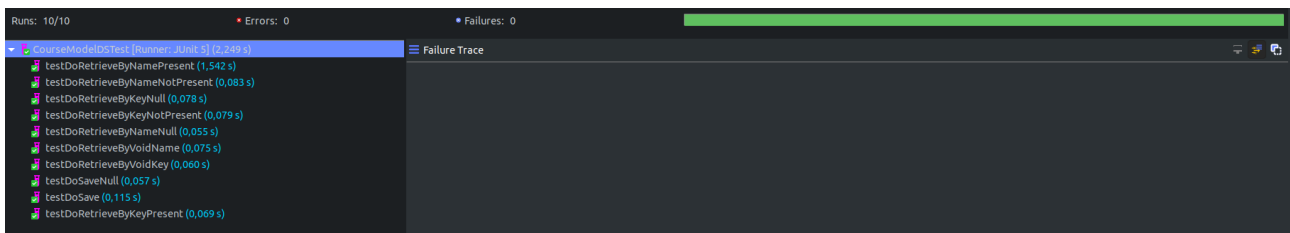
9. Partecipazione:



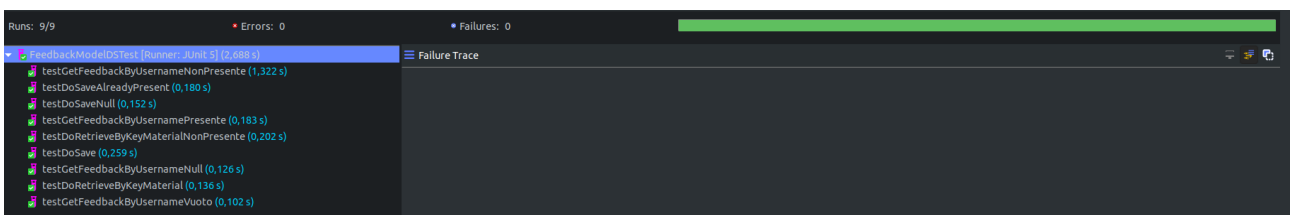
10. Purchase:



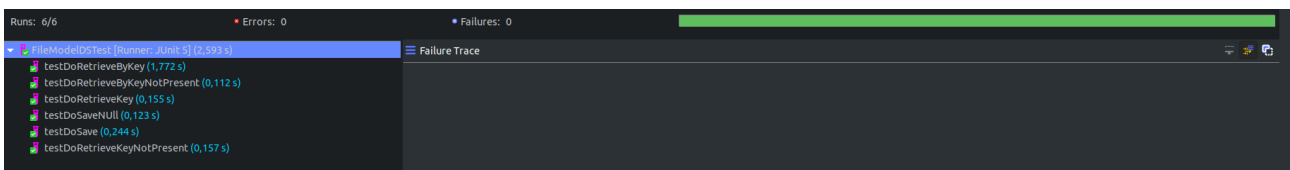
11. Course:



12. Feedback:



13. File:



14.Material:

```
Runs: 71/71      Errors: 0      Failures: 0

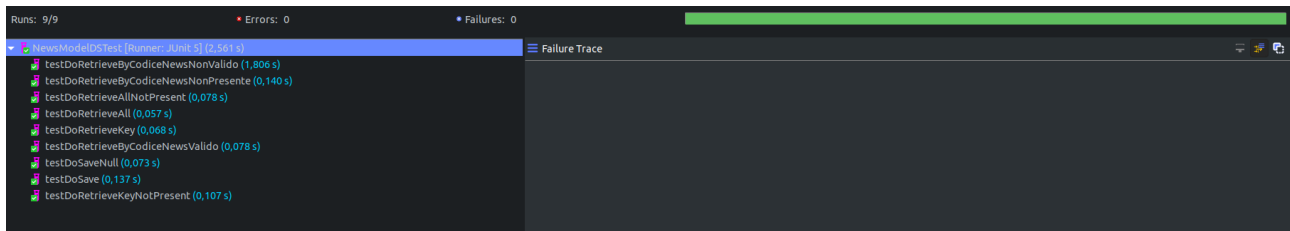
MaterialModeloSTest [Runner:JUnit5] (0.445 s)
  testDoRetrieveByOrderDateTableNotVoid (2.002 s)
  testRetrieveByParametersStrNullRatingVoidRatingPresent (0.263 s)
  testDoRetrieveByStringPresent (0.226 s)
  testGetQuantitaMaterialeCondivisoUsernamePresent (0.177 s)
  testRetrieveByParametersStrPresentRatingVoidRatingPresent (0.159 s)
  testRetrieveByParametersStrNotPresentRatingASCRatingPresent (0.153 s)
  testRetrieveByParametersStrVoidRatingNoValueRatingNotPresent (0.145 s)
  testRetrieveByParametersStrVoidRatingNullRatingNotPresent (0.139 s)
  testSetPriceCodMaterialeNonPresentePrezzoNonValido (0.133 s)
  testDoRetrieveFeedback (0.158 s)
  testRetrieveByParametersStrNullRatingASCRatingPresent (0.149 s)
  testRetrieveByParametersStrNotPresentRatingVoidRatingNotPresent (0.123 s)
  testRetrieveByParametersStrPresentRatingVoidRatingNotPresent (0.133 s)
  testDoDeleteCodiceMaterialePresent (0.364 s)
  testDoRetrieveByKeyNull (0.123 s)
  testRetrieveByParametersStrVoidRatingNullRatingPresent (0.126 s)
  testRetrieveByParametersStrNullRatingVoidRatingNotPresent (0.151 s)
  testDoRetrieveFeedbackMaterialNotPresent (0.105 s)
  testRetrieveByParametersStrNotPresentRatingNullRatingPresent (0.108 s)
  testDoRetrieveByKeyNotPresent (0.146 s)
  testRetrieveByParametersStrPresentRatingASCRatingPresent (0.149 s)
  testRetrieveByParametersStrVoidRatingDESCRatingNotPresent (0.117 s)
  testRetrieveByParametersStrVoidRatingVoidRatingPresent (0.091 s)
  testSetPriceCodMaterialePresentePrezzoValido (0.164 s)
  testDoRetrieveByUsernamePresent (0.143 s)
  testRetrieveByParametersStrNullRatingNoValueRatingPresent (0.093 s)
  testRetrieveByParametersStrPresentRatingASCRatingNotPresent (0.125 s)
  testRetrieveByParametersStrPresentRatingNoValueRatingNotPresent (0.117 s)
```

```
Runs: 71/71      Errors: 0      Failures: 0

  testRetrieveByParametersStrNotPresentRatingVoidRatingPresent (0.076 s)
  testSetPriceCodMaterialeNonPresentePrezzoValido (0.120 s)
  testDoRetrieveByOrderDateTableVoid (0.099 s)
  testDoRetrieveByStringNull (0.089 s)
  testRetrieveByParametersStrNullRatingDESCRatingPresent (0.073 s)
  testNotValidated (0.111 s)
  testRetrieveByParametersStrNotPresentRatingNullRatingNotPresent (0.065 s)
  testRetrieveByParametersStrPresentRatingNullRatingNotPresent (0.076 s)
  testGetQuantitaMaterialeCondivisoUsernameNotPresent (0.067 s)
  testRetrieveByParametersStrPresentRatingDESCRatingPresent (0.099 s)
  testDoRetrieveByVoidKey (0.058 s)
  testRetrieveByParametersStrNotPresentRatingNoValueRatingNotPresent (0.085 s)
  testRetrieveByParametersStrNullRatingNoValueRatingNotPresent (0.042 s)
  testDoSaveNull (0.039 s)
  testSetPriceCodMaterialePresentePrezzoNonValido (0.047 s)
  testRetrieveByParametersStrNotPresentRatingASCRatingNotPresent (0.064 s)
  testGetQuantitaMaterialeCondivisoVoidUsername (0.057 s)
  testRetrieveByParametersStrNullRatingNullRatingNotPresent (0.065 s)
  testDoRetrieveFeedbackCodeMaterialNotValid (0.053 s)
  testDoRetrieveByUsernameNotPresent (0.066 s)
  testRetrieveByParametersStrVoidRatingVoidRatingNotPresent (0.062 s)
  testGetQuantitaMaterialeCondivisoUsernameNull (0.077 s)
  testNotValidatedVoidTable (0.094 s)
  testRetrieveByParametersStrNotPresentRatingNoValueRatingPresent (0.055 s)
  testRetrieveByParametersStrPresentRatingNoValueRatingPresent (0.072 s)
  testDoRetrieveByStringNotPresent (0.057 s)
  testDoRetrieveByVoidUsername (0.026 s)
  testDoRetrieveByStringVuota (0.057 s)
  testRetrieveByParametersStrVoidRatingASCRatingPresent (0.078 s)
```

```
  testDoRetrieveByUsernameNull (0.069 s)
  testRetrieveByParametersStrNotPresentRatingDESCRatingNotPresent (0.076 s)
  testRetrieveByParametersStrVoidRatingNoValueRatingPresent (0.060 s)
  testRetrieveByParametersStrPresentRatingDESCRatingNotPresent (0.106 s)
  testRetrieveByParametersStrVoidRatingDESCRatingPresent (0.058 s)
  testRetrieveByParametersStrVoidRatingASCRatingNotPresent (0.083 s)
  testDoRetrieveByKeyPresent (0.060 s)
  testRetrieveByParametersStrNullRatingNullRatingPresent (0.063 s)
  testRetrieveByParametersStrNullRatingDESCRatingNotPresent (0.026 s)
  testRetrieveByParametersStrNotPresentRatingDESCRatingPresent (0.057 s)
  testDoDeleteCodiceMaterialeNotPresent (0.100 s)
  testRetrieveByParametersStrPresentRatingNullRatingPresent (0.062 s)
  testRetrieveByParametersStrNullRatingASCRatingNotPresent (0.039 s)
  testDoSaveMaterialNotPresent (0.072 s)
```

15.News:



15.Content:

