

Università degli Studi di Salerno

Corso di Ingegneria del Software

**Project: PC Zone
System Design
Document
Versione 2.0**

PCZone
Pick Your Parts



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Partecipanti

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Revision History

Data	Versione	Descrizione	Autore
27/12/2022	1.0	Inizio stesura documento, indice	Simone Scermino, Roberto Andrei Miron
30/12/2022	1.1	Effettuati test di unità	Simone Scermino, Roberto Andrei Miron
02/01/2023	1.2	Effettuati test di integrazione	Simone Scermino, Roberto Andrei Miron
05/01/2023	2.0	Effettuati test di sistema	Simone Scermino, Roberto Andrei Miron

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1. Introduction

Nel presente documento verranno riportati i risultati dell'esecuzione delle varie fasi di testing; si è confrontato il comportamento atteso con il comportamento osservato, riportando eventuali anomalie. Nel caso di differenza tra i due comportamenti avremo un "Failed", in caso contrario avremo un "Passed".

In particolare:

- nel test di unità ci si è concentrati nel testare in modo isolato i DAO e le Servlet, tramite l'utilizzo di JUnit e di Mockito;
- nel test di integrazione si è osservato il comportamento delle Servlet senza l'uso di DAO mock, ma adattandoli ad un utilizzo in un database inline realizzato con H2;
- nel test di sistema si è osservato il comportamento del sistema sotto vari input, così da testare nel complesso se le funzionalità fossero prive o meno (per quanto possibile) di faults.

2. Test di unità

Testing DAO

Runs: 49/49 Errors: 0 Failures: 0

UserModelDMTest [Runner: JUnit 5] (1,659 s)

- testDoRetrieveByKey() (0,340 s)
- testDoRetrieveAll() (0,069 s)
- testDoRetrieveByCond() (0,051 s)
- testDoUpdatePassword() (0,975 s)
- testDoDelete() (0,096 s)
- testDoUpdate() (0,074 s)
- testDoSave() (0,050 s)

ReviewModelDMTest [Runner: JUnit 5] (0,241 s)

- testDoRetrieveByKey() (0,044 s)
- testDoRetrieveByCond() (0,041 s)
- testDoDelete() (0,043 s)
- testDoSave() (0,111 s)

GenereModelDMTest [Runner: JUnit 5] (0,152 s)

- testDoRetrieveAll() (0,036 s)
- testDoDelete() (0,029 s)
- testDoSave() (0,086 s)

GuidaModelDMTest [Runner: JUnit 5] (0,298 s)

- testDoRetrieveByKey() (0,035 s)
- testDoRetrieveAll() (0,040 s)
- testDoRetrieveByTitolo() (0,031 s)
- testDoDelete() (0,029 s)
- testDoSave() (0,100 s)
- testDoRetrieveSuggerisceByCond() (0,029 s)
- testDoSaveSuggerisce() (0,033 s)

WishlistModelDMTest [Runner: JUnit 5] (0,319 s)

- testDoRetrieveByKeyIDWish() (0,033 s)
- testDoDeleteIDWishIDComp() (0,027 s)
- testDoRetrieveByKeyUser() (0,026 s)
- testDoDeleteID() (0,029 s)
- testDoRetrieveAll() (0,026 s)
- testDoDeleteUsername() (0,030 s)
- testDoSave() (0,088 s)
- testDoSave2() (0,031 s)
- testDoRetrieveByKeyIDWishIDComp() (0,026 s)

ComponenteModelDMTest [Runner: JUnit 5] (0,315 s)

- testDoRetrieveByKey() (0,033 s)
- testDoRetrieveAll() (0,034 s)
- testDoRetrieveByCond() (0,025 s)
- testDoRetrieveByName() (0,026 s)
- testDoUpdateComponenteBean() (0,100 s)
- testDoDelete() (0,029 s)
- testDoRetrieveBySearchTerm() (0,029 s)
- testDoSave() (0,038 s)

ConfigurazioneModelDMTest [Runner: JUnit 5] (0,200 s)


- testDoRetrieveByKey() (0,028 s)
- testDoRetrieveAll() (0,025 s)
- testDoRetrieveByCond() (0,025 s)
- testDoDelete() (0,028 s)
- testDoSave() (0,092 s)


InclusoModelDMTest [Runner: JUnit 5] (0,200 s)



- testDoRetrieveByKey() (0,028 s)
- testDoRetrieveByKeyNick() (0,024 s)
- testDoRetrieveAll() (0,024 s)
- testDoRetrieveByCond() (0,023 s)
- testDoDelete() (0,022 s)
- testDoSave() (0,078 s)

Testing Servlet


Runs: 2/2 ❌ Errors: 0 ❌ Failures: 0






▼  CambioInformazioniTest [Runner: JUnit 5] (0,729 s)

-  CambioInfo_Errato() (0,669 s)
-  CambioInfo_Giusto() (0,057 s)


Runs: 2/2 ❌ Errors: 0 ❌ Failures: 0






▼  CambioPasswordTest [Runner: JUnit 5] (0,713 s)

-  CambioPass_Errato() (0,644 s)
-  CambioPass_Giusto() (0,066 s)


Runs: 2/2 ❌ Errors: 0 ❌ Failures: 0







▼  effettuaOrdineTest [Runner: JUnit 5] (0,896 s)

-  EffettuaOrdine_Errato() (0,770 s)
-  EffettuaOrdine_Giusto() (0,123 s)


Runs: 3/3 ❌ Errors: 0 ❌ Failures: 0





▼  LoginTest [Runner: JUnit 5] (0,753 s)

-  Login_Errato() (0,644 s)
-  Login_Giusto() (0,068 s)
-  Login_Giusto_Gestore() (0,037 s)


Runs: 1/1 ❌ Errors: 0 ❌ Failures: 0





▼  LogoutTest [Runner: JUnit 5] (0,441 s)


-  LogoutCorretto() (0,441 s)



Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0

▼  modifInformCompTest [Runner: JUnit 5] (0,704 s)


- ✓  ComponenteModificata() (0,641 s)
- ✓  ComponenteNonModificata() (0,060 s)



Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0

▼  modifInformGuidaTest [Runner: JUnit 5] (0,723 s)


- ✓  ModifGuida_Errato() (0,654 s)
- ✓  ModifGuida_Giusto() (0,066 s)



Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0

▼  regGuidaTest [Runner: JUnit 5] (0,717 s)


- ✓  RegGuida_Errato() (0,647 s)
- ✓  RegGuida_Giusto() (0,067 s)



Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0

▼  RegistrationAdminTest [Runner: JUnit 5] (0,723 s)


- ✓  RegistrazioneCorretta() (0,657 s)
- ✓  RegistrazioneErrata() (0,063 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0



▼  RegistrationTest [Runner: JUnit 5] (0,725 s)

- ✓  RegistrazioneCorretta() (0,657 s)
- ✓  RegistrazioneErrata() (0,065 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  regProdottoTest [Runner: JUnit 5] (0,749 s)

-  RegistrazioneGuidaErrata() (0,671 s)
-  RegistrazioneGuidaCorretta() (0,075 s)

Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0





▼  sceltaLoginTest [Runner: JUnit 5] (0,364 s)



-  LoginUtente() (0,360 s)
-  LoginAdmin() (0,003 s)

3. Test di integrazione


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  CambioInformazioniIntegrationTest [Runner: JUnit 5] (1,145 s)

-  CambioInfo_Errato() (1,002 s)
-  CambioInfo_Giusto() (0,142 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  CambioPasswordIntegrationTest [Runner: JUnit 5] (1,151 s)

-  CambioPass_Errato() (0,999 s)
-  CambioPass_Giusto() (0,150 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0







▼  effettuaOrdineIntegrationTest [Runner: JUnit 5] (1,280 s)

-  EffettuaOrdine_Errato() (1,055 s)
-  EffettuaOrdine_Giusto() (0,224 s)


Runs: 3/3 ✖ Errors: 0 ✖ Failures: 0






▼  LoginIntegrationTest [Runner: JUnit 5] (1,333 s)

-  Login_Errato() (1,079 s)
-  Login_Giusto() (0,163 s)
-  Login_Giusto_Gestore() (0,088 s)

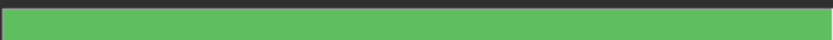
Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  modifInformComplIntegrationTest [Runner: JUnit 5] (1,121 s)

-  ComponenteModificata() (0,982 s)
-  ComponenteNonModificata() (0,138 s)

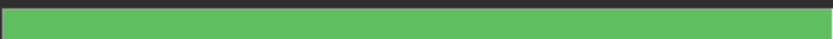
Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  modifInformGuidaIntegrationTest [Runner: JUnit 5] (1,144 s)

-  ModifGuida_Errato() (0,998 s)
-  ModifGuida_Giusto() (0,144 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0






▼  regGuidaIntegrationTest [Runner: JUnit 5] (1,131 s)



-  RegGuida_Errato() (0,983 s)
-  RegGuida_Giusto() (0,147 s)


Runs: 2/2 ✖ Errors: 0 ✖ Failures: 0







▼  RegistrationAdminIntegrationTest [Runner: JUnit 5] (1,171 s)


-  RegistrazioneCorretta() (1,022 s)
-  RegistrazioneErrata() (0,148 s)



Runs: 2/2  Errors: 0  Failures: 0

▼  RegistrationIntegrationTest [Runner: JUnit 5] (1,152 s)

-  RegistrazioneCorretta() (1,028 s)
-  RegistrazioneErrata() (0,123 s)

Runs: 2/2  Errors: 0  Failures: 0

▼  regProdottoIntegrationTest [Runner: JUnit 5] (1,198 s)

-  RegistrazioneGuidaErrata() (1,056 s)
-  RegistrazioneGuidaCorretta() (0,141 s)

4. Test di sistema

Project: PcZone*

Tests ▾

Search tests...

✓ IC_TC1*

✓ IC_TC2*

✓ IC_TC3*

✓ IC_TC4*

✓ IC_TC5*

✓ IC_TC6*

✓ IC_TC7*

✓ IG_TC1*

✓ IG_TC2*

✓ IG_TC3*

✓ LG_TC1*

✓ LG_TC2*

✓ LG_TC3*

✓ LG_TC4*

✓ LU_TC1

✓ LU_TC2

✓ LU_TC3

✓ MC_TC1*

✓ MC_TC2*

✓ MC_TC3*

✓ MC_TC4*

✓ MC_TC5*

✓ MC_TC6*

✓ MC_TC7*

✓ MG_TC1*

✓ MG_TC2*

✓ MG_TC3*

✓ RC_TC1*

✓ RC_TC2*

✓ RC_TC3*

✓ RG_TC1

✓ RG_TC2

✓ RG_TC3

✓ RG_TC4

✓ RG_TC5

✓ RG_TC6

✓ RG_TC7

✓ RG_TC8

✓ RG_TC9

✓ RU_TC1

✓ RU_TC2

✓ RU_TC3

✓ RU_TC4

✓ RU_TC5

✓ RU_TC6

✓ RU_TC7

✓ RU_TC8

✓ RU_TC9

✓ RU_TC10

✓ SB_TC1

✓ SB_TC2

✓ SB_TC3

Questi sono alcuni dei test di sistema fatti con Selenium.

Nella cartella SeleniumTests è stato incluso il .idea dei test fatti.

Running 'IC_TC1'

1. open on /ProgettoIS_PCZoneLocal/regProdotto.jsp OK
 2. setWindowSize on 1920x753 OK
 3. click on id=nome OK
 4. type on id=nome with value 3070 OK
 5. click on id=prezzo OK
 6. type on id=prezzo with value 989.99 OK
 7. click on id=descrizione OK
 8. type on id=descrizione with value La più recente GPU di NVIDIA. OK
 9. click on id=immagine OK
 10. type on id=immagine with value <https://www.image.com/rtx4070.jpg> OK
 11. click on id=acquisto OK
 12. type on id=acquisto with value <https://venditore.com/4070Ti/asdada2> OK
 13. click on name=tipo OK
 14. select on name=tipo with value label=GPU OK
 15. click on id=data OK
 16. type on id=data with value 2023-01-18 OK
 17. click on css=.btn OK
 18. assertAlert on Titolo non valido! Deve contenere tra 10 e 70 caratteri. OK
- 'IC_TC1' completed successfully**

Running 'IC_TC2'

1. open on /Progetti/S_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. type on id=nome with value NVIDIA RTX 4070 Ti OK
5. click on id=descrizione OK
6. type on id=descrizione with value gpu OK
7. click on css=fieldset OK
8. click on id=prezzo OK
9. type on id=prezzo with value 989.99 OK
10. click on id=immagine OK
11. type on id=immagine with value https://www.image.com/rtx4070.jpg OK
12. click on id=acquisto OK
13. type on id=acquisto with value https://venditore.com/4070Ti/asdada2 OK
14. click on name=tipo OK
15. select on name=tipo with value label=GPU OK
16. click on id=data OK
17. type on id=data with value 2023-01-10 OK
18. click on css=.btn OK
19. assertAlert on Descrizione non valida! Deve contenere tra 10 e 750 caratteri. OK

'IC_TC2' completed successfully

Running 'IC_TC3'

1. open on /Progetti/S_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. click on id=nome OK
5. type on id=nome with value NVIDIA RTX 4070 Ti OK
6. click on id=prezzo OK
7. click on id=descrizione OK
8. type on id=descrizione with value La più recente GPU rilasciata da NVIDIA.\n\n OK
9. click on id=prezzo OK
10. click on id=prezzo OK
11. type on id=prezzo with value 989.99 OK
12. click on name=tipo OK
13. select on name=tipo with value label=CPU OK
14. click on id=data OK
15. type on id=data with value 2023-01-31 OK
16. click on id=acquisto OK
17. type on id=acquisto with value https://venditore.com/4070Ti/asdada2 OK
18. click on css=.btn OK

'IC_TC3' completed successfully

Running 'IC_TC4'

1. open on /ProgettoloS_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. type on id=nome with value NVIDIA RTX 4070 Ti OK
5. click on id=immagine OK
6. type on id=immagine with value <https://www.image.com/rtx4070.jpg> OK
7. click on id=prezzo OK
8. click on id=acquisto OK
9. type on id=acquisto with value <https://venditore.com/4070Ti/asdada2> OK
10. click on name=tipo OK
11. select on name=tipo with value label=CPU OK
12. click on id=data OK
13. type on id=data with value 2023-01-17 OK
14. click on css=.btn OK
15. click on id=descrizione OK
16. type on id=descrizione with value La più recente GPU rilasciata da NVIDIA. OK

'IC_TC4' completed successfully

Running 'IC_TC5'

1. open on /ProgettoloS_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. type on id=nome with value NVIDIA RTX 4070 Ti OK
5. click on id=prezzo OK
6. type on id=prezzo with value 989.99 OK
7. click on id=descrizione OK
8. type on id=descrizione with value La più recente GPU rilasciata da NVIDIA.\n\n OK
9. click on id=immagine OK
10. type on id=immagine with value <https://www.image.com/rtx4070.jpg> OK
11. click on name=tipo OK
12. select on name=tipo with value label=GPU OK
13. click on id=data OK
14. click on id=data OK
15. type on id=data with value 2023-01-03 OK
16. click on css=.btn OK

'IC_TC5' completed successfully

Running 'IC_TC6'

1. open on /ProgettoIS_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. type on id=nome with value NVIDIA RTX 4070 Ti OK
5. click on id=prezzo OK
6. type on id=prezzo with value 989.99 OK
7. click on id=descrizione OK
8. type on id=descrizione with value La più recente GPU rilasciata da NVIDIA.\n\n OK
9. click on id=immagine OK
10. type on id=immagine with value https://www.image.com/rtx4070.jpg OK
11. click on id=acquisto OK
12. type on id=acquisto with value https://venditore.com/4070Ti/asdada2 OK
13. click on name=tipo OK
14. select on name=tipo with value label=CPU OK
15. click on css=.btn OK

'IC_TC6' completed successfully

Running 'IC_TC7'

1. open on /ProgettoIS_PCZoneLocal/regProdotto.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=nome OK
4. type on id=nome with value NVIDIA RTX 4070 Ti OK
5. click on id=descrizione OK
6. type on id=descrizione with value La più recente GPU rilasciata da NVIDIA. OK
7. click on id=immagine OK
8. type on id=immagine with value https://www.image.com/rtx4070.jpg OK
9. click on id=prezzo OK
10. type on id=prezzo with value 989.99 OK
11. click on id=acquisto OK
12. type on id=acquisto with value https://venditore.com/4070Ti/asdada2 OK
13. click on id=data OK
14. type on id=data with value 2023-02-06 OK
15. click on name=tipo OK
16. select on name=tipo with value label=GPU OK
17. click on css=.btn OK

'IC_TC7' completed successfully

Running 'LU_TC1'

1. open on /ProgettoIS_PCZoneLocal/login.jsp OK
2. setWindowSize on 1920x753 OK
3. click on id=email OK
4. type on id=email with value lore4@gmail.com OK
5. click on id=password OK
6. type on id=password with value Lorenzo2145 OK
7. click on css=.btn OK
8. click on linkText=Riprova OK

'LU_TC1' completed successfully