



Hilo

Everyone wanna be a Hilo

Test Case Summary Report

Riferimento	
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Approvato da	



Revision History

DATA	Versione	Cambiamenti	Autori
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1. Introduzione

Il Test Summary Report è un documento contenente i risultati dell'esecuzione dei test case di unità delle varie componenti della piattaforma Hilo.

Le classi dei package model e controller sono testate con l'utilizzo di JUnit (nel controller si utilizza anche Mockito per alcune classi); successivamente, viene effettuato il testing di sistema con Katalon.

1.1. Scopo

Lo scopo di questo documento è quello di fornire una presentazione dei casi di test di unità per la piattaforma Hilo. I vari membri del team si sono impegnati nel verificare che le singole unità (classi e metodi) abbiano il comportamento atteso.

1.2. Riferimenti

- NC_04_TCD_ver.0.1



2. Risultati con Junit per il Model

Di seguito sono riportati i risultati dei test di unità per le classi del package model.

2.1. Features testate

Con testing di unità per il package model si vuole effettuare il testing delle singole classi inserite e di seguito vengono riportate le classi testate:

- EffettuaAs;
- EffettuaAsManager;
- EffettuaP;
- EffettuaPManager;
- EmbeddedEffettuaP;
- Swab;
- SwabManager;
- StatisticsManager;
- EmbeddedPagina;
- EmbeddedPaginaDiarioClinico;
- EmbeddedRadiografia;
- Pagina;
- PaginaDiarioClinico;
- PaginaDiarioClinicoManager;
- PaginaManager;
- Patient;
- PatientManager;
- Radiografia;
- RadiografiaManager;
- HealthWorker;
- HealthWorkerManager;
- Afferire;
- AfferireManager;
- EmbeddedAfferire;
- Struttura;
- StrutturaManager;

2.2. Panoramica dei risultati del test delle classi

Di seguito sono elencati i report dell'esecuzione dei test



2.2.1. EffettuaAs

```
Run: TestEffettuaAs x
Tests passed: 1 of 1 test - 392 ms
Test Results 392 ms
JUnit 5 EffettuaAsTest 392 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
13:58:33.186 [main] DEBUG org.springframework.t
13:58:33.241 [main] DEBUG org.springframework.t
13:58:33.336 [main] DEBUG org.springframework.t
13:58:33.366 [main] INFO org.springframework.bo
13:58:33.376 [main] DEBUG org.springframework.t
13:58:33.377 [main] DEBUG org.springframework.t
13:58:33.378 [main] INFO org.springframework.te
```

2.2.2. EffettuaAsManager

```
Run: TestEffettuaAsManager x
Tests passed: 5 of 5 tests - 2 s 418 ms
Test Results 2 s 418 ms
JUnit 5 EffettuaAsManagerTest 2 s 418 ms
"C:\Program Files\Java\jdk-12.0.1\bin\ja
13:59:04.074 [main] DEBUG org.springfram
13:59:04.119 [main] DEBUG org.springfram
13:59:04.210 [main] DEBUG org.springfram
13:59:04.241 [main] INFO org.springframe
13:59:04.255 [main] DEBUG org.springfram
13:59:04.256 [main] DEBUG org.springfram
13:59:04.257 [main] INFO org.springframe
```

2.2.3. EffettuaP

```
Run: TestEffettuaP x
Tests passed: 1 of 1 test - 348 ms
Test Results 348 ms
JUnit 5 EffettuaPTest 348 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
14:00:16.832 [main] DEBUG org.springframework.te
14:00:16.875 [main] DEBUG org.springframework.te
14:00:16.971 [main] DEBUG org.springframework.te
14:00:17.006 [main] INFO org.springframework.bo
14:00:17.018 [main] DEBUG org.springframework.te
14:00:17.019 [main] DEBUG org.springframework.te
14:00:17.020 [main] INFO org.springframework.tes
```



2.2.4. EffettuaPManager

```
Run: TestEffettuaPManager x
Tests passed: 3 of 3 tests - 2 s 749 ms
Test Results 2 s 749 ms
  JUnit 5 EffettuaPManagerTest 2 s 749 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
14:00:44.001 [main] DEBUG org.springframework.test.co
14:00:44.055 [main] DEBUG org.springframework.test.co
14:00:44.148 [main] DEBUG org.springframework.test.co
14:00:44.180 [main] INFO org.springframework.boot.tes
14:00:44.193 [main] DEBUG org.springframework.test.co
14:00:44.195 [main] DEBUG org.springframework.test.co
14:00:44.195 [main] INFO org.springframework.test.con
```

2.2.5. EmbeddedEffettuaP

```
Run: TestEmbeddedEffettuaP x
Tests passed: 2 of 2 tests - 353 ms
Test Results 353 ms
  JUnit 5 EmbeddedEffettuaPTest 353 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
14:01:06.955 [main] DEBUG org.spring
14:01:07.006 [main] DEBUG org.spring
14:01:07.111 [main] DEBUG org.spring
14:01:07.145 [main] INFO org.springt
14:01:07.157 [main] DEBUG org.spring
14:01:07.159 [main] DEBUG org.spring
14:01:07.159 [main] INFO org.springt
```

2.2.6. Swab

```
Run: TestSwab x
Tests passed: 6 of 6 tests - 1 s 887 ms
Test Results 1 s 887 ms
  JUnit 5 SwabTest 1 s 887 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
14:01:31.859 [main] DEBUG org.springframework.test.context.Bootstrap
14:01:31.904 [main] DEBUG org.springframework.test.context.Bootstrap
14:01:32.024 [main] DEBUG org.springframework.test.context.Bootstrap
14:01:32.067 [main] INFO org.springframework.boot.test.context.Spring
14:01:32.088 [main] DEBUG org.springframework.test.context.support.Ab
14:01:32.091 [main] DEBUG org.springframework.test.context.support.Ab
14:01:32.092 [main] INFO org.springframework.test.context.support.Abs
```




2.2.7. SwabManager

```
Run: TestSwabManager x
Tests passed: 6 of 6 tests - 3 s 184 ms
Test Results 3 s 184 ms
  JUnit 5 SwabManagerTest 3 s 184 ms
    "C:\Program Files\Java\jdk-12.0.1\bin\java.e
    14:02:05.818 [main] DEBUG org.springframework
    14:02:05.862 [main] DEBUG org.springframework
    14:02:05.985 [main] DEBUG org.springframework
    14:02:06.034 [main] INFO org.springframework
    14:02:06.055 [main] DEBUG org.springframework
    14:02:06.057 [main] DEBUG org.springframework
    14:02:06.057 [main] INFO org.springframework
```

2.2.8. StatisticsManager

```
Run: TestStatisticsManager x
Tests passed: 1 of 1 test - 332 ms
Test Results 332 ms
  JUnit 5 TestStatisticsManager 332 ms
    13:57:16.815 [main] DEBUG org.springf
    13:57:16.853 [main] DEBUG org.springf
    13:57:16.959 [main] DEBUG org.springf
    13:57:16.990 [main] INFO org.springfr
    13:57:17.006 [main] DEBUG org.springf
    13:57:17.007 [main] DEBUG org.springf
    13:57:17.007 [main] INFO org.springfr
    13:57:17.009 [main] INFO org.springfr
```

2.2.9. EmbeddedPagina

```
Run: HiloApplication x TestEmbeddedPagina x
Tests passed: 1 of 1 test - 336 ms
Test Results 336 ms
  JUnit 5 EmbeddedPaginaTest 336 ms
    "C:\Program Files\Java\jdk-12.
    13:49:20.355 [main] DEBUG org.
    13:49:20.401 [main] DEBUG org.
    13:49:20.508 [main] DEBUG org.
    13:49:20.538 [main] INFO org.s
    13:49:20.549 [main] DEBUG org.
    13:49:20.551 [main] DEBUG org.
    13:49:20.551 [main] INFO org.s
```



2.2.10. EmbeddedPaginaDiarioClinico

```
Run: HiloApplication x TestEmbeddedPaginaDiarioClinico x
Tests passed: 1 of 1 test - 342 ms
Test Results 342 ms
  JUnit 5 EmbeddedPaginaDiarioClinico 342 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
13:50:22.449 [main] DEBUG org.springframework.test.context.Boot
13:50:22.495 [main] DEBUG org.springframework.test.context.Boot
13:50:22.593 [main] DEBUG org.springframework.test.context.Boot
13:50:22.646 [main] INFO org.springframework.boot.test.context.Boot
13:50:22.663 [main] DEBUG org.springframework.test.context.support
13:50:22.664 [main] DEBUG org.springframework.test.context.support
13:50:22.665 [main] INFO org.springframework.test.context.support
```

2.2.11. EmbeddedRadiografia

```
Run: HiloApplication x TestEmbeddedRadiografia x
Tests passed: 1 of 1 test - 355 ms
Test Results 355 ms
  JUnit 5 EmbeddedRadiografiaTest 355 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
13:51:02.728 [main] DEBUG org.springframework
13:51:02.775 [main] DEBUG org.springframework
13:51:02.895 [main] DEBUG org.springframework
13:51:02.954 [main] INFO org.springframework
13:51:02.983 [main] DEBUG org.springframework
13:51:02.986 [main] DEBUG org.springframework
13:51:02.987 [main] INFO org.springframework
```

2.2.12. Pagina

```
Run: HiloApplication x TestPagina x
Tests passed: 6 of 6 tests - 380 ms
Test Results 380 ms
  JUnit 5 PaginaTest 380 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe" ...
13:51:40.360 [main] DEBUG org.springframework
13:51:40.404 [main] DEBUG org.springframework
13:51:40.499 [main] DEBUG org.springframework
13:51:40.534 [main] INFO org.springframework
13:51:40.542 [main] DEBUG org.springframework
13:51:40.543 [main] DEBUG org.springframework
13:51:40.544 [main] INFO org.springframework
```




2.2.13. PaginaDiarioClinico

```
Run: HiloApplication x TestPaginaDiarioClinico x
Tests passed: 1 of 1 test - 367 ms
Test Results 367 ms
  JUnit 5 PaginaDiarioClinicoTest 367 ms
    13:52:12.453 [main] DEBUG org.springframework...
    13:52:12.504 [main] DEBUG org.springframework...
    13:52:12.610 [main] DEBUG org.springframework...
    13:52:12.642 [main] INFO org.springframework...
    13:52:12.654 [main] DEBUG org.springframework...
    13:52:12.655 [main] DEBUG org.springframework...
    13:52:12.656 [main] INFO org.springframework...
```

2.2.14. PaginaDiarioClinicoManager

```
Run: HiloApplication x TestPaginaDiarioClinicoManager x
Tests passed: 1 of 1 test - 1 s 382 ms
Test Results 1 s 382 ms
  JUnit 5 PaginaDiarioClinicoManager 1 s 382 ms
    13:53:21.833 [main] DEBUG org.springframework...
    13:53:21.870 [main] DEBUG org.springframework...
    13:53:21.962 [main] DEBUG org.springframework...
    13:53:21.986 [main] INFO org.springframework...
    13:53:21.995 [main] DEBUG org.springframework...
    13:53:21.997 [main] DEBUG org.springframework...
    13:53:21.997 [main] INFO org.springframework...
    13:53:21.998 [main] INFO org.springframework...
```

2.2.15. PaginaManager

```
Run: HiloApplication x TestPaginaManager x
Tests passed: 4 of 4 tests - 2 s 809 ms
Test Results 2 s 809 ms
  JUnit 5 PaginaManagerTest 2 s 809 ms
    13:53:57.772 [main] DEBUG org.springframework.test...
    13:53:57.824 [main] DEBUG org.springframework.test...
    13:53:57.939 [main] DEBUG org.springframework.test...
    13:53:57.975 [main] INFO org.springframework.boot...
    13:53:57.989 [main] DEBUG org.springframework.test...
    13:53:57.991 [main] DEBUG org.springframework.test...
    13:53:57.991 [main] INFO org.springframework.test...
    13:53:57.994 [main] INFO org.springframework.test...
```



2.2.16. Patient

```
Run: HiloApplication x TestPatient x
Tests passed: 10 of 10 tests – 364 ms
Test Results 364 ms
  JUnit 5 PatientTest 364 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
13:54:26.297 [main] DEBUG org.springframework
13:54:26.368 [main] DEBUG org.springframework
13:54:26.492 [main] DEBUG org.springframework
13:54:26.539 [main] INFO org.springframework
13:54:26.553 [main] DEBUG org.springframework
13:54:26.554 [main] DEBUG org.springframework
13:54:26.554 [main] INFO org.springframework
Tests passed: 10 (moments ago)
```

2.2.17. PatientManager

```
Run: TestPatientManager x
Tests passed: 9 of 9 tests – 3 s 920 ms
Test Results 3 s 920 ms
  JUnit 5 PatientManager 3 s 920 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
13:55:00.515 [main] DEBUG org.springframework
13:55:00.571 [main] DEBUG org.springframework
13:55:00.683 [main] DEBUG org.springframework
13:55:00.712 [main] INFO org.springframework
13:55:00.723 [main] DEBUG org.springframework
13:55:00.724 [main] DEBUG org.springframework
13:55:00.724 [main] INFO org.springframework
```

2.2.18. Radiografia

```
Run: TestRadiografia x
Tests passed: 1 of 1 test – 340 ms
Test Results 340 ms
  JUnit 5 RadiografiaTest 340 ms
"C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
13:55:31.195 [main] DEBUG org.springframework
13:55:31.248 [main] DEBUG org.springframework
13:55:31.353 [main] DEBUG org.springframework
13:55:31.386 [main] INFO org.springframework
13:55:31.399 [main] DEBUG org.springframework
13:55:31.402 [main] DEBUG org.springframework
13:55:31.403 [main] INFO org.springframework
```



2.2.19. RadiografiaManager

```
Run: TestRadiografiaManager x
Tests passed: 2 of 2 tests - 4 s 31 ms

Test Results 4 s 31 ms
  JUnit 5 RadiografiaManagerTest 4 s 31 ms
    13:55:57.026 [main] DEBUG org.springframework.test.con
    13:55:57.073 [main] DEBUG org.springframework.test.con
    13:55:57.168 [main] DEBUG org.springframework.test.con
    13:55:57.207 [main] INFO org.springframework.boot.test
    13:55:57.221 [main] DEBUG org.springframework.test.con
    13:55:57.223 [main] DEBUG org.springframework.test.con
    13:55:57.223 [main] INFO org.springframework.test.con
```

2.2.20. HealthWorker

```
Run: HiloApplication x, TestHealthWorker x
Tests passed: 1 of 1 test - 340 ms

Test Results 340 ms
  JUnit 5 HealthWorkerTest 340 ms
    13:47:42.907 [main] DEBUG org.springframework.test.cont
    13:47:42.944 [main] DEBUG org.springframework.test.cont
    13:47:43.045 [main] DEBUG org.springframework.test.cont
    13:47:43.081 [main] INFO org.springframework.boot.test.
    13:47:43.095 [main] DEBUG org.springframework.test.cont
    13:47:43.098 [main] DEBUG org.springframework.test.cont
    13:47:43.099 [main] INFO org.springframework.test.conte
```

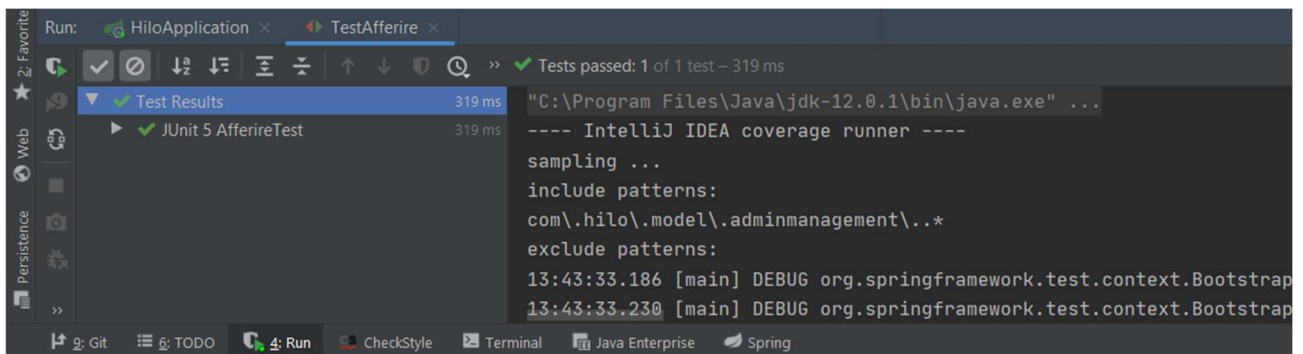
2.2.21. HealthWorkerManager

```
Run: HiloApplication x, TestHealthWorkerManager x
Tests passed: 2 of 2 tests - 2 s 496 ms

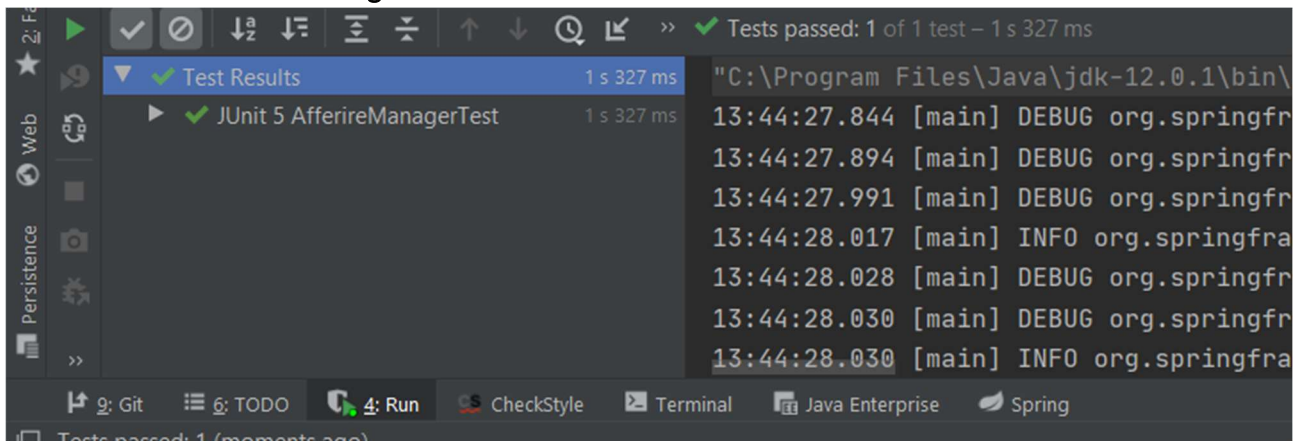
Test Results 2 s 496 ms
  JUnit 5 HealthWorkerManagerTest 2 s 496 ms
    13:48:14.621 [main] DEBUG org.springf
    13:48:14.663 [main] DEBUG org.springf
    13:48:14.771 [main] DEBUG org.springf
    13:48:14.809 [main] INFO org.springfr
    13:48:14.828 [main] DEBUG org.springf
    13:48:14.830 [main] DEBUG org.springf
    13:48:14.831 [main] INFO org.springfr
```



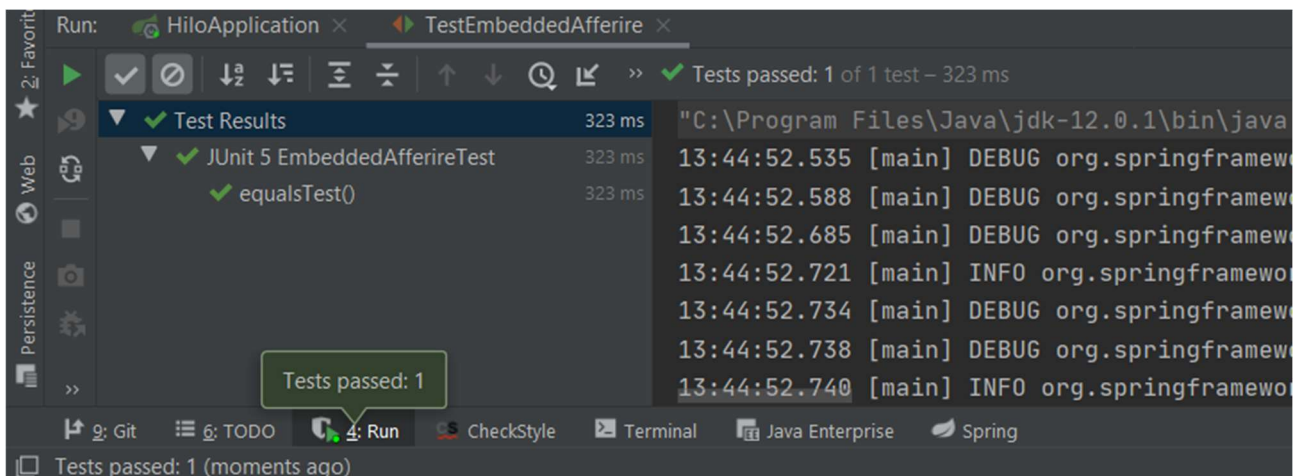

2.2.22. Afferire



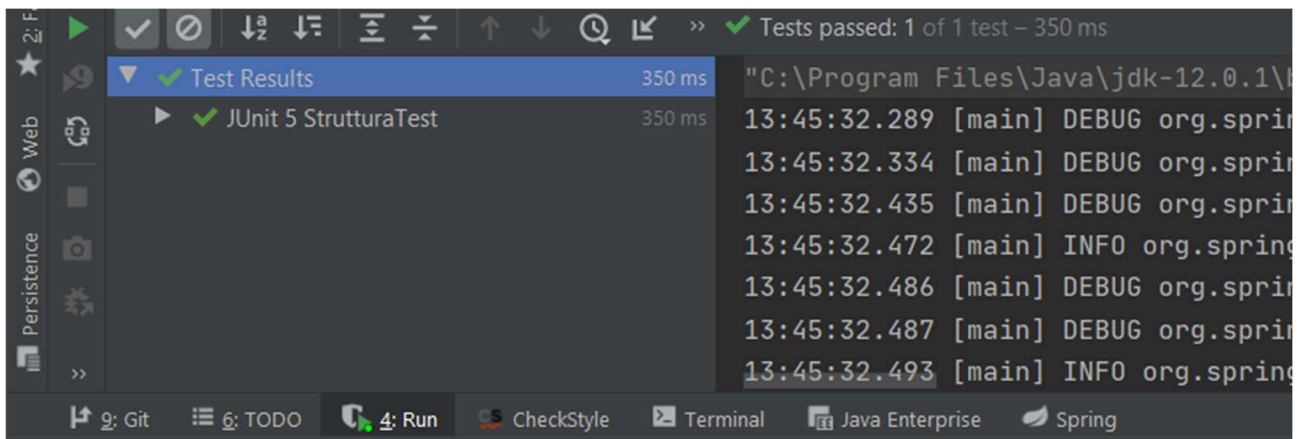
2.2.23. AfferireManager



2.2.24. EmbeddedAfferire



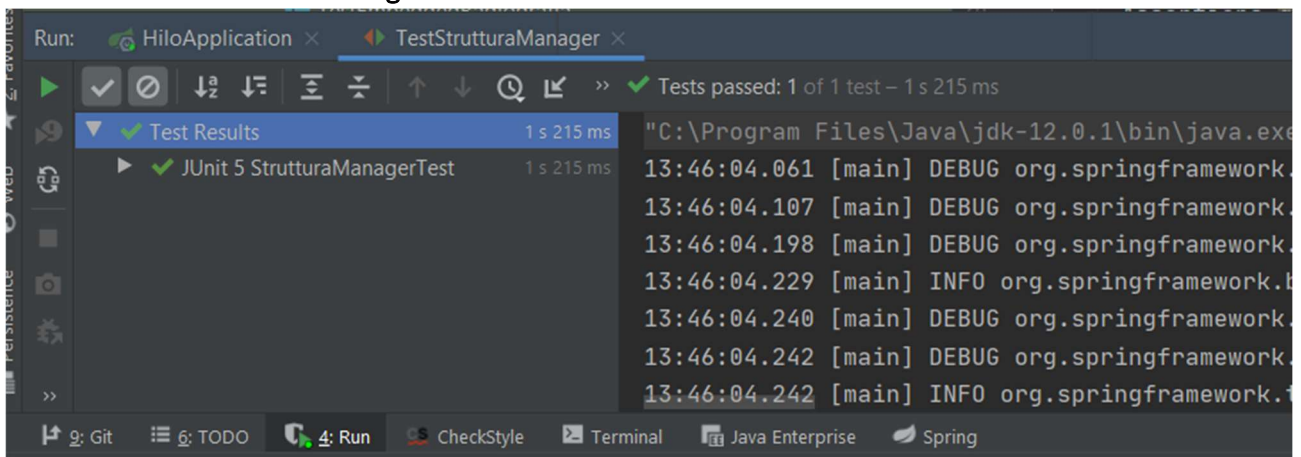
2.2.25. Struttura



```

Tests passed: 1 of 1 test – 350 ms
Test Results
  ✓ JUnit 5 StrutturaTest 350 ms
    "C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
    13:45:32.289 [main] DEBUG org.springframework
    13:45:32.334 [main] DEBUG org.springframework
    13:45:32.435 [main] DEBUG org.springframework
    13:45:32.472 [main] INFO org.springframework
    13:45:32.486 [main] DEBUG org.springframework
    13:45:32.487 [main] DEBUG org.springframework
    13:45:32.493 [main] INFO org.springframework
  
```

2.2.26. StrutturaManager



```

Run: HiloApplication x TestStrutturaManager x
Tests passed: 1 of 1 test – 1 s 215 ms
Test Results
  ✓ JUnit 5 StrutturaManagerTest 1 s 215 ms
    "C:\Program Files\Java\jdk-12.0.1\bin\java.exe"
    13:46:04.061 [main] DEBUG org.springframework
    13:46:04.107 [main] DEBUG org.springframework
    13:46:04.198 [main] DEBUG org.springframework
    13:46:04.229 [main] INFO org.springframework
    13:46:04.240 [main] DEBUG org.springframework
    13:46:04.242 [main] DEBUG org.springframework
    13:46:04.242 [main] INFO org.springframework
  
```

3. Risultati di Junit e Mockito per il controller

Di seguito sono riportati i test per le classi del package controller:

3.1. Features Testate con Junit

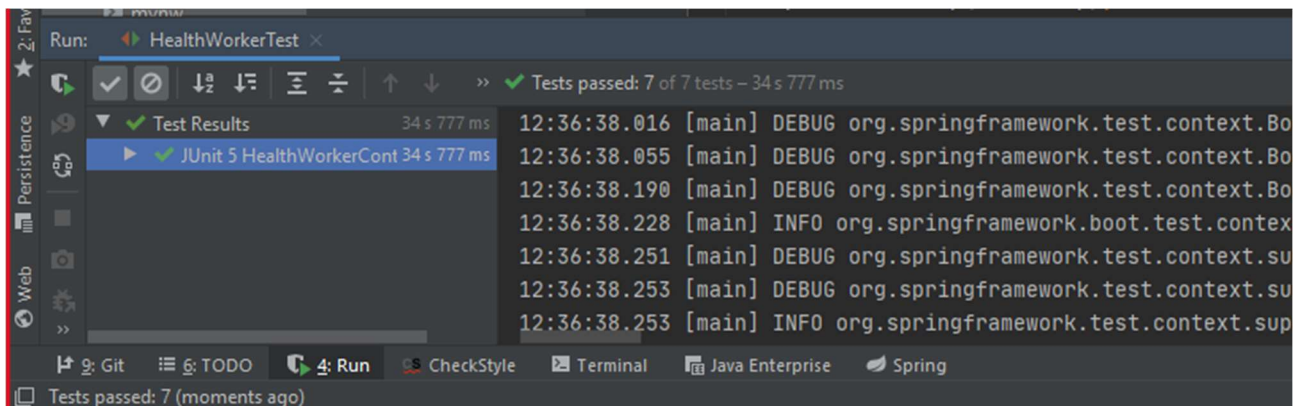
Sono state testate le feature ritenute più importanti per il sistema. Di seguito sono riportate le classi che sono state testate con Junit:

- HealthWorkerController;
- LoginController;
- PatientController;

3.2. Panoramica dei risultati del test delle classi

Di seguito sono elencati i report dell'esecuzione dei test

3.2.1. HealthWorkerController



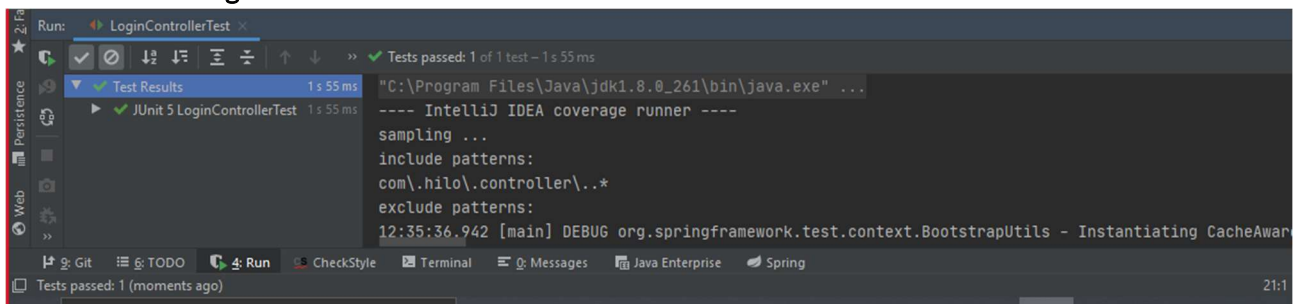
```

Run: HealthWorkerTest
Tests passed: 7 of 7 tests - 34 s 777 ms

Test Results
  JUnit 5 HealthWorkerCont 34 s 777 ms

12:36:38.016 [main] DEBUG org.springframework.test.context.Bo
12:36:38.055 [main] DEBUG org.springframework.test.context.Bo
12:36:38.190 [main] DEBUG org.springframework.test.context.Bo
12:36:38.228 [main] INFO org.springframework.boot.test.context
12:36:38.251 [main] DEBUG org.springframework.test.context.su
12:36:38.253 [main] DEBUG org.springframework.test.context.su
12:36:38.253 [main] INFO org.springframework.test.context.sup
  
```

3.2.2. LoginController



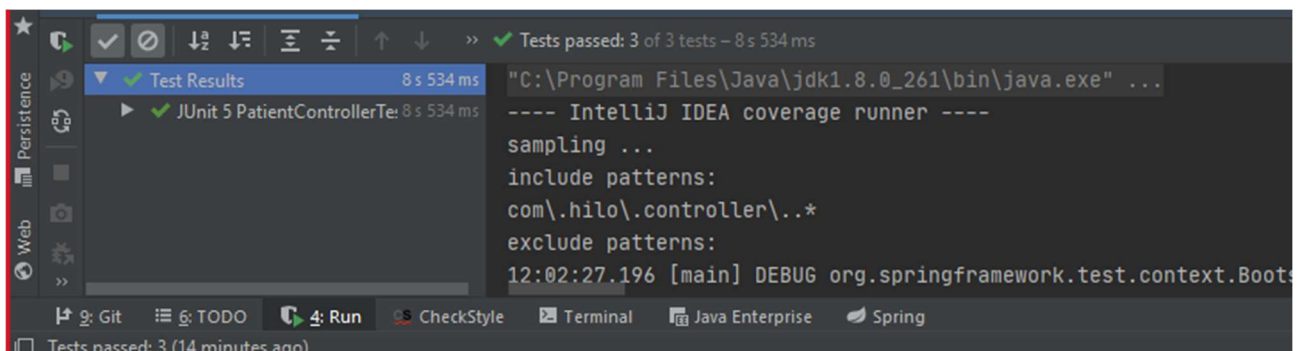
```

Run: LoginControllerTest
Tests passed: 1 of 1 test - 1 s 55 ms

Test Results
  JUnit 5 LoginControllerTest 1 s 55 ms

"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
---- IntelliJ IDEA coverage runner ----
sampling ...
include patterns:
com\.hilo\.controller\.*
exclude patterns:
12:35:36.942 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAware
  
```

3.2.3. PatientController



```

Run: PatientControllerTest
Tests passed: 3 of 3 tests - 8 s 534 ms

Test Results
  JUnit 5 PatientControllerTe 8 s 534 ms

"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
---- IntelliJ IDEA coverage runner ----
sampling ...
include patterns:
com\.hilo\.controller\.*
exclude patterns:
12:02:27.196 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAware
  
```

3.3. Features Testate con Mockito

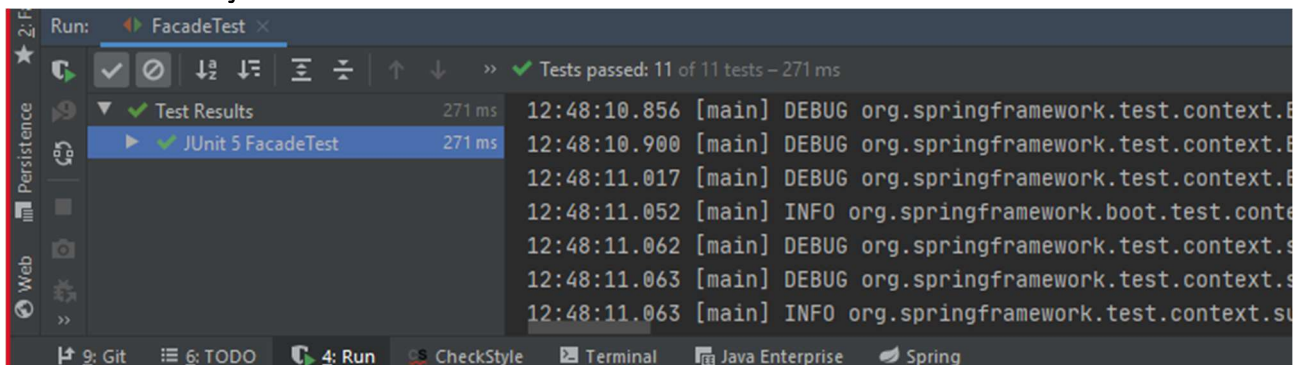
Si è reso necessario testare una classe con Mockito per via della sua gestione delle richieste HTTP e della sessione. Di seguito la classe testata:

- FaçadeController;

3.4. Panoramica dei risultati del test delle classi

Di seguito sono elencati i report dell'esecuzione dei test

3.4.1. FaçadeController



4. Risultati di Katalon per la View

Di seguito sono riportati i test di sistema per le View contenenti JS contenute nella cartella "resources/templates"

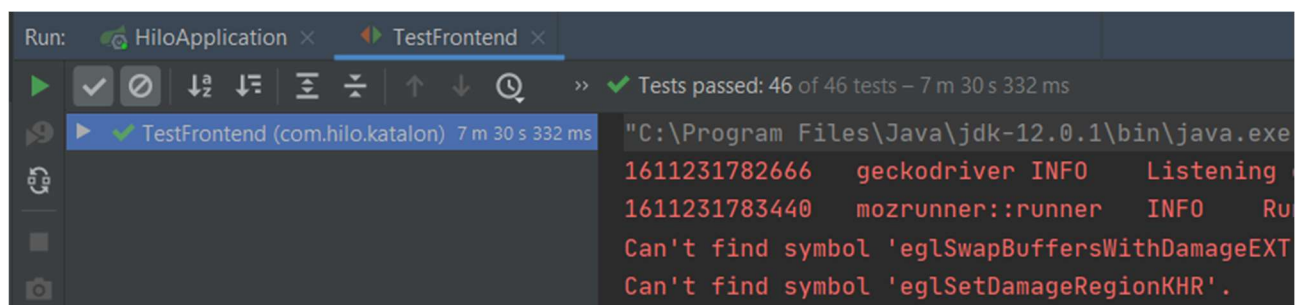
4.1. Features testate

I test che sono stati eseguiti in questa sezione corrispondono a quelli definiti nel TCD, dal momento che definiscono dei test che prevedono un'interazione con l'utente massima, per cui più soggetta a problematiche dovute per esempio ad input errati, click sbagliati, ecc. I test di sistema sono stati eseguiti con Katalon e in particolare sono stati effettuati i seguenti test:

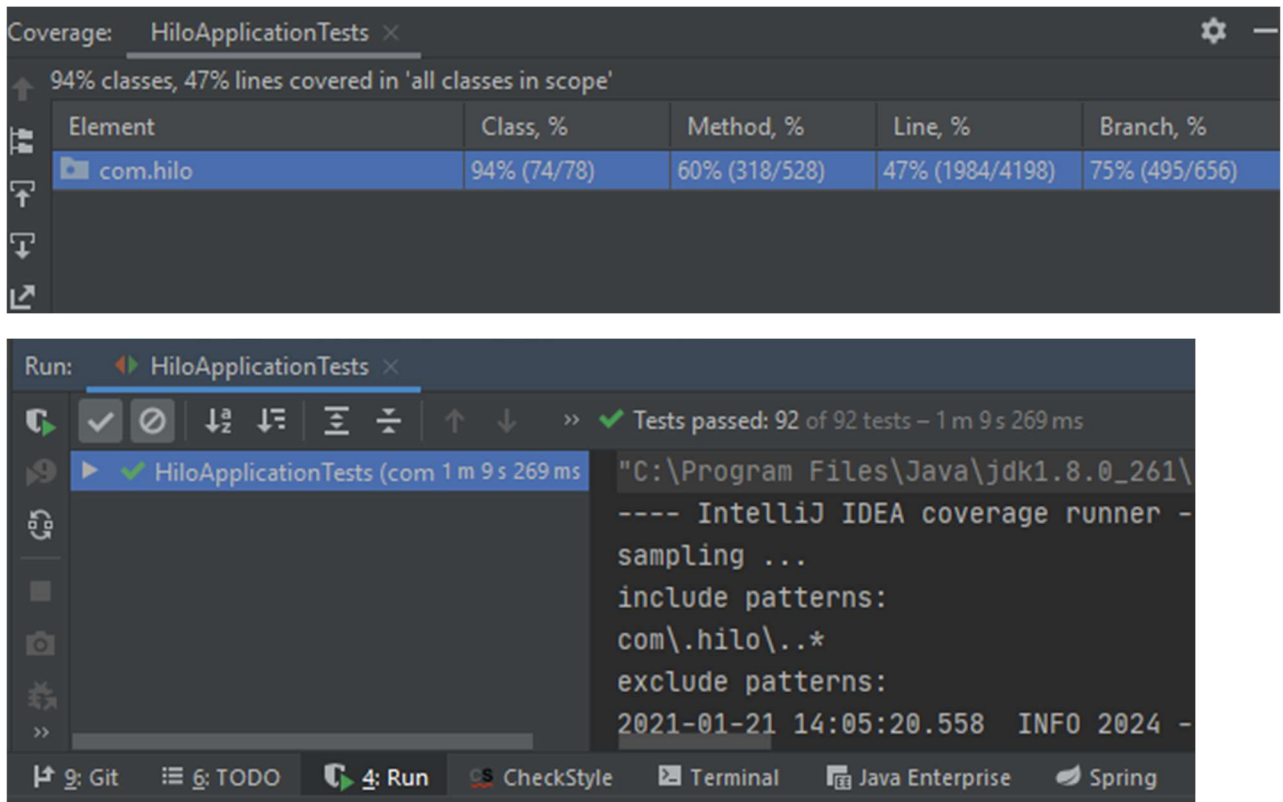
- TC_1;
- TC_2;
- TC_3;
- TC_4;

4.2. Panoramica feature testate

Resoconto totale di tutti e quattro i test case specificati



5. Resoconto Coverage



Coverage: HiloApplicationTests ×

94% classes, 47% lines covered in 'all classes in scope'

Element	Class, %	Method, %	Line, %	Branch, %
com.hilo	94% (74/78)	60% (318/528)	47% (1984/4198)	75% (495/656)

Run: HiloApplicationTests ×

Tests passed: 92 of 92 tests - 1 m 9 s 269 ms

HiloApplicationTests (com 1 m 9 s 269 ms)

```
"C:\Program Files\Java\jdk1.8.0_261\
---- IntelliJ IDEA coverage runner -
sampling ...
include patterns:
com\.hilo\.*
exclude patterns:
2021-01-21 14:05:20.558 INFO 2024 -
```

6. Riepilogo del testing

	Numero componenti testate	Numero errori trovati	Numero errori corretti	Numero componenti non testate
Model	26	3	3	10
Controller	4	6	6	3
View	4	13	13	10

7. Glossario

- “JUnit”, un framework per Java utilizzato al fine di automatizzare il testing;
- “Mockito”, un framework per Java utilizzato per emulare delle componenti di una classe al fine di eseguire il testing;
- “Katalon”, un’estensione web che permette di registrare le azioni da effettuare al fine di automatizzare il testing di sistema;
- “Feature”, funzionalità offerta dal sistema;
- “HTTP”, acronimo di “Hypertext Transfer Protocol” ed è il protocollo standard utilizzato per comunicare in rete;
- “sessione”, ovvero un insieme di richieste HTTP effettuate con un singolo utente in un determinato intervallo di tempo;
- “JS”, acronimo di “JavaScript” ovvero un linguaggio di scripting utilizzato per rendere dinamiche le pagine Web;



- “TCD”, acronimo di “Test Case Document” ovvero il documento nel quale sono presenti le specifiche per effettuare il testing e soprattutto la scelta delle componenti da testare;