



Laurea Triennale in informatica-Università di Salerno  
Corso di Ingegneria del Software- Prof.ssa F. Ferrucci, Prof. F. Palomba



# Test Summary Report (TSR)

## Progetto Chemo

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## Revision History

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## Test Summary Report (TSR) del Progetto Chemo

### 1. Introduzione

Il sistema Chemo ha come obiettivo principale la digitalizzazione del processo di schedulazione delle terapie chemioterapiche presso il reparto di Oncologia dell’Ospedale San Giovanni di Dio e Ruggi D’Aragona, favorendo la riduzione dello spreco dei medicinali.

Attraverso una piattaforma online il medico potrà creare un profilo per ogni nuovo paziente del reparto e assegnare a quest’ultimo una specifica terapia; il medico potrà inoltre richiedere la creazione di una nuova schedulazione, selezionando in un apposito form tutti i pazienti per cui si rende necessaria una seduta.

L’utilità del Test Summary Report consiste nel raccogliere le informazioni principali risultanti dall’esecuzione del testing di unità e di sistema. In particolare, vengono raccolti i dati relativi ai test falliti ed eseguiti con successo.

Sono state pianificate attività di testing per le seguenti funzionalità:

- Creazione nuovo paziente;
- Modifica paziente;
- Completamento paziente;
- Inserimento medicinale;
- Creazione nuovo schedule.

### 2. Relazione con altri documenti

Sono riportati di seguito le relazioni tra il TSR – Test Summary Report – e gli altri documenti di testing:

- Relazione con TP – Test Plan: il TSR fa riferimento alle attività specificate nel TP;
- Relazione con TCS – Test Case Specification: il TSR contiene l’esecuzione dei test di sistema specificati nel TCS;
- Relazione con TIR – Test Incident Report: il TSR contiene il sunto dei risultati sull’esecuzione specificati nel TIR.



## 3. Testing di unità ed integrazione

Riportiamo di seguito i risultati per tutti i testing di unità effettuati nel sistema, con riferimento alla repository GitHub: <https://github.com/Claudiabuono/Chemo>

### 3.1 Creazione profilo paziente

#### 3.1.1 TC\_UC\_PM\_01\_2

```
//TC_UC_PM_01_2
@Test
public void testPatientCreationWithIncorrectNameLength() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy" ).parse( source: "21/06/1984" );
        ObjectId id = new ObjectId();
        when( patientBean.getPatientId() ).thenReturn( String.valueOf( id ) );
        when( patientBean.getTaxCode() ).thenReturn( "RS5MRAC4H21F8R9S" );
        when( patientBean.getName() ).thenReturn( "" );
        when( patientBean.getSurname() ).thenReturn( "Rossi" );
        when( patientBean.getBirthDate() ).thenReturn( birthDate );
        when( patientBean.getCity() ).thenReturn( "Napoli" );
        when( patientBean.getPhoneNumber() ).thenReturn( "3933358960" );
        when( patientBean.getStatus() ).thenReturn( true );
        when( patientBean.getNotes() ).thenReturn( "Allergia ad alcuni farmaci" );
        assertEquals( expected: false, patientQueryBean.insertDocument( patientBean ) );
        patientQueryBean.deleteDocument( "_id", patientBean.getPatientId() );
    } catch (ParseException e) {
        throw new RuntimeException( e );
    }
}
```



### 3.1.2 TC\_UC\_PM\_01\_3

```
//TC_UC_PM_01_3
@Test
public void testPatientCreationWithIncorrectSurnameLength() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "21/06/1984");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("RS5MRAC4H21F8R9S");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("Napoli");
        when(patientBean.getPhoneNumber()).thenReturn("3933358960");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: false, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```

### 3.1.2 TC\_UC\_PM\_01\_5

```
//TC_UC_PM_01_5
@Test
public void testPatientCreationWithIncorrectBirthDate() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "30/05/2025");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("RS5MRAC4H21F8R9S");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("Rossi");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("Napoli");
        when(patientBean.getPhoneNumber()).thenReturn("3933358960");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: false, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```



### 3.1.3 TC\_UC\_PM\_01\_7

```
//TC_UC_PM_01_7
@Test
public void testPatientCreationWithIncorrectCityLength() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "21/06/1984");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("RS5MRAC4H21F8R9S");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("Rossi");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("");
        when(patientBean.getPhoneNumber()).thenReturn("3933358960");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: false, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```

### 3.1.4 TC\_UC\_PM\_01\_9

```
//TC_UC_PM_01_9
@Test
public void testPatientCreationWithIncorrectTaxCodeLength() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "21/06/1984");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("Rossi");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("Napoli");
        when(patientBean.getPhoneNumber()).thenReturn("3933358960");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: false, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```



### 3.1.5 TC\_UC\_PM\_01\_11

```
//TC_UC_PM_01_11
@Test
public void testPatientCreationWithIncorrectPhoneNumberLength() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "21/06/1984");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("RS5MRAC4H21F8R9S");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("Rossi");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("Napoli");
        when(patientBean.getPhoneNumber()).thenReturn("");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: false, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e){
        throw new RuntimeException(e);
    }
}
```

### 3.1.6 TC\_UC\_PM\_01\_15

```
//TC_UC_PM_01_15
@Test
public void testPatientCreationWithCorrectInput() {
    try {
        Date birthDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "21/06/1984");
        ObjectId id = new ObjectId();
        when(patientBean.getPatientId()).thenReturn(String.valueOf(id));
        when(patientBean.getTaxCode()).thenReturn("RS5MRAC4H21F8R9S");
        when(patientBean.getName()).thenReturn("Mario");
        when(patientBean.getSurname()).thenReturn("Rossi");
        when(patientBean.getBirthDate()).thenReturn(birthDate);
        when(patientBean.getCity()).thenReturn("Napoli");
        when(patientBean.getPhoneNumber()).thenReturn("3933358960");
        when(patientBean.getStatus()).thenReturn(true);
        when(patientBean.getNotes()).thenReturn("Allergia ad alcuni farmaci");
        assertEquals( expected: true, patientQueryBean.insertDocument(patientBean));
        patientQueryBean.deleteDocument("_id", patientBean.getPatientId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```



### 3.2 Modifica cartella clinica paziente

#### 3.2.1 TC\_UC\_PM\_05\_3

```
//TC_UC_PM_05_3
@Test
public void testUpdatePatientWithIncorrectConditionLength(){
    assertEquals( expected: false, patientQueryBean.updateDocument( id: "_id", valid: "63de1815d74b4d04cf039760", key: "condition", valKey: ""));
}
```

#### 3.2.2 TC\_UC\_PM\_05\_7

```
//TC_UC_PM_05_7
@Test
public void testUpdatePatientWithIncorrectTherapyDose(){
    assertEquals( expected: false, patientQueryBean.updateDocument( id: "_id", valid: "63de1815d74b4d04cf039760", key: "dose", valKey: 0));
}
```

#### 3.2.3 TC\_UC\_PM\_05\_8

```
//TC_UC_PM_05_8
@Test
public void testUpdatePatientWithIncorrectTherapySession(){
    assertEquals( expected: true, patientQueryBean.updateDocument( id: "_id", valid: "63de1815d74b4d04cf039760", key: "session", valKey: 0));
}
```

#### 3.2.4 TC\_UC\_PM\_05\_9

```
//TC_UC_PM_05_9
@Test
public void testUpdatePatientWithIncorrectTherapyDuration(){
    assertEquals( expected: false, patientQueryBean.updateDocument( id: "_id", valid: "63de1815d74b4d04cf039760", key: "duration", valKey: 0));
}
```

#### 3.2.5 TC\_UC\_PM\_05\_10

```
//TC_UC_PM_05_10
@Test
public void testUpdatePatientWithIncorrectTherapyFrequency(){
    assertEquals( expected: false, patientQueryBean.updateDocument( id: "_id", valid: "63de1815d74b4d04cf039760", key: "frequency", valKey: 0));
}
```



### 3.3 Completamento profilo paziente

#### 3.3.1 TC\_UC\_PM\_05\_10

```
//TC_UC_PM_05_10
@Test
public void testCorrectCompletePatientProfile(){
    therapyMedicineBean = new TherapyMedicineBean();
    meds = new ArrayList<>();
    meds.add(therapyMedicineBean);
    when(therapyBean.getSessions()).thenReturn(10);
    when(therapyBean.getMedicines()).thenReturn(meds);
    when(therapyBean.getDuration()).thenReturn(60);
    when(therapyBean.getFrequency()).thenReturn(2);
    assertEquals( expected: true, patientQueryBean.insertDocument(therapyBean, patientId: "63dd3eac74c697331b1f019a"));
    assertEquals( expected: true, patientQueryBean.updateDocument( id: "_id", valid: "63dd3eac74c697331b1f019a", key: "condition", valKey: "Tumore al cervello"));
}
```

#### 3.3.2 TC\_UC\_PM\_05\_3

```
//TC_UC_PM_05_3
@Test
public void testIncorrectConditionLength(){
    therapyMedicineBean = new TherapyMedicineBean();
    meds = new ArrayList<>();
    meds.add(therapyMedicineBean);
    when(therapyBean.getSessions()).thenReturn(10);
    when(therapyBean.getMedicines()).thenReturn(meds);
    when(therapyBean.getDuration()).thenReturn(60);
    when(therapyBean.getFrequency()).thenReturn(2);
    assertEquals( expected: true, patientQueryBean.insertDocument(therapyBean, patientId: "63dd3eac74c697331b1f019a"));
    assertEquals( expected: false, patientQueryBean.updateDocument( id: "_id", valid: "63dd3eac74c697331b1f019a", key: "condition", valKey: ""));
}
```

#### 3.3.3 TC\_UC\_PM\_05\_8

```
//TC_UC_PM_05_8
@Test
public void testIncorrectSession(){
    therapyMedicineBean = new TherapyMedicineBean();
    meds = new ArrayList<>();
    meds.add(therapyMedicineBean);
    when(therapyBean.getSessions()).thenReturn(0);
    when(therapyBean.getMedicines()).thenReturn(meds);
    when(therapyBean.getDuration()).thenReturn(60);
    when(therapyBean.getFrequency()).thenReturn(2);
    System.out.println(therapyBean);
    assertEquals( expected: false, patientQueryBean.insertDocument(therapyBean, patientId: "63dd3eac74c697331b1f019a"));
    assertEquals( expected: true, patientQueryBean.updateDocument( id: "_id", valid: "63dd3eac74c697331b1f019a", key: "condition", valKey: "Tumore al cervello"));
}
```



### 3.3.4 TC\_UC\_PM\_05\_9

```
//TC_UC_PM_05_9
@Test
public void testIncorrectDuration(){
    therapyMedicineBean = new TherapyMedicineBean();
    meds = new ArrayList<>();
    meds.add(therapyMedicineBean);
    when(therapyBean.getSessions()).thenReturn(10);
    when(therapyBean.getMedicines()).thenReturn(meds);
    when(therapyBean.getDuration()).thenReturn(0);
    when(therapyBean.getFrequency()).thenReturn(2);
    assertEquals( expected: false, patientQueryBean.insertDocument(therapyBean, patientId: "63dd3eac74c697331b1f019a"));
    assertEquals( expected: true, patientQueryBean.updateDocument( id: "_id", valid: "63dd3eac74c697331b1f019a", key: "condition", valKey: "Tumore al cervello"));
}
```

### 3.3.5 TC\_UC\_PM\_05\_10

```
//TC_UC_PM_05_10
@Test
public void testIncorrectFrequency(){
    therapyMedicineBean = new TherapyMedicineBean();
    meds = new ArrayList<>();
    meds.add(therapyMedicineBean);
    when(therapyBean.getSessions()).thenReturn(10);
    when(therapyBean.getMedicines()).thenReturn(meds);
    when(therapyBean.getDuration()).thenReturn(60);
    when(therapyBean.getFrequency()).thenReturn(0);
    assertEquals( expected: false, patientQueryBean.insertDocument(therapyBean, patientId: "63dd3eac74c697331b1f019a"));
    assertEquals( expected: true, patientQueryBean.updateDocument( id: "_id", valid: "63dd3eac74c697331b1f019a", key: "condition", valKey: "Tumore al cervello"));
}
```

## 3.4 Inserimento medicinale

### 3.4.1 TC\_UC\_PM\_03\_6

```
//TC_UC_PM_03_6
@Test
public void testAddCorrectMedicine(){
    ObjectId id = new ObjectId();
    when(medicineBean.getId()).thenReturn(String.valueOf(id));
    when(medicineBean.getName()).thenReturn("Dexorubicina");
    when(medicineBean.getIngredients()).thenReturn("Doxorubicina cloridrato");
    when(medicineBean.getAmount()).thenReturn(5);
    when(medicineBean.getPackages()).thenReturn(null);
    assertEquals( expected: true, medicineQueryBean.insertDocument(medicineBean));
    medicineQueryBean.deleteDocument("_id", String.valueOf(id));
}
```



### 3.5 Schedulazione terapie

#### 3.5.1 TC\_UC\_PM\_03\_1

```
//TC_UC_PM_03_1
@Test
public void testCreateScheduleWithNoAppointments(){
    try {
        Date startDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "04/02/2023");
        Date endDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "11/02/2023");
        appointmentBean = new AppointmentBean();
        appointments = new ArrayList<>();
        ObjectId id = new ObjectId();
        when(plannerBean.getId()).thenReturn(String.valueOf(id));
        when(plannerBean.getStartDate()).thenReturn(startDate);
        when(plannerBean.getEndDate()).thenReturn(endDate);
        when(plannerBean.getAppointments()).thenReturn(appointments);
        assertEquals( expected: false, plannerQueryBean.insertDocument(plannerBean));
        plannerQueryBean.deleteDocument( chiave: "_id", plannerBean.getId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```

#### 3.5.2 TC\_UC\_PM\_03\_2

```
//TC_UC_PM_03_2
@Test
public void testCreateCorrectNewSchedule(){
    try {
        Date startDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "04/02/2023");
        Date endDate = new SimpleDateFormat( pattern: "dd/MM/yyyy").parse( source: "11/02/2023");
        appointmentBean = new AppointmentBean();
        appointments = new ArrayList<>();
        appointments.add(appointmentBean);
        ObjectId id = new ObjectId();
        when(plannerBean.getId()).thenReturn(String.valueOf(id));
        when(plannerBean.getStartDate()).thenReturn(startDate);
        when(plannerBean.getEndDate()).thenReturn(endDate);
        when(plannerBean.getAppointments()).thenReturn(appointments);
        assertEquals( expected: true, plannerQueryBean.insertDocument(plannerBean));
        plannerQueryBean.deleteDocument( chiave: "_id", plannerBean.getId());
    } catch (ParseException e) {
        throw new RuntimeException(e);
    }
}
```



## 4. Testing di sistema

Per effettuare il testing di sistema è stato creato, per ogni test case definito nel documento di TCS, utilizzando il tool Katalon Recorder per Chrome. Nello specifico, è stata generata una test suite per ogni test case.

Riportiamo, di seguito, i risultati ottenuti nell'esecuzione dei test

Esecuzione	Num Fallimenti	Num Successi
Esecuzione 1 11/02/2023	0	29

### 4.1 Inserimento medicinale

Command	Target	Value
open	http://localhost:8080/Chemo/index.jsp	
click	link=Accedi	
open	http://localhost:8080/Chemo/login.jsp	
click	id=username	
type	id=username	CarlaBianchi
click	id=password	
type	id=password	CarlaBianchi
click	name=submit	
open	http://localhost:8080/Chemo/dashboard.jsp	
click	xpath=//normalize-space(text()) and normalize-space()='Benvenuto, Carl a! [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z]	
open	http://localhost:8080/Chemo/addMedicines.jsp	
click	id=name	
type	id=name	piracetamolo
click	id=ingredients	
type	id=ingredients	piracetamolo
click	xpath=//input[@value='Aggiungi medicina!']	
assertText	id=nameValidity	Il formato è errato



## 4.2 Schedulazione terapie

Command	Target	Value
click	name=submit	
click	xpath=normalize-space(text()) and normalize-space(.)=Medicinali[1]/following-sibling::svg[1]	
click	xpath=/div[@id='patient-check-id']/label/span	
click	xpath=/div[3]/div/div[2]/label/span	
click	xpath=/div[3]/div/div[2]/label/span	
click	xpath=/input[@value='Crea calendario']	
assertTitle	Chemo   Calendario	

Passed: 2 Failed: 0

## 4.3 Completamento profilo paziente

Command	Target	Value
open	http://localhost:8888/Chemo/index.php	
click	link=Accedi	
open	http://localhost:8888/Chemo/login.php	
click	id=username	
type	id=password	password
click	name=submit	
open	http://localhost:8888/Chemo/dashboard.php	
click	xpath=/ul[@id='patient-list-ul']/li/a	
open	http://localhost:8888/Chemo/patientedit.php	
click	name=submit	



#### 4.4 Modifica cartella clinica paziente

The screenshot shows the Katalon Recorder interface. On the left, the workspace tree shows a suite named "test sistema modifica cartella" containing several test cases, with "TC\_UC\_PM\_05\_3" selected. The status bar indicates 8 passed and 0 failed tests. On the right, the details view for "TC\_UC\_PM\_05\_3" displays the test steps in a table:

Command	Target	Value
click	xpath=("//normalize-space(text()) and normalize-space(.)='tumore al fegato')[1]/following::div[2]	
open	http://localhost:8080/Chemo/PatientServlet?id=63b6afc4938c69a8a227460	
click	id=edit-therapy-button	
click	id=condition	
type	id=condition	"Patologia di 256 caratteri"
click	id=save-therapy-button	
click	id=condition-validity	
assertText	id=condition-validity	Formato errato
click	xpath=("//normalize-space(text()) and normalize-space(.)='Scheda paziente')[1]/following::*[name()='svg'][2]	
open	http://localhost:8080/Chemo/index.jsp	

#### 4.5 Creazione profilo paziente

The screenshot shows the Katalon Recorder interface. On the left, the workspace tree shows a suite named "Creazione profilo paziente" containing several test cases, with "TC\_UC\_PM\_01\_1" selected. The status bar indicates 8 passed and 0 failed tests. On the right, the details view for "TC\_UC\_PM\_01\_1" displays the test steps in a table:

Command	Target	Value
click	link=Acedi	
open	http://localhost:8080/chemo/login.jsp	
click	id=username	
type	id=username	RosaRossi
click	id=password	
type	id=password	RosaRossi
click	name=submit	
open	http://localhost:8080/chemo/dashboard.jsp	
click	id=add-patient-link	